हरियाणा राज्य औद्योगिक
एवं संरचना विकास
निगम लिमिटेड
Corporate Identity Number :
U29199HR1967SGC034545

Haryana State Industrial &
Infrastructure Development
Corporation Ltd.
IMT Kharkhoda
Telefax : 0130-2550100
Email : imtkharkhoda@gmail.com

(A State Government Undertaking)

No. HSIIDC: IA:KH: 383
Dated 29/05/2020

To,
The Director – IA.III,
Ministry of Environment, Forest & Climate Change,
Indira Paryavaran Bhawan,
Lodhi Road, Jor Bagh,
New Delhi-110003

Sub: Regarding Environment Clearance of Development of Industrial Model Township at Kharkhoda, District Sonepat, Haryana by M/s Haryana State Industrial & Infrastructure Development Corporation Ltd. (HSIIDC).

Ref: 225th EAC (Infra-1) meeting held on 22nd Oct., 19 (Agenda Item No. 3.2), Proposal No.-IA/HR/NCP/62795/2017

Dear Sir,

With reference to the above subjected project we would like to inform that the observations sought by Expert Appraisal Committee (EAC) during the 225th EAC (Infra-1) meeting held on 22nd October, 2019 has been arranged.

Now, we are herewith submitting the query reply for the above said project and earnestly request you to kindly consider our project and include the same in upcoming agenda meeting for further processing of Environment Clearance.

I hope that you will accede to our request.

Thanking you,

Yours faithfully,
For, Hr. State Indl.& Infra. Dev. Corpn. Ltd.

AKgarg
Asstt. Gen. Manager (IA)
HSIIDC, IMT Kharkhoda

Name: Arun Kumar Garg
Designation: Asstt. General Manager (IA)

Encl.: As above

REPLY TO THE QUERIES RAISED DURING 225TH EAC MEETING HELD ON DATED 22.10.2019 FOR INDUSTRIAL MODEL TOWNSHIP AT KHARKHODA, SONEPAT, HARYANA BY M/S HARYANA STATE INDUSTRIAL & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. (HSIIDC)

S.No.	Queries raised during EAC meeting	Reply
1.	EIA/EMP prepared following the generic structure strictly as per EIA Notification, 2006 as amended from time to time. EIA report should include the Social Impact Assessment and R & R Plan	We prepared EIA/EMP following the generic structure as per EIA Notification, 2006 as amended from time to time. Social Impact Assessment and R & R plan are included in Chapter 3 of EIA report.
2.	The Disclosure of Consultant section in the EAI/EMP should specifically mention that this particular EIA/EMP report has been prepared by the EIA Consultant.	Disclosure of Consultant is as Chapter 12 of EIA report.
3.	Submit the revised layout plan, to avoid the marble Industries and other polluting industries near Institutional and Aabadi areas.	Revised Layout Plan is attached as **Annexure-XII.**
4.	For prediction of Air quality, all possible emissions with respect to categories of Industries planned zone wise along with area earmarked should be covered.	Prediction of all possible emissions are included in chapter 4 of EIA.
5.	Submit action plan for proposed mitigation measures within the premises of Industrial Model Township to bring down the air quality parameters	Mitigation measures to bring down the air quality are included in Chapter 4 of EIA.
6.	Submit Layout Plan (map) depicting information about disposal site for solid waste and Hazardous waste to be generated from the industries to be housed within the proposed Industrial Model Township.	Revised Layout Plan sowing solid waste and Hazardous waste disposal site within the IMT, Kharkhoda is attached as **Annexure-XII.**
7.	Submit the land use plan of proposed Industrial Model Township.	Land use plan of IMP is given in Chapter 2 of EIA report.
8.	Proponent has mentioned that out of total 87.275 MLD of water requirement, 65 MLD water will be met through Western Yamuna Canal of Irrigation Department. Proponent has to provide information about the source for getting the rest of the water to be used for this project. Ground Water shall not be used in any case.	The revised water requirement is 92.6 MLD. Out of 92.6 MLD, 52 MLD fresh water will be met through Western Yamuna Canal of Irrigation Department. We will not extract ground water without CGWA permission.

Asstt. Gen. Manager (IA)
HSIIDC, IMT Kharkhoda

9.	Submit the detailed design of CETP with discharge parameters for the proposed project.	Detailed design of CETP with discharge parameters is attached as **Annexure-XIX.**
10.	Appropriate mitigation measures to be taken in respect of activities to be undertaken within the proposed Industrial Model Township so that the water quality of Yamuna river and ground water is not affected.	Waste water will not be discharged to Yamuna River. Surface water quality and ground water quality will not be affected. Treated water will be recycled and reuse. It will be zero discharge IMT. Mitigation measures will be taken. Mitigation measures given in Chapter 4 of EIA Report. However, in case of surplus effluent, the same will be disposed off, duly treated in CETP of 64 MLD as per norms of Central Pollution Control Board (CPCB)/Haryana Pollution Control Board (HSPCB), in Thana-Kalan drain which is adjacent to the project area. The Thana-Kalan drain ultimately terminate into Mungeshpur drain.
11.	Establish the Environmental Monitoring Cell as stipulated while granting earlier Environmental Clearance to the same proponent, M/s HSIIDC Ltd. For development of other Industrial parks/areas. A team of qualified Environmental Professionals should be appointed for this purpose.	Environmental Monitoring Cell will be established by HSIIDC. EMC Structure is given in chapter 9.
12.	Revised EIA/EMP report to address all the issues raised in the Public Hearing.	All the issues raised during Public hearing are covered in EIA report.
13.	Submit undertaking that compensation shall be given as per Land Acquisition, Rehabilitation and Resettlement Act (LARR), 2013 or Acts/Notifications issued by the Government of Haryana.	Undertaking for the compensation is attached as **Annexure-XX.**

Yours truly,

For M/s Hr. State Indl. & Infra. Dev. Corpn. Ltd.

Asstt. Gen. Manager (IA)
HSIIDC, IMT Kharkhoda
Name: Arun Kumar Garg
Designation: Asstt. General Manager (IA)

REVISED ENVIRONMENT IMPACT ASSESSMENT REPORT

OF

Industrial Model Township Project

At

Kharkhoda, Sonepat, Haryana

FOR

M/s HARYANA STATE INDUSTRIAL & INFRASTRUCTURE DEVLOPMENT CORPORATION Ltd.

GRASS ROOTS RESEARCH & CREATION INDIA (P) LTD.
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(Recognized by MoEF&CC, GoI /Accredited by NABL)
A unit of GRC India

TABLE OF CONTENTS

LIST OF ANNEXURES

Annexure No.	Particulars
I(a)	ToR letter from MoEF
I(b)	Landuse Map
II	Land Acquisition Details
III	R & R policy
IV	Socio economic report
V	Resettlement and Rehabilitation Plan
VI	Landscape Plan
VII	Types of Industries
VIII	Water Permission
IX	Permission Yamuna Canal
X	Details of construction material
XI (a)	Google image showing site and surrounding 500 m
XI (b)	Toposheet image showing site and surrounding 5km
XI (c)	Toposheet image showing site and surrounding 10km
XII	Layout Plan
XIII	Contour Plan
XIV (a, b)	Details of Public Hearing
XV	List of Industries
XVI	Traffic Study
XVII	Ground Water Rejuvenation Plan
XVIII	Rain Water Harvesting Pit Plan
XIX	Detailed Design of CETP
XX	Undertaking for the compensation

CHAPTER-1

INTRODUCTION

1.0 INTRODUCTION

Environmental Impact Assessment (EIA) is a process of identifying, predicting, evaluating and mitigating the biophysical, social and other relevant effects of developmental proposals prior to major decisions being taken. This chapter provides general information pertaining to purpose of the report, identification of project and project proponent. It also includes scope of study as well as regulatory scoping and organization of the report.

1.1 PURPOSE OF THE REPORT

The purpose of EIA/EMP report is to reduce and minimize undesirable or negative impacts and enhance the positive impacts due to the project activities. This is achieved by conducting EIA study through by analysis of various environmental issues related to the project activities. Every anthropogenic activity has some impact on the environment. There is a need to harmonise developmental activities with the environmental concerns, so that relevant environment issues could be addressed in consonance with both social and economic development.

Environmental Impact Assessment (EIA) is one of the tools available with the planners to achieve the above-mentioned goal. It is desirable to ensure that the development options under consideration shall be sustainable. In doing so, environmental consequences must be characterized early in the project cycle and shall account for the project design. The objective of EIA is, thus, to foresee the potential environmental impacts at planning and design stage. The EIA process should then allow for the communication of this information to:

(a) The project proponent;

(b) The regulatory agencies;

(c) All stakeholders and interested groups.

EIA integrates the environmental concerns in the developmental activities right at the time of initiating for preparing the feasibility report. In doing so, it facilitates integration of

environmental concerns and mitigation measures in project development. Hence, major aims of EIA are:

- To anticipate and avoid, minimize or offset the adverse significant biophysical, social and other relevant effects of developmental proposals.
- To protect the productivity and capacity of natural systems and the ecological processes which maintain their functions
- To promote development that is sustainable and optimizes resource use and management opportunities.

This report has been prepared as per the EIA Notification, 2006 & its amendments, EIA Guidance Manual for Industrial Estates projects as guiding documents. It is based on the Terms of Reference (ToR) approved by the MoEF&CC and additional ToR points suggested by them MoEF&CCvide letter no. F.No.21-237/2017-IA.III dated 23rd August, 2017 & 225th EAC meeting MOM dated 22th October 2019.

1.2 GENERAL INFORMATION ON PROJECT

Project site is located at Tehsil Kharkhoda, District Sonepat, Haryana. Project site is spread over 3217.19 acres area. This Industrial Estate is going to be developed as an industrial hub including integrated sites for Industrial, Commercial & Institutional areas along with adjoining residential areas for operational convenience &promoting walk-to-work culture. This Industrial Estate will be developed over 3217.19 acres at the estimated cost of 4000 crores to promote non-polluting industrial units. The project is being developed on priority to meet the demand of industrial units.

1.2.1 Project proponent

IMT Kharkhoda will be established by HSIIDC. HSIIDC established in 1967, HSIIDC is a Public Limited Company wholly owned by the Government of Haryana, set up as a catalyst for promoting and accelerating the pace of industrialization in the state.

The corporation provides a wide spectrum of financial services under one roof- the concept being "Total Financial Support" for its clientele. Being an intrinsically customer - oriented

organization, HSIIDC has often gone beyond the call of duty in helping to give concrete shape to the destiny and vision of thousands of entrepreneurs. HSIIDC is proposing to provide the infrastructure facilities in the form of construction of roads along with its allied works i.e. foot path, laying of public health services comprising water supply distribution network including OHSR, UGR, sewerage system, drainage network, laying of wastewater distribution system, laying of external electrification network, street lights, construction of CETP & Rain water harvesting system etc.

1.2.2 Type of Industries to come up in Industrial Estate

The project envisages the establishment of mainly pollution free industries based on advanced technologies. The spectrum of industries which are expected to come up in the Industrial Estate at Kharkhoda, Haryana, would comprise the following:

S. No.	Industries Proposed at ToR Stage	The type of industries, on the basis of which ToR was issued for project, has been slightly modified. We are now, proposing lesser polluting industries.
1.	• Food & Beverage, • Metal Products, • General Metal Textiles, • Chemical & Chemical Products, Automobile, • Rubber & Plastics Products, • Non-Metallic Materials, • Machinery & Equipment,	• CETP (Category B as per EIA Notification, 2006), • Food Industry, • Printing & Packaging Industries, • Textile and Garments Industry • Automobiles manufacturing (Integrated facilities), • Plastic Industry • Electrical & Electronics Industry • IT & ITES, • Footwear Industry • General Engineering Industry • Commercial, Group Housing for Industrial labours/ workers, Institutional & Hospital • Building (Category B as per EIA Notification, 2006)

1.3 ENVIRONMENTAL CLEARANCE PROCESS

As per EIA Notification, 2006, Environment clearances are required for the following:

Industrial estates	If at least one industry in the industrial estate falls under the category A, entire industrial area shall be treated as category A, irrespective of the area. Industrial estates with area greater than 500 ha. and housing at least one category B industry.	Industrial estates housing at least one category B industry and area <500 ha. Industrial estates of area> 500 ha. and not housing any industry belonging to category Aor B.	Special condition shall apply Note: Industrial Estate of area below 500 ha. and not housing any industry of category A or B does not require clearance.

The application for Environmental clearance shall comprise submission of Form I and Pre-Feasibility Report with suggested ToR. The EIA/EMP report shall be prepared based on ToR conveyed to the applicant by the Expert Appraisal Committee or State Level Expert Appraisal Committee. The EIA/EMP report has to be then submitted to the Regional State Pollution Control Board (SPCB). The SPCB will then conduct a public hearing as per the procedure laid down in EIA Notification 2006 and its amendments. The questions raised during by the public will form the part of the EMP. The inclusion of these public hearing proceedings and revised EMP will form the final EIA/EMP report. The final EIA/EMP will be submitted to the EAC for appraisal and due recommendation and suggestions. Following the appraisal of the project to the satisfaction of the EAC/SEAC/SEIAA, Environmental Clearance shall be granted.

Since the project area is 1301.95 hectares the project attracts the provisions of the EIA Notification, 2006 and requires prior environmental clearance from the MoEF&CC. The report is prepared based on the ToR conveyed to the applicant and environmental data collected at study area including project site during the post monsoon period from October-December 2017.

1.4 VALIDITY & TRANSFERABILITY OF ENVIRONMENTAL CLEARANCE

Usually validity period of Environment Clearance will be 7 years from the date of issuing Environmental Clearance. A prior Environment Clearance issued to a project proponent can be transferred to another legal person entitled to undertake the project, upon application by the transferor to the concerned authority and validity period transferred to the new legally entitled person to undertake the project.

1.5 POST ENVIRONMENT CLEARANCE MONITORING

The MoEF&CC, GoI will monitor and take appropriate action under the Environment Protection Act, 1986.

- In respect of Category 'A' projects, it will be mandatory for the project proponent to make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by advertising it at least in two local newspapers of the district/state and this will also be displayed in the Project proponent website permanently.

- In respect of Category 'B' projects, the project proponent have to advertise in the newspapers indicating that the project has been accorded Environment Clearance and the details of MoEF&CC website where it is displayed.
- Copies of Environment Clearance will be submitted by the project proponents to the Head of the local bodies, Panchayats and Municipal Bodies.

Along with this project proponent is required to submit six monthly compliance reports with respect to the stipulated terms and conditions of the environmental clearance in hard and soft copies to the concerned regulatory authority on 1st June and 1st December of each calendar year.

1.6 GENERIC STRUCTURE OF ENVIRONMENT IMPACT ASSESSMENT

This EIA/EMP Report is based on the primary data generated and secondary data collected in the vicinity of the project. The present report contains compilation of data collected/ generated as well as data collation and its interpretation with regulatory guidelines. Generic structure of the present report includes following chapters in nutshell:

Chapter 1: Introduction

This chapter provides general information pertaining to purpose of the report, identification of project and project proponent. It also includes scope of study as well as regulatory scoping and organization of the report.

Chapter 2: Project Description

This chapter briefly discusses the background information of the project, brief description and objectives of the project and environmental consequences. The following points will be discussed and covered as per EIA Notification 2006 & its amendment of MoEF&CC as given follows:

- Type & need for the project
- Location (maps showing general location, specific location, project boundary & project site layout)
- Size or magnitude of operation (inclusive associated activities required by or for the project
- Project description including drawings showing project layout, components of project etc. schematic representations of the feasibility drawings which give information important for EIA purpose

Chapter 3: Description of the Environment

This chapter discusses the environmental setting of the project area based on primary and secondary data collection. The following points will be discussed given as follows:

- Study area, period, components & methodology.
- Establishment of baseline for valued environmental components, as identified in the scope of the project.

Chapter 4: Anticipated Environmental Impacts & Mitigation Measures

This chapter predicts the environmental impacts of the various components of the project during construction and operation phases to highlight concern areas requiring mitigation measures. Accordingly, it also suggests controls and mitigation measures to offset/ minimize the adverse impact while optimizing the positive benefits from the project. This chapter covers the following points:

- Details of investigated environmental impacts due to project location, possible activities, project design, construction, regular operations, final decommissioning or rehabilitation
- Measures for minimizing and / or offsetting adverse impacts identified
- Irreversible and Irretrievable commitments of environmental components
- Assessment of significance of impacts (criteria for determining significance, assigning significance)
- Mitigation measures

Chapter 5: Analysis of Alternatives

This chapter discusses about the technology and site explores the alternative sites and plans that have been considered for the project and evaluates the different scenarios in the environmental context.

Chapter 6: Environmental Monitoring Program

This chapter discusses the outlines of monitoring program for the different environmental components during the construction and operation phase for evaluation of the environmental status of the area due to the project proponent.

Chapter 7: Additional Studies

This chapter discusses any study that has been carried out for the purpose of better understanding of the environmental impacts of the project. It also highlights any pertinent findings from the study that will aid decision-making.

Chapter 8: Project Benefits

This chapter brings out the positive impacts from the project.

Chapter 9: Environmental Cost Benefit Analysis

This chapter will analyze the environmental economic benefits that are associated with the project.

Chapter 10: Environmental Management Plan

This chapter organizes the suggested mitigation measures to aid implementation through formulation of performance indicators, reporting structure and pronounced implementation periods.

Chapter 11: Summary & Conclusion

This chapters summaries the important report findings and concludes on the environmental sustainability of the project.

Chapter 12: Disclosure of Consultants Engaged

This chapter discuss the names of the technical team involved in the report preparation along with accreditation of consultant from the quality council of India.

CHAPTER-2

PROJECT DESCRIPTION

2. INTRODUCTION

This chapter briefly discusses the project features while elaborating on components bearing environmental consequences. The project will generate employment opportunities for both skilled and unskilled workers in the vicinity, which will produce multiple effects on the life and economy of the local people. The project will not have any adverse effect on the land use pattern; it is earmarked for industrial estate development as per the Kharkhoda Development Plan.

2.1. TYPE OF THE PROJECT

The project is an Industrial Model Township which can be defined as a tract of land developed and subdivided into plots according to a comprehensive plan with provision for roads, transport and public utilities with or without built up factories, sometimes with common facilities for the use of a group of industrialists.

As the project area is 3217.19 acres which has been divided into three phases. As per EIA Notification 2006 and its amendment, the project is listed as 7(c) category.

2.2. SALIENT FEATURES OF PROJECT

Table 2.1: Salient Features of the Project

S. No.	Project – Parameters	Details
1.	**Project Name**	Industrial Model Township, Kharkhoda, Sonepat, Haryana
	Connectivity	Nearest Town: Kharkhoda, 6 km (NW) Nearest City:Sonepat, 18 km (NE) District Headquarters: Sonepat Nearest Railway Station: Narela, 9 km (East) Nearest Airport:Indira Gandhi International Airport 35 km. (SE) The site has good connectivity by road. Kundli - Manesar - Palwal (KMP) Expressway & SH-18 are adjacent to the project site.

	***Site Coordinates-**		Latitude: 28°50'3.98"N to 28°49'35.92"N Longitude: 76°58'12.05"E to 76°54'42.38"E
	Project category as per EIA Notification, 2006 and amendments		Category: A, item 7 (c) of the schedule
2.	**Land** (Acre)	Total area	3217.19 Acre (1301.95 Hectare)
3.	**Population**	Industrial Zone	67,085 Persons
		Commercial Zone	69,408 Persons
		Residential (R&R)	8,298 Persons
		Hospital (500 Beds)	2,174 Persons
		Institutional Area	1,41,185 Persons
		Public Utility and Public Buildings	1,704 Persons
		R&R and Land Pooling	8,826 Persons
		Total	**2,98,680 Persons**
4.	**Water** (KLD)	Source	Western Yamuna Canal
		Total Demand	92,666
		Fresh Water Demand	58,000
		Treated water available for re-circulation/re-use	50,899
5.	**CETP/** (KLD)	Capacity	64,000
		Treated effluent available	50,899
		Area provided for CETP	26.45 Acre
6.	**Power** (MW)	Source	State Power Utilities
		Demand	500
7.	**Solid waste** (Kg/day)	Industrial Zone	33,543 Kg.
		Commercial Zone	13,882
		Residential (R&R)	4,149
		Hospital (500 Beds) • Bio Medical Waste	750 188
		Institutional	28,237
		Public Utility and Public Buildings	171
		R&R and Land Pooling	4,413
		Area under Green belt, Road, Open Spaces, Rail & Parking	48,702
		Total	1,34,035 Kg **Say 134 Tonne**
8.	**Green area**	433.85 Hectare / **1072.089 Acre**	

2.3 NEED OF PROJECT

The main objective of the Industrial Model Township is to encourage and support the creation, expansion and modernization of Small Scale Industries (SSI) through the provision of factory accommodation, common service facilities and assistance and servicing through all stages of establishment and operations as well as developing sub-contracting relationship within the small scale and large scale industries and specialized manufacturing activities. The main purpose of developing these sites is:

- To encourage the industrial activities of the Sonepat Area centrally linked by transport, communication, water and power supply.
- To confine the industrial activities in restricted area in order to ensure the industrial growth in an environmental friendly manner.

2.4 SIGNIFICANCE OF INDUSTRIAL MODEL TOWNSHIP

Contributions of Industrial Estate to Economic and Industrial Development

a) To promote more rapid industrialization in the country
b) To increase national and local employment
c) To attract private investment both national and foreign
d) To promote the development of small and medium industries
e) To encourage more effective use of resources through the development of industrial complexes, including diversified industries of all sizes.
f) To bring industries and industrial employments to rural areas
g) To train labours and increase its productivity

As Part of Urban and Regional Planning, Industrial Model Township

a) To achieve economies in the provisions of urban services and utilities
b) To increase the economic, productive and employment base of regional communities
c) To promote decentralization by preventing or checking excessive concentration in or growth of single urban areas, especially large metropolitan areas
d) To minimize distance to work and to reduce load on the transport system
e) To maximize efficient land usage and reduce the cost of land and land development.

f) Industrial development plays significant role in improvement of economic condition and potential of employment generation. Sonepat is being developed as Industrial hub in Haryana. It is anticipated that employment generation may increase up to 30% of present employment status in the area.

2.5 ANALYSIS OF ALTERNATIVES

Site selection is an important criterion for development of any project. As this is an industrial estate project, identification of suitable site is based on various considerations.

- Physical Infrastructure
- Environment Consideration (land use, air pollution, water pollution sensitivities)
- Socio Economic consideration

Physical Infrastructure: In Haryana land use plan, the area where the site is located is defined as urbanization development area. Development and construction of the site are consistent with the positioning in this land use plan, which also defines the possibility of development and construction of periphery areas. The west of the site is planned as an agriculture area unavailable for development and construction. Both the east and the south of the site are planned for urbanization development where development and construction will be allowed, providing sufficient room for the site's future development.

In Kharkhoda Development Plan (2008-2021), the direction for city development is southward; areas for living and production are located to the north and south of KMP Expressway and Railway, respectively; and the site is located right in the latter area. In this way, the development positioning of new industrial city in site is accurate and conforms to Kharkhoda Development Plan (2008-2021).

Periphery environment is favorable. Traffic and municipal condition are good which can satisfy the local planning requirements. Positioning of the industrial park is accurate and feasible. Terrain is flat. Remising price is low, and so is transformation cost. The value of the land has great potential. Overall, it is very favorable for project construction and realization of planned positioning.

2.6 BRIEF DESCRIPTION

2.6.1 The area demarcation of the project site is given below:

Initially, the net site area was 3271.26 Acre (1323.86 Ha) after releasing 89.13 Acre for which ToR was issued by MoEFCC vide letter no. 21-237/2017-IA.III dated 23rd August, 2017.

Out of the 3271.26 acre, 52.15 acre related to other Govt. Dept./agencies could not be taken over. Therefore, the DEIA/EMP was prepared on the basis of reduced area i.e. 3219.11 Acre on which Public Hearing was held.

Further, 1.92 Acre land was released in accordance with High Court Order vide notification no.2/1/4-1-IB-II-2010 dated 03.06.2019 issued by Addl. Chief Secretary to Government, Haryana, Industries & Commerce Departments. Therefore, the net site area further reduced to 3217.19 Acre (1301.95 Ha) on the basis of which FEIA/EMP report has been prepared, which is well within the area for which ToR was issued.

The final area statement/land use of project, in view of all above amendments is being submitted in the FEIA/EMP report.

Table 2.2: Detailed Area Statement

S. No.	Area Statement	In Acre	In Hectare	In Sqm	%age
1	Total Site Area	3306.32	1338.02	13380202.32	
(A)	Area released	89.13	36.06	360696.31	2.69
(B)	Balance Land	3217.19	1301.95	13019506.02	97.31
(a)	Raw Land allotted to Gram Panchayat Village Rampur for BPL Families	10.0	4.046	40468.56	0.31
(b)	Area Reserved for Industrial Plots	1243.28	503.13	5031375.65	38.64
(c)	Area Reserved for Commercial Use	171.51	69.407	694076.34	5.33
(d)	Area Reserved for Public Utilities/Buildings	168.47	68.18	681773.90	5.24
(e)	Area Reserved for Institutional Use	147.61	59.73	597356.47	4.54
(f)	Area Reserved for R&R Plots	109.29	44.22	442280.9	3.4
(g)	Area Reserved for R&R Pockets & Land Pooling	163.58	66.198	661984.79	5.08

	Plots/Housing				
(h)	Area Reserved for Green Belts, Open Spaces, Roads, Orbital Rail Corridor & Parking etc.	1203.45	487.02	4870189.36	37.41

2.6.2 Project Cost

Total project cost is 4000 Crores that includes the land cost as well as development cost.

Table 2.3: Breakup of Project Cost

S.No.	Description	Total Amount (in Crores)
1	Land Cost	Rs. 1700
2	Development Cost	Rs. 2300
Total		4000 Crores

2.6.3 Population

Total population of IMT-Kharkhoda will be 2,98,680 persons.

Table 2.4: Break up of Population

S. No.	Unit Type	Plots/ Dwelling Units	Area (m^2)	Norms	Total Population
1	**Industrial**		50,31,375.65	75m^2/Person	**67,085**
2	**Commercial**		6,94,076.35	10m^2/Person	**69,408**
3	**Residential (R&R)**	1,383	4,42,280.9	6 Persons/Plot	**8,298**
4	**Hospital (500 Beds)**		32,617.66	15m^2/Person	**2,174**
5	**Institutional Area**		5,64,738.81	4m^2/Person	**1,41,185**
6	**Public Utility and Public Buildings**		6,81,773.90	400m^2/Person	**1,704**
7	**R&R and Land Pooling**		6,61,984.77	75m^2/Person	**8,826**
	Total Population				**2,98,680**

2.6.4 Water Requirement

Total water requirement for the proposed IMT, Kharkhoda project will be 92.6659 MLD out of which fresh water demand will be 58 MLD and rest of the demand shall be met out from treated waste water. The source of water will be Western Yamuna Canal. Detailed

calculations for water demand, waste water and water balance are given in the following tables:

Table 2.5:Calculations for Daily Water Demand

Water Allowance and Water Balance IMT Kharkhoda									
Total area 3217.19 Acre									
Sr. No.	Description	Area in Acres	Water allowance per Acre in LPD	Total Qty of Water in MLD	% of Recycled water	Qty of Recycled water in MLD	Fresh Makeup water for recycled water @ 20% of Column (**G**) in MLD	Capacity of Water Works in MLD	Capacity of CETP/Total Waste Water 80% of Column (**G+I)** in MLD
A	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**I**	**J**
1	Total Land Planned	3217.19		C x D/ 10^6		E x F	G x 20%	(E-G)+ H	(G+I)x80%
2	Raw Land allotted to Gram Panchayat Village Rampur for BPL Families	10	45000	0.45	0%	0	0	0.45	0.36
3	Area Reserved for Industrial Plots	1243.28	45000	55.9476	50%	27.9738	5.59476	33.56856	49.233888
4	Commercial Use	171.51	20000	3.4302	30%	1.02906	0.205812	2.606952	2.9088096
5	Public Utility & Public Building	168.47	20000	3.3694	30%	1.01082	0.202164	2.560744	2.8572512
6	Institutional Use	147.61	20000	2.9522	30%	0.88566	0.177132	2.243672	2.5034656
7	R & R Plots	109.29	18000	1.96722	0%	0	0	1.96722	1.5741
8	R & R Pocket Land Pooling Plots Housing	163.58	18000	2.94444	0%	0	0	2.94444	2.3555

9	Green Belt, open space including water works & CETP and Road side plantation	500.00	20000	10	100%	10	2.00	2.00	0.00
10	Village Rampur Kundal	89.13	18000	1.60434	0%	0	0	1.60434	1.283472
11	Total Water Demand for HVAC and boiler Watering and	0	0	10	100%	10	2.0	2.0	0
	Total			**92.6659**		**50.8993**	**10.1798**	**51.9459**	**63.0764**
12	**Fire Demand, Total Person**	660000	100(P)^0.5 Population in thousand		Storage Capacity for 10 Minutes	1.8 MLD at CETP			1.429 MLD at CETP
	Summary	**MLD**							
1	**Total Water Produced**	**113.9757**							
2	**Water Demand**	**92.6659**							
3	**Balance to be adjusted**	**21.3098**							
4	**Water Lost**								
a	**HVAC, Boiler etc. in MLD**	**10**							
b	**Green Belt, Open Space etc.**	**10**							
	Total Lost	**20.0**							

Therefore,

i. WTP Capacity = 52 MLD

ii. Raw water requirement = 52 + 10% (on a/c of water losses due to evaporation etc.)

= 57.2 MLD say 58 MLD

iii. CETP capacity = 64 MLD

The raw water collected in the storage tanks will be transferred to Water Treatment Plant before supply. Treatment process will involve following steps:

- Clarification
- Filtration
- Disinfection

Approx. 64 MLD of waste water generated will be treated from the project which will be treated in an onsite CETP of 64 MLD capacity. Treated effluent 50.90 MLD will be reused for flushing, HVAC, Boiler, horticulture etc.

Common Effluent Treatment Plant

To treat the industrial effluent, a Common Effluent Treatment Plant (64 MLD) is proposed to be constructed within the industrial estate in an area measuring 26.45 Acre.

Treatment Technology

The methods for treatment of effluent range form physico-chemical to biological as explained below:

Physico- Chemical:

I) Screen & grit removal
II) Sedimentation
III) Sludge Thickeners
IV) Vacuum Filters
V) Centrifuges

Biological:

Anaerobic

a) Contact beds
b) UASB
c) Sludge Digesters
d) Anaerobic Ponds

Aerobic

a) Attached

i) Moving bed bio reactor
ii) Plasma treatment

b) Suspended

i) Activated Sludge

ii) Extended Aeration
iii) Aerated Lagoons
iv) Waste Stabilization Ponds (WSP)

Evaluation of Treatment Processes:

The following alternatives of sewage treatment have been considered for evaluation of performance characteristics, land requirement, energy input, equipment requirement and operational characteristics.

1. Membrane Biological Reactor
2. FAB/MBBR technology
3. Sequential Batch Reactor (SBR)
4. Extended Aeration

The advantages and disadvantages of various processes are as under:-

- **Membrane Biological Reactor**

Advantages:

- Less area requirement; it is about 0.33 to 0.5 times the space required for a conventional system.
- Low operating cost. sludge
- No dependence on recirculation
- Excess sludge production is very low and it is fully digested
- Operating power consumption cost is 0.3 kWh /cum for filtration.
- More efficient in removing total Coliform to the order of ~ 99.999 %.
- Drinking water quality is achieved
- Option available for removal of N and P

Disadvantages:

- High initial capital investment.
- Periodical cleaning of membranes with chemicals to prevent clogging of membranes. Membranes also require replacement every 4-5years.

Moving Bed Bio film Reactor (MBBR)

Advantages:

- Sensitivity to small power break downs is low
- Sludge re-circulation not needed and the system is self-sustaining.
- Very small area around1/10th of conventional system is required.

- Low power consumption
- Higher degree of treatment.
- High degree of coliform removal
- Less chlorine dosing required.

Disadvantages:

- Installation cost is slightly higher

Sequential Batch Reactor (SBR)

Advantages:

- Over all footprint area is less.
- Fully automatic system makes it very easy for operation & maintenance.
- Variable loads can be treated in batches.
- No synthetic media is required for treatment.
- No re commissioning is required once its stabilised.
- Effective BOD removal along with Nitrogen and phosphorus removal due to nitrification –
- De nitrification process accuring within the system.

Disadvantages:

- Installation cost is higher
- Skilled man power is required to run the plant.

Extended Aeration

Advantages:

- High degree of treatment-Efficiency 95 to 98% BOD removal
- The excess sludge does not require separate digestion and can be directly dried on beds.
- Excess sludge production is minimal.

Disadvantages:

- Low organic loading
- Long aeration time
- Higher power consumption
- Less F/M ratio

Table 2.6: Techno-economic comparison of the sewage treatment alternatives

S. No	Item/Parameter	Extended Aeration	MBR	MBBR	SBR
1	Overall HRT(WholeSystem)	12-14hrs	8hrs	4-6hrs	8hrs
2	Out let BOD mg/l	<50	<5	<30	<30
3	Out let CODmg/l	80-90	<10	<100	<70
4	TSS Removal, %	85-90	<1	<100	<70
5	Faecal coliform Removal,logunit	Up to3<4	Up to6 <7	Up to2<4	Up to5<6
6	Average Area required(m^2/mld)	1600	760	1100	850
7	Capital Cost,Rs.LacsperMLD	140	400	190	250
8	Total Annual O&M Cost,Rs.Lacs per MLD	50.4	48.2	41.9	40
9	Life cycle cost for 15 yrs,Rs. in Lakhs	612.6	835.6	568.3	602.62
10	Energy efficiency rate	1.95	2.8	2.5	------

The cost of Extended aeration is lowest followed by MBBR. Hence, Extended aeration technology is proposed for CETP.

CETP capacity

CETP of 64 MLD will be constructed which will be based on Extended Aeration technology.

Details of CETP is enclosed as Annexure-XIX

Power Requirement

The estimated electricity requirement for the project is 500 MW which will be supplied by State Electricity Board.

The new city contains numerous buildings with high requirements for power supply reliability such as international hospitals, international schools, high-end hotels, large-scale amusement centers. Therefore, for the reliable power supply of Industrial Model Township, Kharkhoda, two circuit of 220kV power supply line from two different 400 kV substation of Indian State Grid shall be adopted as normal power source, Furthermore, another 132kV line shall be as an accident backup power supply. And the technical measures of gridding network, multi-link power supply and distribution automation are utilized to meet the requirements of power supply reliability.

In the first stage, 220 kV substation (2x240 MVA), two of 132 kV substation (2x63 MVA) will be put into operation. In the second stage, another two 132 kV substation (2x63 MVA) will be built. In the third stage, all substations will reach final capacity. 11kV switching stations are gradually constructed along with load increasing.

Parking Facilities

The total area of the land for public parking lots of the city is about 0.8 to 1.0m² for each person in the urban area, including 80% to 90% of the land for parking lot for motor vehicles and 10% to 20% of the land for parking lot for bicycles. Therefore, the area of public parking lots for motor vehicles in the Industrial Model Township, Kharkhoda is about 115,200 m². Considering rigidity (20%-25%) and semi-rigidity (25%-30%) of parking demands, and flexible parking facilities (45-50%), this plan is only to consider and plan for car parks that are rigid and semi-rigid, which is around 57600 m² (includes on road and off road parking facilities). Of the total parking space available, parking space for residents of the new industrial city is 48960 m². This plan recommends building 3 parking lots, which is to be distributed as follows: one is located in the regional train station, one in the eastern side of the residential area and the left one in the western side of the residential area. The average size of each parking lot is approximately 16000 m². On road parking spaces can be set up along feeder roads and roads with limited traffic.

Bus Station Facilities

For the planned fleet size of urban buses and trams, a standard car for every 1200 to 1500 people shall be realized in the medium and small cities. The floor area of the standard car is about 120 m², and the total area of the public transport station facilities is 14400m². It is suggested that 3 bus stations be arranged, which shall be located at the rail station, west side of the park and south side of the park. The average area of each bus station is around 5000m^2, totalling 1.5 ha.

Oil Filling Station Facilities

The service space of the urban public oil filling station shall be 0.9 to 1. 2 km. The area of the industrial new city shall be about 13.01 square kilometers. Therefore, about 2 to 5 public oil

filling stations shall be arranged. It is planned to arrange 2 oil filling stations with an average area of about 3000 m² per filling station, totalling 0.6 ha.

Table 2.7: Schedule of Traffic Facilities for Industrial Model Township, Kharkhoda, Sonepat, Haryana

Traffic facility type	Serial No.	Area (m²)	Remarks
Parking lot	1	16000	To provide approximately 533 underground parking spaces, to be combined with the rail station transfer.
	2	16000	To provide approximately 533 underground parking spaces, providing service for parking in the living area.
	3	16000	To provide approximately 533 underground parking spaces, providing service for parking in the living area.
	4	150000	To provide approximately4348 parking spaces, aboveground, providing service for parking in the tourism industrial park area
Bus station	1	56000	Service for the new industrial city
	2	4500	Service for the new industrial city
	3	4500	Service for the new industrial city
Oil Filling Station	1	3000	Oil filling station, providing service for vehicles from the industrial new city
	4	3000	Oil filling station, providing service for vehicles from the industrial new city
Total	12	269000	

II) Solid Waste Management

During operational phase, approx. 134 ton/day of construction waste will be generated which will be used for filling purpose at site and surplus will be disposed off through local agency. During operation phase, following types of waste will be generated:

Table 2.8: Solid Waste Details

S. No.	Unit Type	Plots/ Dwelling Units	Area (m^2)	Total Population	Norms of Collection of Solid Waste Kg/Capita	Estimated waste Quantity in Kg
1	**Industrial**		50,31,375.65	**67,085**	0.5	**33,543**
2	**Commercial**		6,94,076.34	**69,408**	0.2	**13,882**
3	**Residential (R&R)**	1,383	4,42,280.9	**8,298**	0.5	**4,149**
4	**Hospital (500 Beds)** • **Bio Medical Waste**		32,617.66	**2,174**	1.5/bed @25% of total waste	**750** **188**
5	**Institutional Area**		5,64,738.81	**1,41,185**	0.2	**28,237**
6	**Public Utility and Public Buildings**		6,81,773.90	**1,704**	0.1	**171**
7	**R&R and Land Pooling**		6,61,984.77	**8,826**	0.5	**4,413**
8	**Area Reserved for Green Belts, Open Spaces, Roads, Orbital Rail Corridor & Parking etc.**		4870189.36		0.1/10sqm	**48,702**
	Total Waste			**2,98,680**		**1,34,035 Say 134 Tonne**

Management of Solid Waste

Scientific and systematic storage of waste at source will be done by providing a suitable system of storage of waste at source and educating the people.

- Promote holding waste in bags and classified collection with fixed time and places, wastes transport will combine indirect transport by transfer stations with direct transport.
- Streets sweeping and drain cleaning will be done on regular basis. The solid waste generated in the IMT shall be collected and removed by sanitary workers of the local Public Health Division.
- Design scale and operational capability of the collection station must meet requirements for "daily clearing for daily production "of domestic garbage in the service area. The

collection station adopting sorting collection shall meet simple sorting and storage requirements according to the collection frequency of the sorted rubbish.

(1) Waste collection service radius will be within 0.4 km, not exceeding 1 km at maximum.

(2) The small motor vehicle will be adopted for collection and the service radius will not exceed 2 km at maximum.

- **Treatment/Disposal of Waste:** The waste shall be segregated at site and waste that will be reused and sent for recycling. Manure from compost will be used for enriching and renewing the vast green spaces. Remaininginertwasteshallbetransportedtolocalsolidwaste-dumpingsite.

Approx. 21.64 Acre of land is proposed for solid waste disposal.

CHAPTER-3

DESCRIPTION OF ENVIRONMENT

3. INTRODUCTION

Information on the existing environmental status is essential for assessing the likely environmental impacts of the project. In order to get an idea about the existing state of the environment, various environmental attributes such as meteorology, air quality, water quality, soil quality, noise level, ecology and socio-economic environment have been studied/ monitored. This chapter briefly discusses the environmental setting of the project area based on primary and secondary data collection.

3.1. STUDY PERIOD

Baseline environmental data generation for air, water, noise and soil quality monitoring around the project site was conducted during post monsoon season as defined by IMD(Oct – Dec, 2017).

3.2. STUDY AREA

The present report covers baseline environmental data generated in the study area (10 km radius all around the project site for land use and the sample selection for monitoring are done within 5 km radius of the project site).

3.3. LAND ENVIRONMENT

Land use/ Land cover map of study area for the project is prepared by digitizing SOI toposheet, which has helped in the study of land use pattern of the study area. Site visit was conducted to study area for collection of real time data. Information from ground trothing & SOI toposheet was clubbed for preparation of land use land cover map.

Result

From the prepared land use land cover map, it was found that study area comprises of project site, agricultural area, settlements, open land, open scrub, water bodies& vegetation etc. The

land use data of project site within 10 km is presented below. The land use map is enclosed as **Annexure- 1(b).**

Table 3.1: Land Use Pattern of the Project Site with in Study Area

LAND USE CLASS	AREA (Ha)	AREA (Sq. km)	AREA In Percentage %
Settlement	3396.04	33.9604	7.05
Water bodies	255.74	2.5574	0.53
Vegetation	133.94	1.3394	0.28
Forest	232.8	2.328	0.48
Open Scrub	1599.84	15.9984	3.32
Open Land	629.4	6.294	1.32
Agricultural land	41900.74	419.0074	87.02
TOTAL	**48148.5**	**481.485**	**100**

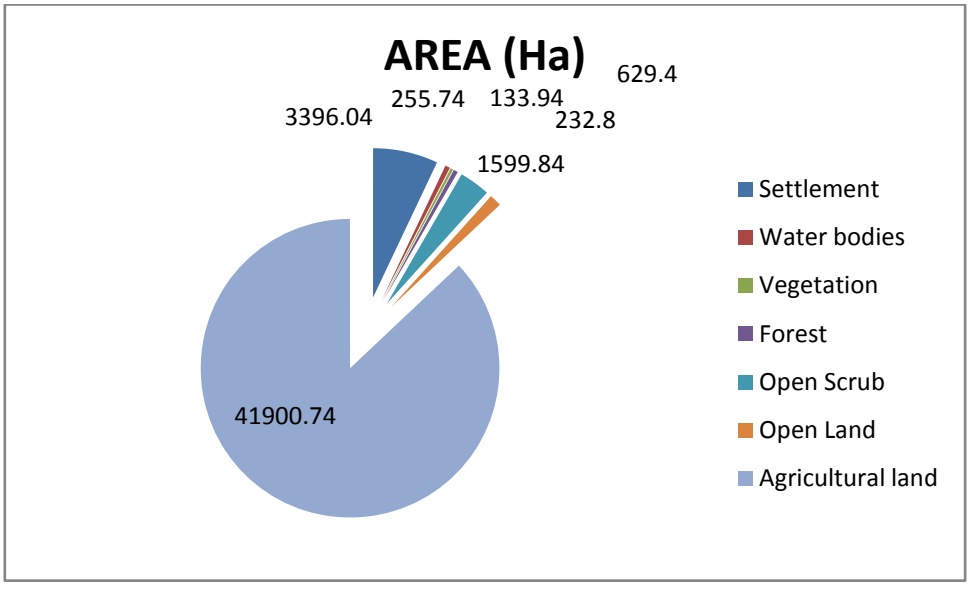


Figure3.1: Land Use Pattern of the Project Site within 10 km

3.3.1 Topography

- **Slope Form:** Contour plan shows that land is flat with highest level 220.16 msl and lowest level 216.1msl. Project will not cause any change in natural slope.

- **Landform and Terrain Analysis:**According to the study of 10 km radius around the project in topographical map of scale 1:50000, it was found that 87.02% is agricultural land followed by7.05%settlement land. Complete details are given in Figure 3.1 above.

3.3.2 Soil

- **Type and Characteristics:**To assess the soil quality of the area, following stations were selected. Soil profile and quality was studied at 10 different locations. Location of soil sampling stations is described below in Table 3.2 and location is shown in Figure 3.2.

Table 3.2: Location of Soil Sampling Stations

Station No.	Location	Direction	Distance(In Km)
SQ1	Project Site	Center	-
SQ2	Firozpur Bangar	East	1.0
SQ3	Daryapur Kalan	ESE	4.35
SQ4	Jhinjholi	ENE	4.0
SQ5	Qutabgarh	SSE	2.4
SQ6	BajitpurThakran	SE	4.5
SQ7	NizampurKhurd	NE	1.0
SQ8	Tarakpur	NNE	4.6
SQ9	Khurampur	West	4.0
SQ10	Gopalpur	WNW	1.5

- **Sampling Procedure & Analysis**

The soil samples were collected once during the study period from each location. The sampling was done using Augur Sampler and samples were filled in polythene bags, labeled in the field with number and site name and sent to laboratory for analysis. Sampling & Analysis of soil was done as per ISO/ IS:2720/ Soil Chemical Analysis by M.L. Jackson.

Table 3.3: Standard Soil Classification

S.No.	Parameters	Classification
1.	pH	<4.5 extremely acidic 4.51 – 5.0 very strong acidic 5.01 – 5.5 strongly acidic 5.51-6.0 moderately acidic 6.1 – 6.5 slightly acidic 6.51-7.3 neutral 7.31-7.8 slightly alkaline 7.81-8.5 moderately alkaline 8.51 – 9.0 strongly alkaline >9.0 very strongly alkaline
2.	Salinity Electrical Conductivity (milli mho/cm) 1 mho/cm = 640 ppm	Up to 1.0 average 1-2 harmful to germination 2-3 harmful to crops
3.	Nitrogen (kg/ha)	Up to 50 very less 51-100 less 110-150 good 151-300 better >300 sufficient
4.	Phosphorus (kg/ha)	Up to 15 very less 15 – 30 less 31-50 medium 51-65 on average sufficient 66-80 sufficient >80 more than sufficient
5.	Potassium (kg/ha)	0-120 very less 120-180 less 180-240 medium 241-300 average 301-360 better >360 more than sufficient

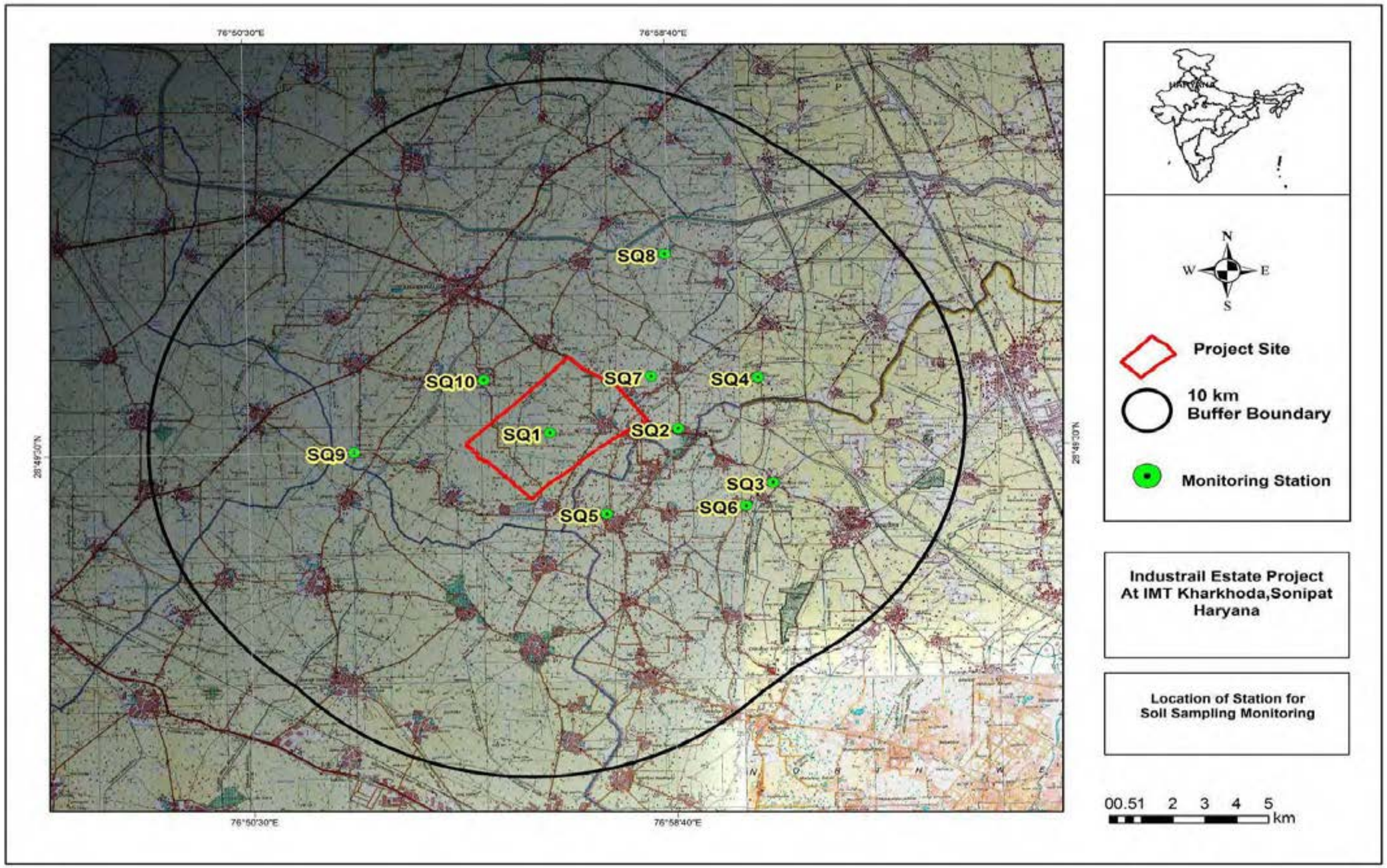


Figure 3.2 Soil Sampling Location

Table 3.4: Soil Quality Data

Industrial Estate IMT,KharkhodaSonepat HR												
Soil Quality Data DEC – 2017												
S.No	**Parameter**	**Unit**	**Project site**	**Firozpur Bangar**	**Daryapur Kalan**	**Jhinjholi**	**Qutabgarh,UjalaColony**	**(BazidpurThakran**	**NizampurKhurd**	**Tarakpur**	**Khurampur**	**Gopalpur**
			SQ-1	**SQ -2**	**SQ -3**	**SQ -4**	**SQ -5**	**SQ -6**	**SQ -7**	**SQ -8**	**SQ -9**	**SQ -10**
1	Texture	-	Sandy Loam	Sandy Clay Loam	Sandy Loam	Sandy Clay Loam	Sandy clay Loam	Sandy Clay Loam	Sandy Clay Loam	Sandy Clay Loam	Sandy Loam	Sandy Clay Loam
	Sand	%	64.7	56.3	60.5	54.8	66.5	55.7	57.6	54.7	67.5	55.9
	Silt	%	16.4	21.2	20.3	20.7	11.8	20.8	18.9	18.8	14.3	17.6
	Clay	%	18.9	22.5	19.2	24.5	21.7	23.5	23.5	26.5	18.2	26.5
2	pH (1:2)	-	7.62	7.86	7.56	8.13	7.63	7.87	7.98	7.88	7.58	8.16
3	Electrical Conductivity (1:2)	µmhos/cm	296	345	321	426	322	348	356	347	325	466
4	Cation exchange capacity	meq/100 gm	13.4	14.5	14.0	16.4	14.4	14.6	14.8	15.6	14.1	15.7
5	Exchangeable Potassium	meq/100 gm	0.28	0.32	0.30	0.39	0.38	0.33	0.39	0.32	0.43	0.45
6	Exchangeable Sodium	meq/100 gm	0.42	0.51	0.48	0.62	0.65	0.58	0.56	0.69	0.68	0.82
7	Exchangeable Calcium	meq/100 gm	9.58	10.12	9.82	11.23	9.59	10.08	9.87	9.89	9.53	10.2
8	Exchangeable Magnesium	meq/100 gm	3.12	3.58	3.42	4.12	3.82	3.65	3.98	4.65	3.47	4.18
9	Sodium Absorption Ratio	-	0.53	0.62	0.59	0.71	0.79	0.70	0.67	0.81	0.84	0.97
10	Water Holding Capacity	%	24.6	27.1	26.3	28.5	24.8	27.3	27.5	28.2	25.6	28.7
11	Porosity	%	39.9	36.5	39.5	35.1	39.5	33.5	36.5	34.4	38.4	35.6
12	Permeability	cm/hr	2.3	2.0	2.1	1.9	2.4	2.3	2.1	2.2	1.9	2.3
13	Total kjehdahl Nitrogen	%	0.036	0.043	0.041	0.056	0.037	0.043	0.043	0.041	0.041	0.058
14	Phosphorus(Olsen’s)	mg/kg	7.1	9.6	8.2	10.3	7.1	9.4	9.6	9.7	8.3	9.7
15	Organic Matter	%	0.29	0.34	0.32	0.36	0.32	0.34	0.34	0.33	0.32	0.35

- **Result:**

Results of soil analysis are summarized in **Table 3.4**; the result show that texture of the project areais sandy loam, pH value observed in the study area was found in range of 7.56-8.16 that shows that the soil is slightly alkaline. Electrical conductivity varies from 296-466µmhos/cm that shows that soil conductivity is average. Primary nutrients like phosphorous, nitrogen, potassium was found in the range of 7.1- 10.3mg/kg, 0.036-0.058%, 0.28 -0.45mg/kg respectively. Primary nutrients are less that shows that soil is not good for the purpose of crop production.

3.4. AIR ENVIRONMENT

Meteorology

Meteorology is the interdisciplinary scientific study of atmosphere. Meteorological parameters include temperature, rainfall, relative humidity, cloud cover etc. Meteorological parameters like wind, rainfall etc. can alter, multiply or reduce impacts of phenomenon associated with project depending on its magnitude & direction of flow.

The ambient air quality monitoring was done to assess the ambient air quality in one season. Monitoring was carried out at 10 stations for the month of October- December 2017.The guidelines for selections of ambient air monitoring stations given in IS – 5182 part 14,2000 were followed. These guidelines state that, "when the objective of air sampling is to identify the contribution from specific sources of pollution, the sampling locations should located in upwind and the downwind of such sources". The location of air quality monitoring stations should satisfy the following conditions:

- The site should be representative of the area selected;
- The station should be set up and operated so as to yield data that can be compared with those from stations within the network; and,
- Certain physical requirements should be satisfied at the site.

3.4.1 Selection of Sampling Location

To select the air sampling locations, it was also seen that at least one station should be downstream of predominant wind direction. Location of air sampling stations is shown inTable-3.5 gives location of the ambient air quality monitoring stations and same is attached as Figure 3.3.

Table 3.5: Location of Ambient Air Quality Monitoring Stations

Locations	Location	Direction	Distance(In Km)
AQ1	Project Site	Center	-
AQ2	Firozpur Bangar	East	1.0
AQ3	Daryapur Kalan	ESE	4.35
AQ4	Jhinjholi	ENE	4.0
AQ5	Qutabgarh	SSE	2.4
AQ6	BajitpurThakran	SE	4.5
AQ7	NizampurKhurd	NE	1.0
AQ8	Tarakpur	NNE	4.6
AQ9	Khurampur	West	4.0
AQ10	Gopalpur	WNW	1.5

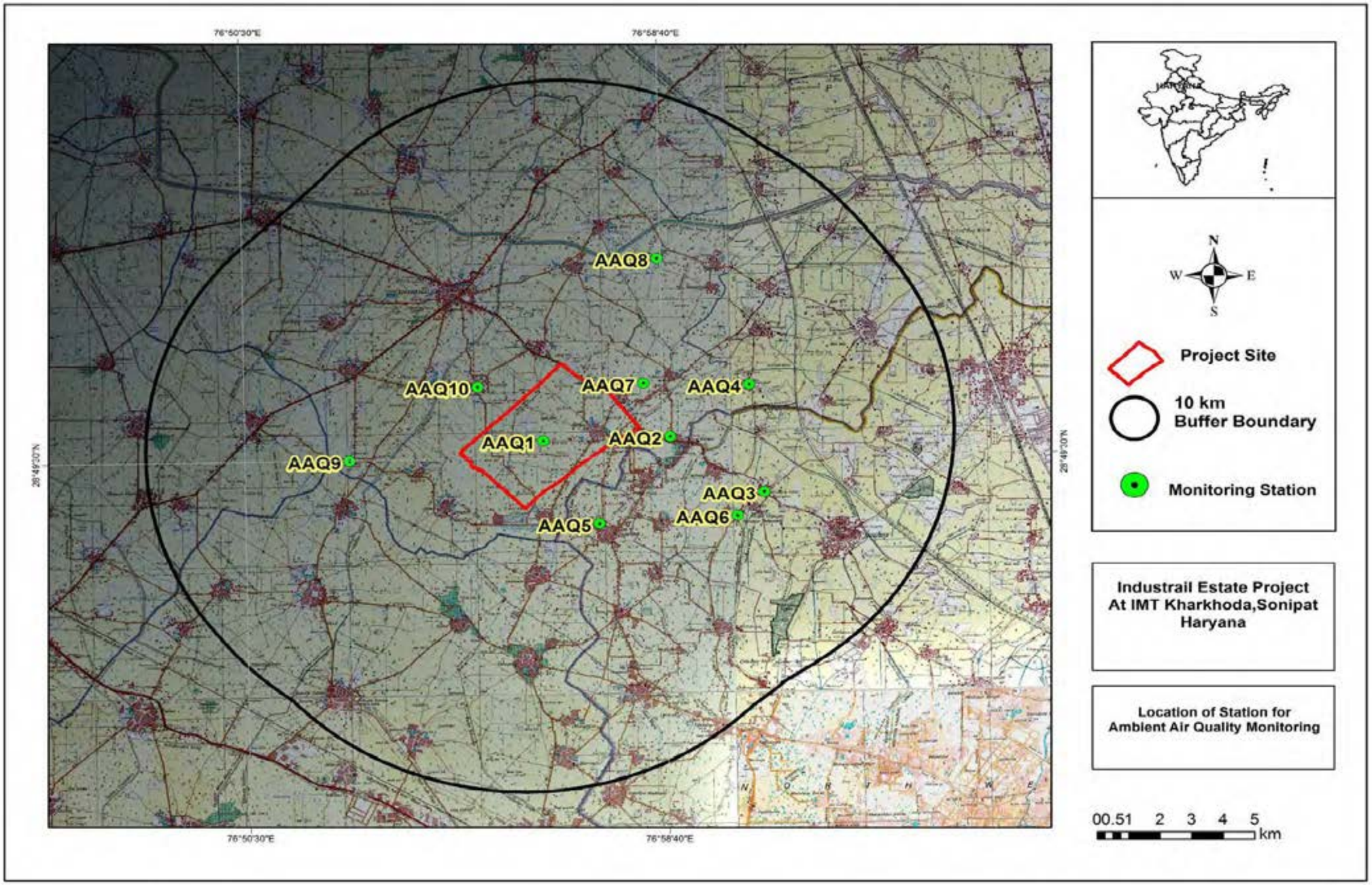


Figure 3.3: Air Monitoring Location

3.4.2Analytical Methods Followed For Ambient Air Quality Monitoring

The brief methodology of the parameter analysed is as follows:

I. **Particulate Matter ($PM_{2.5}$): (CPCB Method)** Particulate Matter ($PM_{2.5}$) was analyzed byFine particulate sampler Enviroteh Model APM 550. $PM_{2.5}$ was collected on 47mm diameter filter paper. The mass concentration of ($PM_{2.5}$) fine particles in ambient air was calculated as the total mass of collected particles divided by the volume of air sampled.

II. **Particulate Matter (PM_{10}):**Particulate Matter (PM_{10}) was carried out by Respirable Dust Sampler Envirotech Model APM 460 BL. The cyclone of this instrument is used for fractionating the dust into two fractions. PM_{10} dust is accumulated on the filter paper (8″×10″ size) while coarse dust is collected in a cup placed under the cyclone.$PM_{10}$was calculated as per IS: 5182 (Part 23):2006. The mass of these particles was determined by the difference in filter weight prior to and after sampling. The concentration of PM_{10} in the designated size range was calculated by dividing the weight gain of the filter by the volume of air sampled.

III. **Sulphur Dioxide (SO_2):** SO_2 was monitored with the help of APM 411 assembly attached with APM 460 BL using the impringer. It was absorbed by aspirating a measured air sample through a solution of Potassium tetrachloromercurate (TCM). This procedure resulted in the formation of a dichlorosulphitemercurate complex. The complex was made to react with pararosaniline and methylsulphonic acid. The absorbance of the solution was measured by means of spectrophotometer.

IV. **Nitrogen Dioxides:** NO_2 was monitored with the help of APM 411 assembly attached with APM 460 BL using the impringer.It was collected by bubbling air through a solution of sodium hydroxide and sodium arsenite. The concentration of nitrite ion produced during sampling was determined colorimetrically by reacting the nitrite ion with phosphoric acid, sulphanilamide and NEDA and absorbance of highly colored azo-dye was measured at 540nm.

V. **Carbon Monoxide**: It's measured using CO analyser. This analyser is used to measure CO in ambient air, in the range of 0-200 ppm (220 mg/m^3) to a sensitivity of 0.05 ppm (55$\mu g/m^3$). The serinus 30 combines the benefits of microprocess control with Non-Dispersive Infrared Spectrophotometry technology. CO concentration is automatically

corrected for gas temperature and pressure changes. CO was monitored on hourly basis whereas other parameters were monitored on 24 hourly bases.

Table 3.6: Methods Adopted For Ambient Air Parameters

Parameters	Technique	Technical Protocol
$PM_{2.5}$	Gravimetric method	CPCB Guidelines
PM_{10}	Gravimetric method	IS 5182 (Part-23)
Sulphur Dioxide (SO_2)	Improved West and Geake method	IS-5182 (Part-2)
Nitrogen Dioxides (NO_2)	Modified Jacob &Hochheiser method	IS-5182 (Part-6)
Carbon Monoxide (CO)	CO Analyser (NDIR technology)	CPCB Guidelines

Table 3.7: Ambient Air Quality Data October to December, 2017

S.No.	Pollutant	Location	Monitoring Station Category (R,I,S)	Minimum µg/m^3)	Maximum (µg/m^3)	Average (µg/m^3)	98th Percentile (µg/m^3)	NAAQS (Industrial, residential, rural and other area)
1.	SO_2 (µg/m^3)	AQ1	**I**	7.3	10.5	8.9	10.7	80µg/m^3
		AQ2	**R**	8.9	12.1	10.2	12.0	
		AQ3	**R**	8.3	12.0	10.2	11.9	
		AQ4	**R**	8.2	10.0	9.1	9.9	
		AQ5	**R**	9.2	14.0	11.9	13.6	
		AQ6	**R**	10.9	13.2	12.1	13.1	
		AQ7	**R**	8.8	12.3	10.4	12.2	
		AQ8	**R**	7.2	10.9	9.1	10.8	
		AQ9	**R**	8.8	12.5	10.7	12.4	
		AQ10	**R**	10.4	14.1	12.3	14.0	
2.	NO_2 (µg/m^3)	AQ1	**I**	33.8	47.0	38.4	45.9	80µg/m^3
		AQ2	**R**	26.0	43.8	34.3	42.7	
		AQ3	**R**	24.3	35.1	31.1	34.8	
		AQ4	**R**	29.6	42.3	36.8	41.7	
		AQ5	**R**	31.5	50.0	41.0	49.6	
		AQ6	**R**	38.5	51.2	45.7	50.6	
		AQ7	**R**	25.7	43.5	34.2	42.4	
		AQ8	**R**	27.3	38.1	34.2	37.8	

		AQ9	**R**	24.8	35.6	31.6	35.3	
		AQ10	**R**	34.4	45.2	41.2	44.9	
3.	PM_{10} ($\mu g/m^3$)	AQ1	**I**	144.2	255.9	179.9	253.6	100$\mu g/m^3$
		AQ2	**R**	177.6	241.9	207.1	241.1	
		AQ3	**R**	184.7	229.2	204.6	226.1	
		AQ4	**R**	143.1	189.8	157.9	183.6	
		AQ5	**R**	156.6	199.8	175.6	198.0	
		AQ6	**R**	149.6	219.0	181.5	212.8	
		AQ7	**R**	133.3	210.8	175.3	210.0	
		AQ8	**R**	172.6	217.1	192.5	214.0	
		AQ9	**R**	169.6	214.1	189.4	211.0	
		AQ10	**R**	186.5	220.6	208.6	220.6	
4.	$PM_{2.5}$ ($\mu g/m^3$)	AQ1	**I**	70.6	127.8	95.7	124.4	60$\mu g/m^3$
		AQ2	**R**	95.4	123.2	111.7	122.8	
		AQ3	**R**	88.5	111.7	99.3	109.7	
		AQ4	**R**	64.7	94.0	73.5	87.4	
		AQ5	**R**	67.1	91.1	78.9	90.7	
		AQ6	**R**	74.1	103.4	84.8	100.7	
		AQ7	**R**	76.4	129.7	103.6	128.5	
		AQ8	**R**	81.9	105.1	92.7	103.1	
		AQ9	**R**	78.9	102.1	89.7	100.1	
		AQ10	**R**	89.3	115.1	102.2	113.1	
5	CO ($\mu g/m^3$)	AQ1	**I**	520	1100	810	1086	4000 $\mu g/m^3$
		AQ2	**R**	780	1250	1019	1236	
		AQ3	**R**	770	1020	910	1015	
		AQ4	**R**	480	930	720	916	
		AQ5	**R**	1180	1480	1344	1466	
		AQ6	**R**	590	1040	830	1026	
		AQ7	**R**	890	1470	1189	1456	
		AQ8	**R**	1000	1250	1135	1245	
		AQ9	**R**	820	1070	955	1065	
		AQ10	**R**	1120	1370	1255	1365	

Figure 3.4(a): Ambient Air Quality Results ofSOx

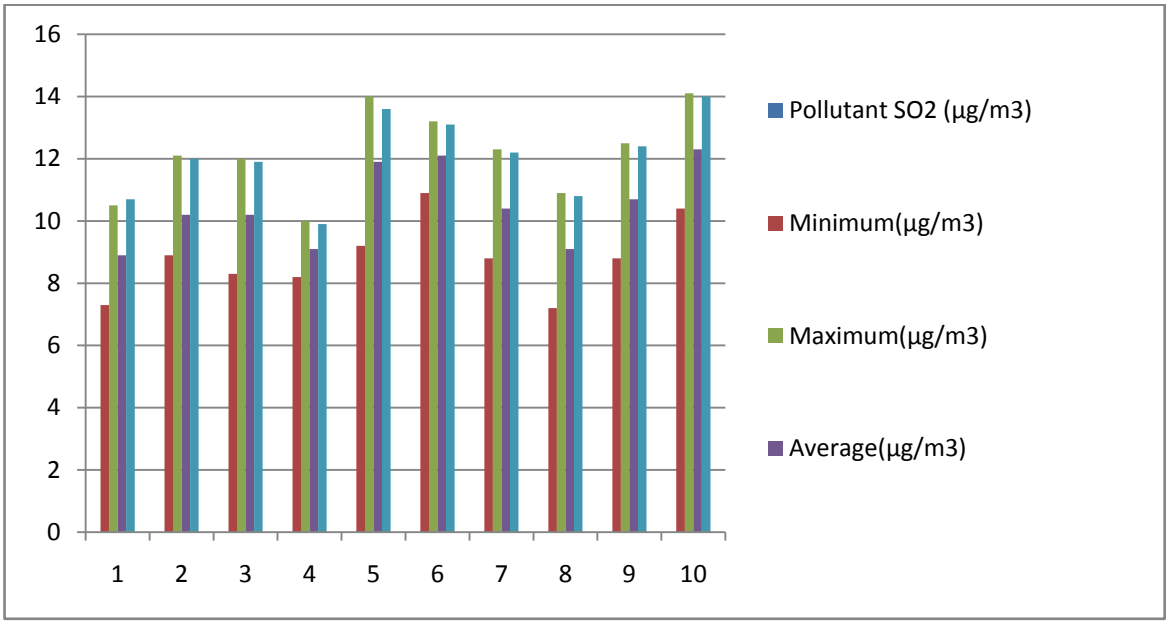


Figure 3.4(b): Ambient Air Quality Results of NOx

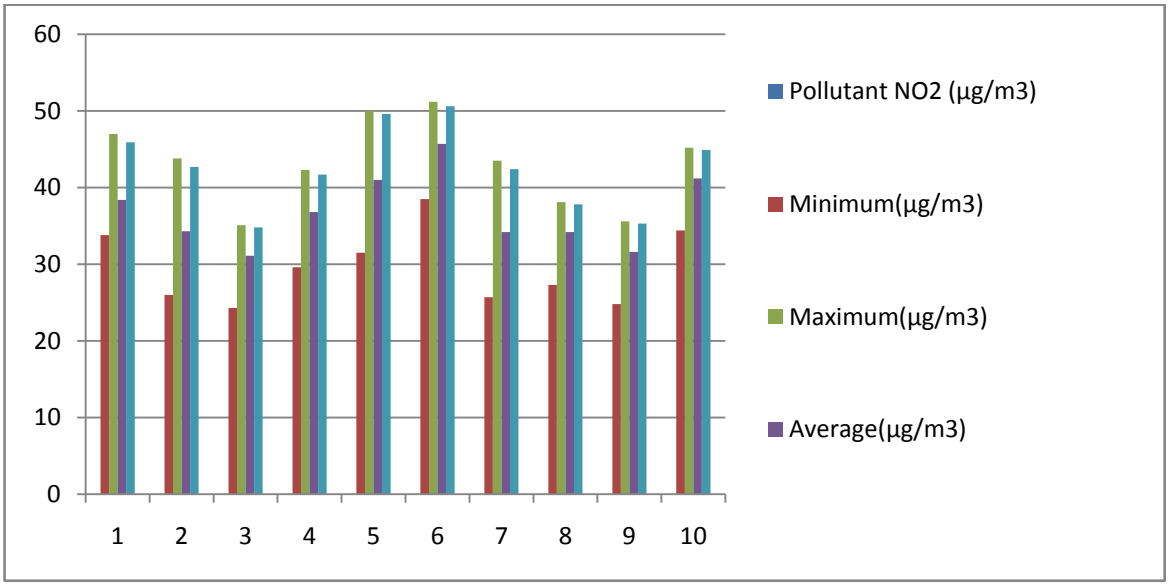


Figure 3.4(c): Ambient Air Quality Results of PM10

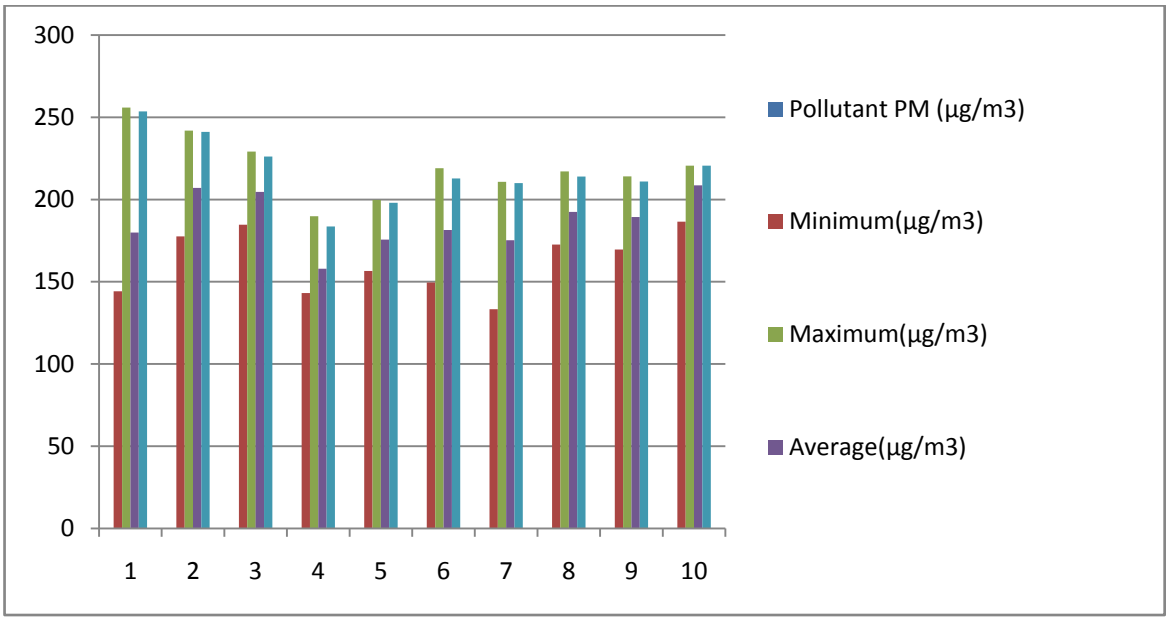


Figure 3.4(d): Ambient Air Quality Results of PM2.5

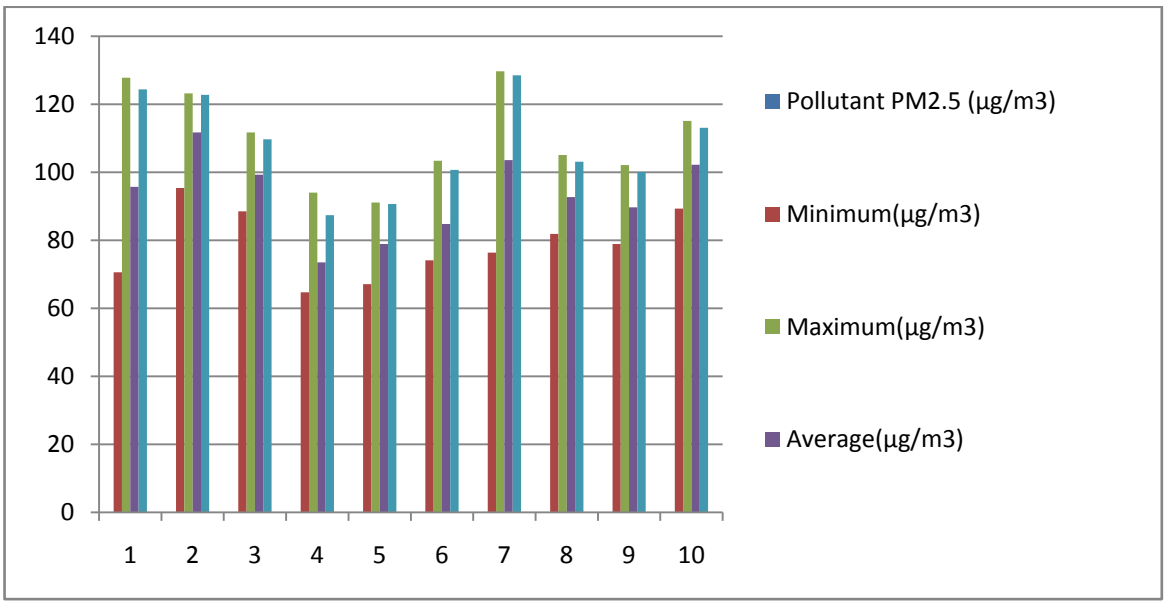
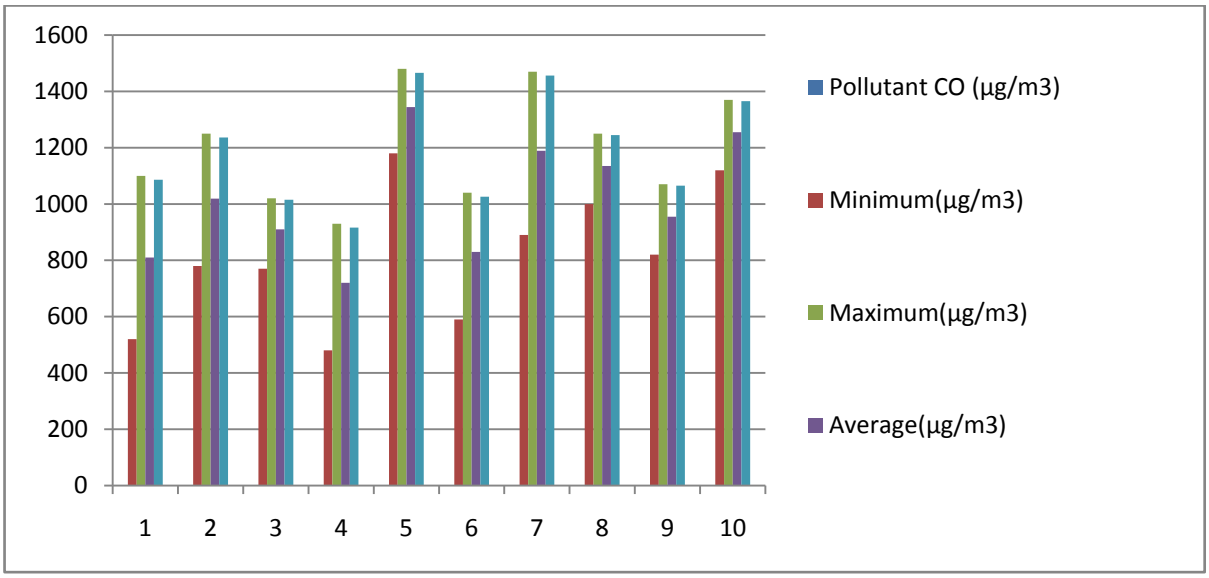


Figure 3.4(e): Ambient Air Quality Results of CO



3.4.4 Results and Discussions

From the summarized monitoring results it is clear that, in all cases, the 24-hourly average levels of SO_2 and NO_2 were observed to be within the limit of 80 µg/m^3 for residential, rural & other areas as stipulated in the National Ambient Air Quality Standards. CO was also within the permissible limit of 4000 µg/m^3.Also, in all cases, the $PM_{2.5}$ levels were within the corresponding permissible limit of 60 µg/m^3except for some monitoring sited. As well as PM_{10} level was high at Project Site and Firozpur Bangarmonitoring sited with respect to NAAQS.

3.5. NOISE ENVIRONMENT

Noise is one of the most undesirable and unwanted by-products of our modern life style. It may not seem as insidious or harmful as air and water pollutants but it affects human health and well-being and can contribute to deterioration of human well-being in general and can cause neurological disturbances and physiological damage to the hearing mechanism in particular. It is therefore, necessary to measure both the quality as well as the quantity of noise in and around the site.

Noise Measurement Locations: To assess the noise level of the area, following stations were selected.Location of noise sampling stations is described below and location is shown in**Figure 3.4.**

Table 3.8: Location of Noise Quality Monitoring Stations

Locations	Locations Code	Direction	Distance (In Km)
NQ1	FirozpurBangar	East	1.0
NQ2	Daryapur Kalan	ESE	4.5
NQ3	Khairpur	South	4.6
NQ4	Jhinjholi	ENE	4.0
NQ5	BajitpurThakran	SE	4.5
NQ6	Project Site	Center	-

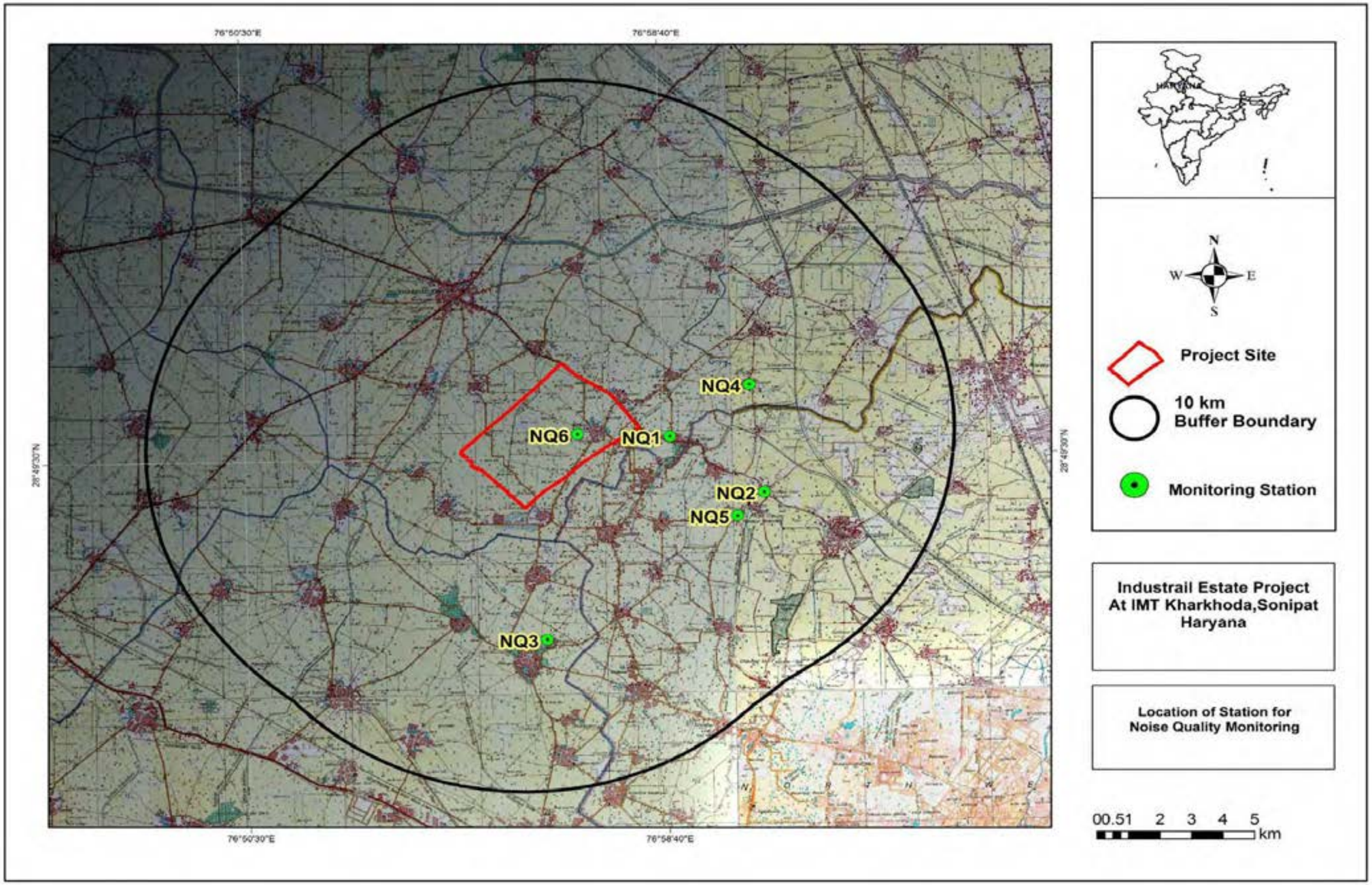


Figure 3.4: Noise Sampling Location

Ambient Noise Standard

Ministry of Environment, Forest and Climate Change (MoEF&CC) has notified the noise standards vide. Gazette notification dated February 14, 2000 for different zones under the Environment Protection Act (1986). These standards are given in Table 3.9.

Table 3.9: Noise Quality DataDecember 2017

S.No.	PROJECT SITE	ZONE	LIMIT (as per CPCB Guidelines), LeqdB (A)		Observed value, Leq, dB (A)	
			DAY*	NIGHT*	DAY*	NIGHT*
1	Firozpur Bangar	Residential Area	55	45	54.8	43.6
2	Daryapur Kalan	SilenceZone	50	40	48.3	39.1
3	Khairpur	Residential Area	55	45	54.2	44.3
4	Jhinjholi	SilenceZone	50	40	49.1	40.6
5	BajitpurThakran	Residential Area	55	45	54.7	44.6
6	Project Site	Industrial Zone	75	65	63.4	55.7

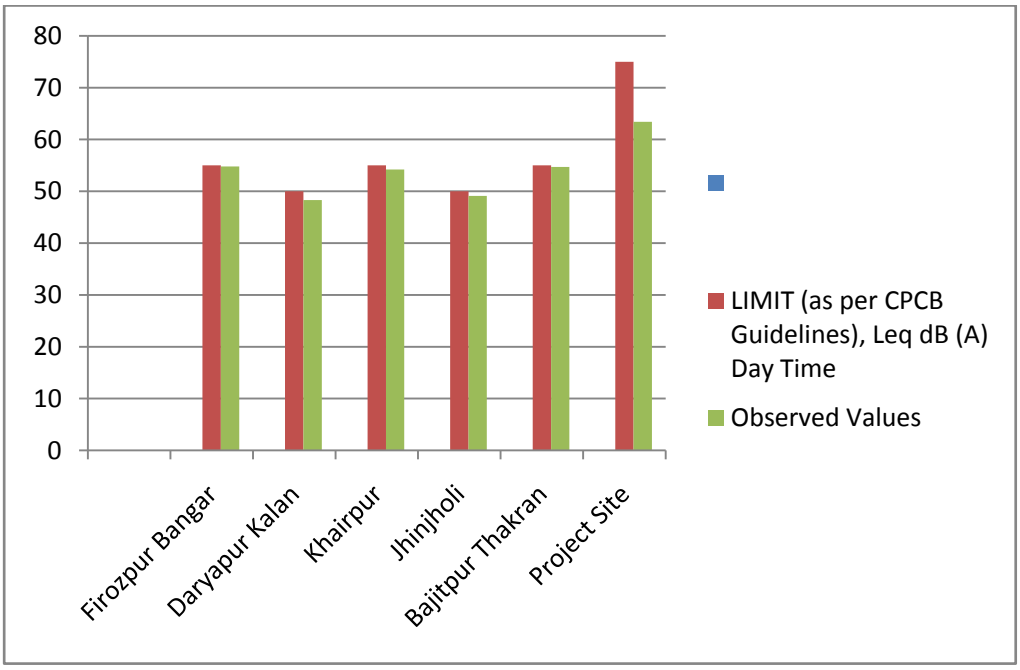


Figure 3.9: Comparison of Observed with permissible values of noise during daytime

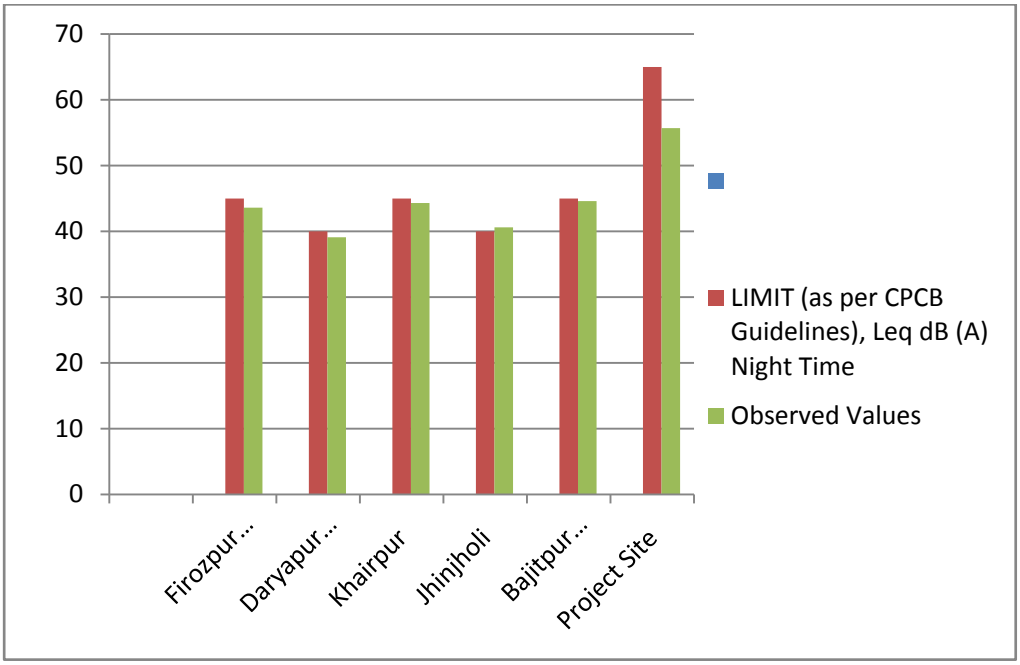


Figure 3.10: Comparison of Observed with permissible values of noise during night

3.5.2 Results and Discussion

Core Zone: Results are summarized in Table 3.9. The ambient noise level at the project site during day was 48.3 –63.4 dB(A), which is within permissible limit of industrial area are ~ 75 dB(A). During night the noise level at the project site was observed to be 39.1 -55.7dB(A), which is also within permissible ambient noise level.

WATER ENVIRONMENT

Water quality assessment is one of the essential components of EIA study. Such assessment helps in evaluating the existing health of water body and suggesting appropriate mitigation measures to minimize the potential impact from projects. Water quality of ground water as well as surface water has been studied in order to assess proposed water-uses in construction, drinking, cooling and horticulture purpose.

The water quality criteria as per CPCB are shown below in Table 3.12. The water quality at 6 locations within the 10 km impact zone was monitored during October- December, 2017.

3.6.1Selection of Sampling Location: To assess the water quality of the area, various water sampling locations/stations were selected including ground water as well as surface water. Location of water sampling stations is described below and locations are shown inFigure 3.5, Figure 3.6.

Table 3.10: Location of Ground Water Monitoring Stations

Locations	Locations Code	Direction	Distance (In Km)
GW1	Project site	Centre	-
GW2	FirozpurBangar	East	1.0
GW3	Jhinjholi	ENE	4.0
GW4	Tarakpur	NNE	4.6
GW5	Khurampur	West	4.0
GW6	Gopalpur	WNW	1.5

Table 3.11: Location of Surface Water Monitoring Stations

Locations	Locations Code	Direction	Distance (in Km)
SW1	Mohammadabad (Upstream)	NE	9.0
SW2	Nahara (Centre)	NE	6.5
SW3	Bawana (Downstream)	ESE	7.4

Sampling Frequency and Sampling Techniques

Samples were studied at monthly intervals in the study period. Quality of ground water was compared with IS: 10500: 1991 (Reaffirmed 1993 with Amendment No.3 July 2010) for drinking purposes. Surface water quality was analyzed for parameters as mentioned in the 'Annexure IV of CPCB guidelines' and it was rated according to the CPCB water quality criteria (Designated Best Use). Water samples were collected in a 5 liter plastic jerry can and 500 ml sterilized clean glass bottles for physio-chemical and bacteriological tests respectively. GW sampling was done after flushing out the source (minimum 10 minutes) to get the fresh ground water and grab sampling method was used. River water samples were collected about 10cm below the water surface. All sampling, preservative and sample handling techniques were in accordance with APHA for examination of water& wastewater/ IS: 3025 (Part-1)/ IS:1622. The samples were analyzed as per Indian Standard /APHA latest edition.

The surface water quality is compared with CPCB water quality criteria mention in Table 3.12.

Table 3.12: Water Quality Criteria as per Central Pollution Control Board

Designated-Best-Use	Class of water	Criteria
Drinking water source without conventional treatment but after disinfection	A	Total Coliforms Organism MPN/100ml shall be 50 or less pH between 6.5 and 8.5 Dissolved Oxygen 6mg/l or more Biochemical Oxygen Demand 5 days 20°C 2mg/l or less
Outdoor bathing (Organised)	B	• Total Coliforms Organism MPN/100ml shall be 500 or less; • pH between 6.5 and 8.5; • Dissolved Oxygen 5mg/l or more • Biochemical Oxygen Demand 5 days 20°C 3mg/l or less
Drinking water source after	C	• Total Coliform Organism MPN/100ml

conventional treatment and disinfection		shall be 5000 or less; • pH between 6 to 9; • Dissolved Oxygen 4mg/l or more • Biochemical Oxygen Demand 5 days 20°C 3mg/l or less
Propagation of Wild life and Fisheries	D	• pH between 6.5 to 8.5 • Dissolved Oxygen 4mg/l or more • Free Ammonia (as N) 1.2 mg/l or less
Irrigation, Industrial Cooling, Controlled Waste disposal	E	• pH between 6.0 to 8.5 • Electrical Conductivity at 25°C micro mhos/cm Max.2250 • Sodium absorption ratio max. 26 • Boron Max. 2mg/l
	Below-E	Not Meeting A, B, C, D & E Criteria

The results of ground water quality assessment are presented inTable 3.13-3.15 and surface water quality is given in Table 3.16-3.18.

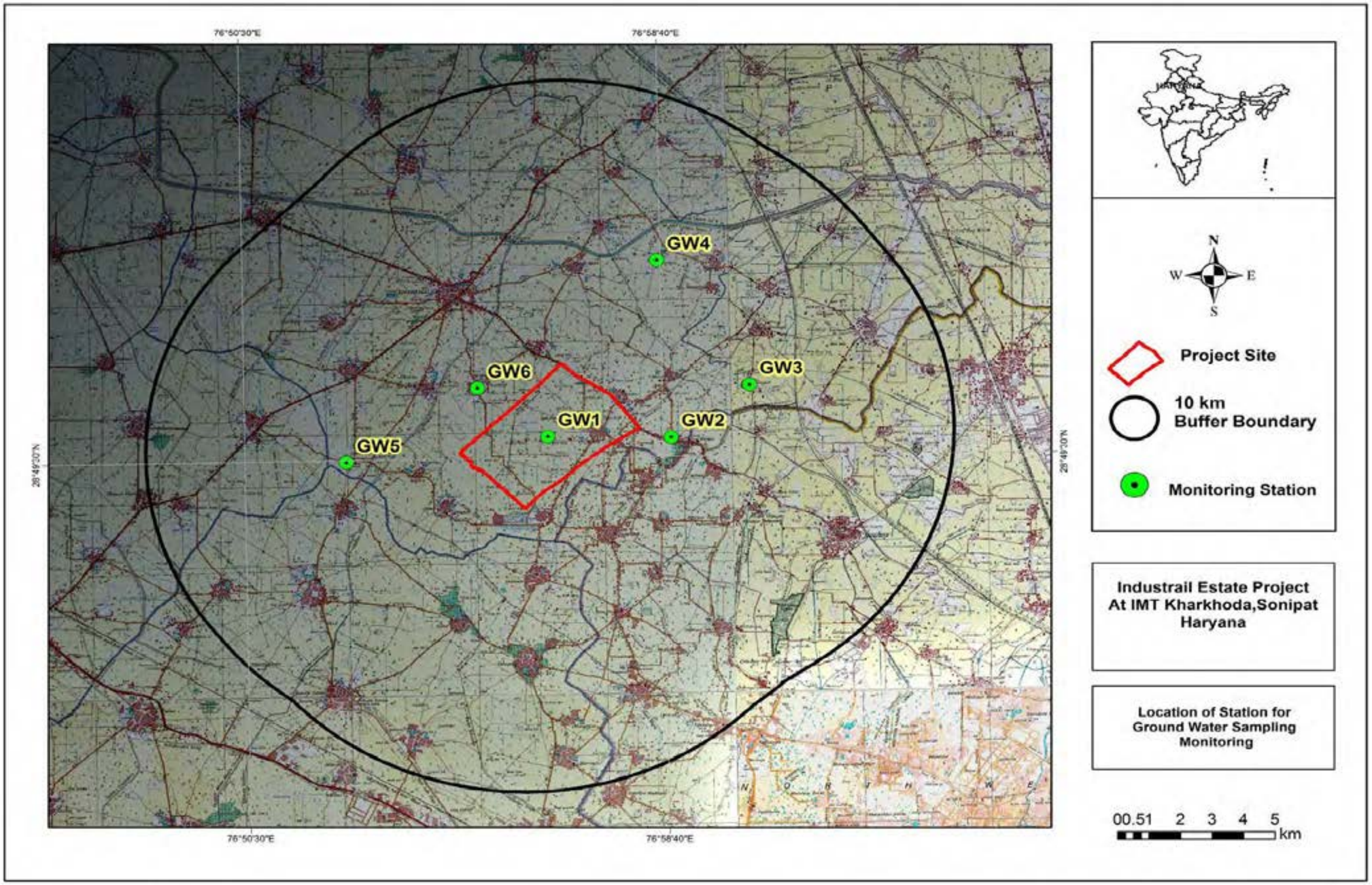


Figure 3.5: Ground Water Sampling Location

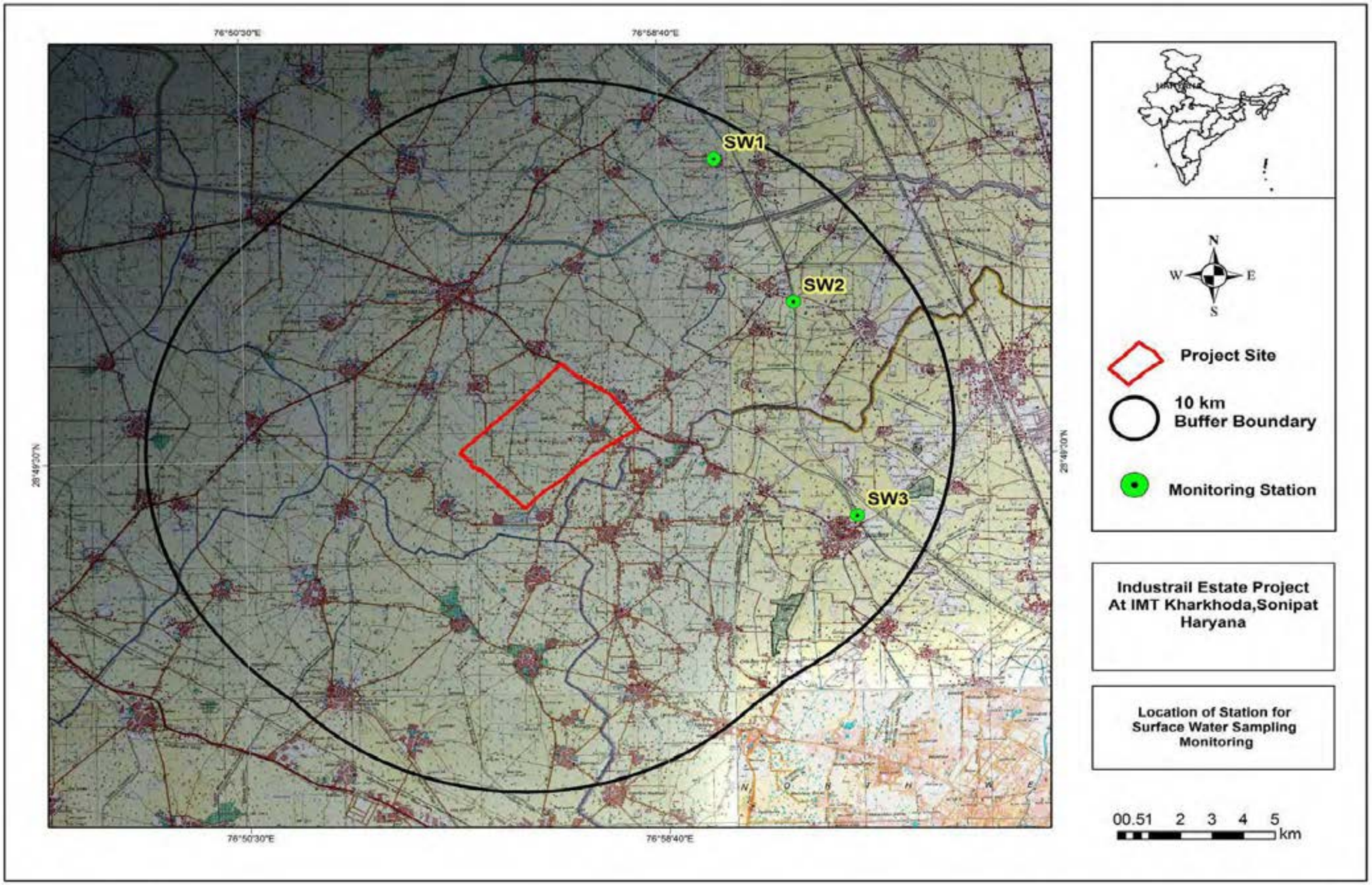


Figure 3.6: Surface Water Sampling Location

Table 3.13: Ground Water Quality inStudy Area during October 2017

Industrial Estate IMT,KharkhodaSonepat HR										
Ground Water Quality Oct – 2017										
S.No	**Parameter**	**Unit**	**Limit (as per IS:10500:2012)**		**GW 1**	**GW 2**	**GW 3**	**GW 4**	**GW 5**	**GW 6**
			Desirable Limit	**Permissible Limit**	**Project Site**	**Firozpur Bangar**	**Jhinjholi**	**Tarakpur**	**Khurampur**	**Gopalpur**
1	Colour	Hazen	5	15	<5	<5	<5	<5	<5	<5
2	Odour	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
3	Taste	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Turbidity	NTU	1	5	3	1	2	2	2	3
5	pH	-	6.5-8.5	No Relaxation	7.89	7.12	8.12	8.06	7.84	8.32
6	Total Hardness (as CaCO3)	mg/l	200	600	456	540	792	618	560	590
7	Iron (as Fe)	mg/l	0.3	No Relaxation	0.08	0.07	0.09	0.1	0.2	0.2
8	Chlorides (as Cl)	mg/l	250	1000	340	360	491	562	470	520
9	Fluoride (as F)	mg/l	1	1.5	0.7	0.8	0.9	0.9	0.7	0.8
10	TDS	mg/l	500	2000	1505	1260	2155	2181	1976	2024
11	Calcium(as Ca2+)	mg/l	75	200	109	129	190	148	134	141
12	Magnesium (as Mg2+)	mg/l	30	100	44	52	76	59	54	57
13	Copper (as Cu)	mg/l	0.05	1.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
14	Manganese(as Mn)	mg/l	0.1	0.3	0.05	0.06	0.06	0.08	0.09	0.07
15	Sulphate (as SO4)	mg/l	200	400	210	196	236	316	350	371
16	Nitrate(as NO3)	mg/l	45	No Relaxation	28	22	29	34	30	31
17	Phenolic Compounds (as C6H5OH)	mg/l	0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
18	Mercury (as Hg)	mg/l	0.001	No Relaxation	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
19	Nickel (as Ni)	mg/l	0.02	No Relaxation	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

20	Selenium (as Se)	mg/l	0.01	No Relaxation	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
21	Arsenic (as As)	mg/l	0.01	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
22	Cyanide (as CN)	mg/l	0.05	No Relaxation	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
23	Lead (as Pb)	mg/l	0.01	No Relaxation	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
24	Zinc (as Zn)	mg/l	5	15	0.8	0.9	1	0.8	0.7	0.8
25	Anionic Detergent (as MBAS)	mg/l	0.2	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
26	Chromium (as Cr6+)	mg/l	0.05	No Relaxation	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
27	Mineral oil	mg/l	0.5	No Relaxation	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
28	Alkalinity (as CaCO3)	mg/l	200	600	510	570	820	610	520	580
29	Aluminum (as Al)	mg/l	0.03	0.2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
30	Boron (as B)	mg/l	0.5	1	0.2	0.2	0.3	0.2	0.2	0.3
	Microbiological Parameter									
1	Total Coliform	MPN/100ml	Shall not be detectable		ND <2	ND <2	ND <2	ND <2	ND <2	ND <2
2	E.coli	E.coli /100ml	Shall not be detectable		Absent	Absent	Absent	Absent	Absent	Absent

Table 3.14: Ground Water Quality in Study Area during November2017

Industrial Estate IMT,KharkhodaSonepat HR										
Ground Water Quality Nov – 2017										
S.No	**Parameter**	**Unit**	**Limit (as per IS:10500:2012)**		**GW 1**	**GW 2**	**GW 3**	**GW 4**	**GW 5**	**GW 6**
			Desirable Limit	**Permissible Limit**	**Project Site**	**Firozpur Bangar**	**Jhinjholi**	**Tarakpur**	**Khurampur**	**Gopalpur**
1	Colour	Hazen	5	15	<5	<5	<5	<5	<5	<5
2	Odour	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
3	Taste	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Turbidity	NTU	1	5	2	1	3	2	1	3
5	pH	-	6.5-8.5	No Relaxation	7.45	7.09	7.94	7.84	7.75	8.02
6	Total Hardness (as CaCO3)	mg/l	200	600	450	530	798	620	564	580
7	Iron (as Fe)	mg/l	0.3	No Relaxation	0.1	0.2	0.1	0.1	0.3	0.2
8	Chlorides (as Cl)	mg/l	250	1000	330	370	480	554	480	510
9	Fluoride (as F)	mg/l	1	1.5	0.9	1.2	0.8	0.9	0.8	0.7
10	TDS	mg/l	500	2000	1490	1267	2120	2146	1966	1994
11	Calcium(as Ca2+)	mg/l	75	200	108	127	191	149	135	139
12	Magnesium (as Mg2+)	mg/l	30	100	43	51	77	59	54	56
13	Copper (as Cu)	mg/l	0.05	1.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
14	Manganese(as Mn)	mg/l	0.1	0.3	0.04	0.06	0.05	0.06	0.07	0.05
15	Sulphate (as SO4)	mg/l	200	400	220	190	230	310	340	365
16	Nitrate(as NO3)	mg/l	45	No Relaxation	30	23	32	32	28	30
17	Phenolic Compounds (as C6H5OH)	mg/l	0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
18	Mercury (as Hg)	mg/l	0.001	No Relaxation	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

19	Nickel (as Ni)	mg/l	0.02	No Relaxation	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
20	Selenium (as Se)	mg/l	0.01	No Relaxation	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
21	Arsenic (as As)	mg/l	0.01	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
22	Cyanide (as CN)	mg/l	0.05	No Relaxation	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
23	Lead (as Pb)	mg/l	0.01	No Relaxation	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
24	Zinc (as Zn)	mg/l	5	15	1	0.8	0.9	0.7	0.8	0.6
25	Anionic Detergent (as MBAS)	mg/l	0.2	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
26	Chromium (as Cr6+)	mg/l	0.05	No Relaxation	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
27	Mineral oil	mg/l	0.5	No Relaxation	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
28	Alkalinity (as CaCO3)	mg/l	200	600	500	560	815	600	570	574
29	Aluminum (as Al)	mg/l	0.03	0.2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
30	Boron (as B)	mg/l	0.5	1	0.3	0.2	0.2	0.2	0.3	0.2
	Microbiological Parameter									
1	Total Coliform	MPN/100ml	Shall not be detectable		ND <2	ND <2	ND <2	ND <2	ND <2	ND <2
2	E.coli	E.coli /100ml	Shall not be detectable		Absent	Absent	Absent	Absent	Absent	Absent

Table 3.15: Ground Water Quality in Study Area during December 2017

Industrial Estate IMT,KharkhodaSonepat HR										
Ground Water Quality Dec – 2017										
S.No	**Parameter**	**Unit**	**Limit (as per IS:10500:2012)**		**GW 1**	**GW 2**	**GW 3**	**GW 4**	**GW 5**	**GW 6**
			Desirable Limit	**Permissible Limit**	**Project Site**	**Firozpur Bangar**	**Jhinjholi**	**Tarakpur**	**Khurampur**	**Gopalpur**
1	Colour	Hazen	5	15	<5	<5	<5	<5	<5	<5
2	Odour	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
3	Taste	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Turbidity	NTU	1	5	2	3	2	2	3	2
5	pH	-	6.5-8.5	No Relaxation	7.22	7.52	8.12	7.22	7.09	8.12
6	Total Hardness (as CaCO3)	mg/l	200	600	456	540	810	616	560	570
7	Iron (as Fe)	mg/l	0.3	No Relaxation	0.2	0.3	0.2	0.2	0.2	0.1
8	Chlorides (as Cl)	mg/l	250	1000	340	376	475	550	500	520
9	Fluoride (as F)	mg/l	1	1.5	0.9	0.8	1	0.7	0.8	0.9
10	TDS	mg/l	500	2000	1505	1290	2140	2178	2086	2025
11	Calcium(as Ca2+)	mg/l	75	200	109	129	194	148	135	137
12	Magnesium (as Mg2+)	mg/l	30	100	44	52	78	59	53	54
13	Copper (as Cu)	mg/l	0.05	1.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
14	Manganese(as Mn)	mg/l	0.1	0.3	0.06	0.07	0.08	0.05	0.06	0.06
15	Sulphate (as SO4)	mg/l	200	400	210	200	240	320	350	370
16	Nitrate(as NO3)	mg/l	45	No Relaxation	32	26	34	34	31	32
17	Phenolic Compounds (as C6H5OH)	mg/l	0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
18	Mercury (as Hg)	mg/l	0.001	No Relaxation	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

19	Nickel (as Ni)	mg/l	0.02	No Relaxation	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
20	Selenium (as Se)	mg/l	0.01	No Relaxation	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
21	Arsenic (as As)	mg/l	0.01	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
22	Cyanide (as CN)	mg/l	0.05	No Relaxation	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
23	Lead (as Pb)	mg/l	0.01	No Relaxation	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
24	Zinc (as Zn)	mg/l	5	15	0.7	0.9	0.8	0.08	0.09	0.09
25	Anionic Detergent (as MBAS)	mg/l	0.2	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
26	Chromium (as Cr6+)	mg/l	0.05	No Relaxation	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
27	Mineral oil	mg/l	0.5	No Relaxation	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
28	Alkalinity (as CaCO3)	mg/l	200	600	510	570	820	620	570	580
29	Aluminum (as Al)	mg/l	0.03	0.2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
30	Boron (as B)	mg/l	0.5	1	0.3	0.3	0.2	0.2	0.2	0.3
	Microbiological Parameter									
1	Total Coliform	MPN/100ml	Shall not be detectable		ND <2	ND <2	ND <2	ND <2	ND <2	ND <2
2	E.coli	E.coli /100ml	Shall not be detectable		Absent	Absent	Absent	Absent	Absent	Absent

Table 3.16: Surface Water Quality in Study Area during October2017

Industrial Estate IMT,KharkhodaSonepat HR					
SURFACE WATER QUALITY (Oct-2017) Yamuna River					
S.No.	**Parameter**	**Unit**	**S.W. 1**	**S.W. 2**	**S.W. 3**
			Mohammadpur	**Nahara**	**Bawana**
1	pH	-	7.09	7.15	7.02
2	Dissolved Oxygen	mg/l	6.9	6.8	7.0
3	BOD (3 Days at 27 °C)	mg/l	3.1	3.8	3.5
4	Free Ammonia (as N)	mg/l	0.2	0.3	0.1
5	Sodium Adsorption Ratio	-	1.83	1.60	2.04
6	Boron	mg/l	0.1	0.2	0.1
7	Conductivity	µmhos/cm	575	596	621
8	Temperature	(°C)	27.2	27.1	27.4
9	Turbidity	NTU	10	12	8
10	Magnesium hardness (as CaCO3)	mg/l	52	58	53
11	Total Alkalinity (as CaCO3)	mg/l	94	104	96
12	Chloride (as Cl)	mg/l	76	82	90
13	Sulphate (as SO4)	mg/l	48	42	47
14	Nitrate (as NO3)	mg/l	0.08	0.07	0.06
15	Fluoride (as F)	mg/l	0.4	0.6	0.5
16	Sodium (as Na)	mg/l	50	46	56
17	Potassium (as K)	mg/l	5.2	4.9	5.6
18	TKN (as N)	mg/l	0.7	0.9	0.6
19	Total Phosphorous (as P)	mg/l	0.006	0.008	0.007
20	COD	mg/l	10	14	12
21	Phenolic compounds (as C6H5OH)	mg/l	<0.001	<0.001	<0.001
22	Lead (as Pb)	mg/l	<0.01	<0.01	<0.01
23	Iron (as Fe)	mg/l	0.11	0.14	0.12
24	Cadmium (as Cd)	mg/l	<0.001	<0.001	<0.001
25	Zinc (as Zn)	mg/l	0.08	0.1	0.09
26	Arsenic (as As)	mg/l	<0.01	<0.01	<0.01
27	Mercury (as Hg)	mg/l	<0.001	<0.001	<0.001
28	Chromium (as Cr)	mg/l	<0.01	<0.01	<0.01
29	Mercury (as Hg)	mg/l	<0.001	<0.001	<0.001
30	TDS	mg/l	345	357	372
	Bacteriological Parameters				
1	Total Coliform	MPN/100ml	540	920	700
2	Faecal Coliform	MPN/100ml	110	170	140

Table 3.17: SurfaceWater Quality in Study Area during November2017

Industrial Estate IMT,KharkhodaSonepat HR					
SURFACE WATER QUALITY (Nov-2017)					
S.No.	**Parameter**	**Unit**	**S.W. 1**	**S.W. 2**	**S.W. 3**
			Mohammadpur	**Nahara**	**Bawana**
1	pH	-	7.74	7.81	7.92
2	Dissolved Oxygen	mg/l	6.8	6.5	6.7
3	BOD (3 Days at 27 °C)	mg/l	3.4	4.1	3.8
4	Free Ammonia (as N)	mg/l	0.12	0.16	0.21
5	Sodium Adsorption Ratio	-	2.02	1.78	1.87
6	Boron	mg/l	0.1	0.1	0.2
7	Conductivity	µmhos/cm	578	632	620
8	Temperature	(°C)	26.4	26.4	26.7
9	Turbidity	NTU	18	20	14
10	magnesium hardness (as CaCO3)	mg/l	50	60	56
11	Total Alkalinity (as CaCO3)	mg/l	102	128	118
12	Chloride (as Cl)	mg/l	74	80	79
13	Sulphate (as SO4)	mg/l	46	40	44
14	Nitrate (as NO3)	mg/l	0.05	0.07	0.06
15	Fluoride (as F)	mg/l	0.5	0.6	0.4
16	Sodium (as Na)	mg/l	54	52	53
17	Potassium (as K)	mg/l	6.2	5.4	5.9
18	TKN (as N)	mg/l	0.6	0.9	0.8
19	Total Phosphorous (as P)	mg/l	0.007	0.005	0.004
20	COD	mg/l	12	15	14
21	Phenolic compounds (as C6H5OH)	mg/l	<0.001	<0.001	<0.001
22	Lead (as Pb)	mg/l	<0.01	<0.01	<0.01
23	Iron (as Fe)	mg/l	0.09	0.11	0.12
24	Cadmium (as Cd)	mg/l	<0.001	<0.001	<0.001
25	Zinc (as Zn)	mg/l	0.06	0.09	0.11
26	Arsenic (as As)	mg/l	<0.01	<0.01	<0.01
27	Mercury (as Hg)	mg/l	<0.001	<0.001	<0.001
28	Chromium (as Cr)	mg/l	<0.01	<0.01	<0.01
29	Nickel (as Ni)	mg/l	<0.001	<0.001	<0.001
30	TDS	mg/l	347	379	372
	Bacteriological Parameters				
1	Total Coliform	MPN/100ml	840	1200	940
2	Faecal Coliform	MPN/100ml	210	240	200

Table 3.18: SurfaceWater Quality in Study Area during December2017

Industrial Estate IMT,KharkhodaSonepat HR					
SURFACE WATER QUALITY (Dec-2017)					
S.No.	**Parameter**	**Unit**	**S.W. 1**	**S.W. 2**	**S.W. 3**
			Mohammadpur	**Nahara**	**Bawana**
1	pH	-	7.11	7.09	7.02
2	Dissolved Oxygen	mg/l	6.2	5.4	6.0
3	BOD (3 Days at 27 °C)	mg/l	2.8	3.2	3.9
4	Free Ammonia (as N)	mg/l	0.2	0.1	0.2
5	Sodium Adsorption Ratio	-	1.53	1.64	1.70
6	Boron	mg/l	0.2	0.2	0.1
7	Conductivity	µmhos/cm	489	573	609
8	Temperature	(°C)	26.1	26.2	26.4
9	Turbidity	NTU	10	16	18
10	magnesium hardness (as CaCO3)	mg/l	48	55	58
11	Total Alkalinity (as CaCO3)	mg/l	98	116	120
12	Chloride (as Cl)	mg/l	58	70	78
13	Sulphate (as SO4)	mg/l	36	39	40
14	Nitrate (as NO3)	mg/l	0.06	0.07	0.04
15	Fluoride (as F)	mg/l	0.4	0.6	0.5
16	Sodium (as Na)	mg/l	40	46	49
17	Potassium (as K)	mg/l	4.6	5.2	5.8
18	TKN (as N)	mg/l	0.8	0.7	0.7
19	Total Phosphorous (as P)	mg/l	0.006	0.007	0.005
20	COD	mg/l	10	12	16
21	Phenolic compounds (as C6H5OH)	mg/l	<0.001	<0.001	<0.001
22	Lead (as Pb)	mg/l	<0.01	<0.01	<0.01
23	Iron (as Fe)	mg/l	0.12	0.11	0.14
24	Cadmium (as Cd)		<0.001	<0.001	<0.001
25	Zinc (as Zn)	mg/l	0.07	0.08	0.05
26	Arsenic (as As)	mg/l	<0.01	<0.01	<0.01
27	Mercury (as Hg)	mg/l	<0.001	<0.001	<0.001
28	Chromium (as Cr)	mg/l	<0.01	<0.01	<0.01
29	Nickel (as Ni)	mg/l	<0.001	<0.001	<0.001
30	TDS	mg/l	293	343	365
	Bacteriological Parameters				
1	Total Coliform	MPN/100ml	1100	1600	1400
2	Faecal Coliform	MPN/100ml	350	460	580

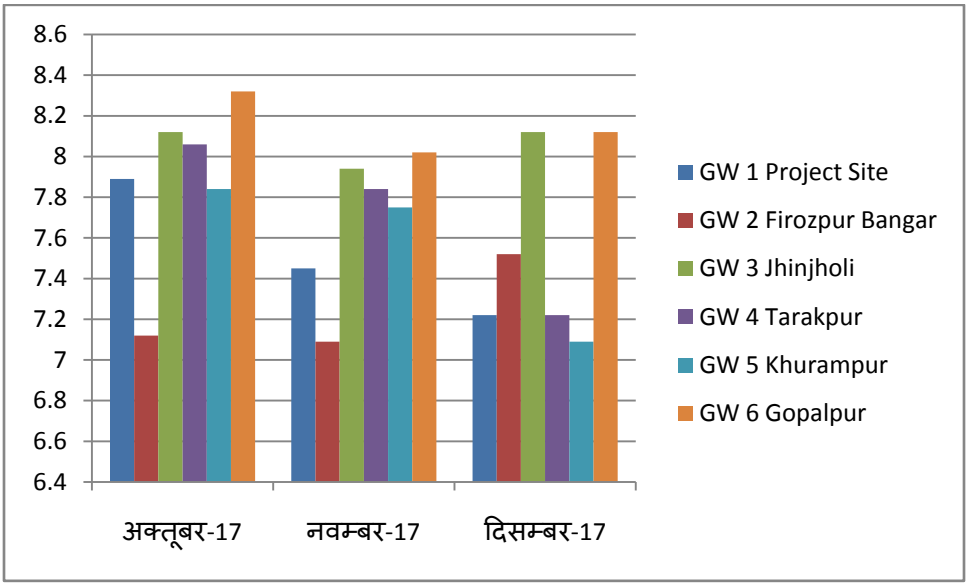


Fig:3.7 Variation in pH values of ground water at monitoring sites (Oct-Dec 2017)

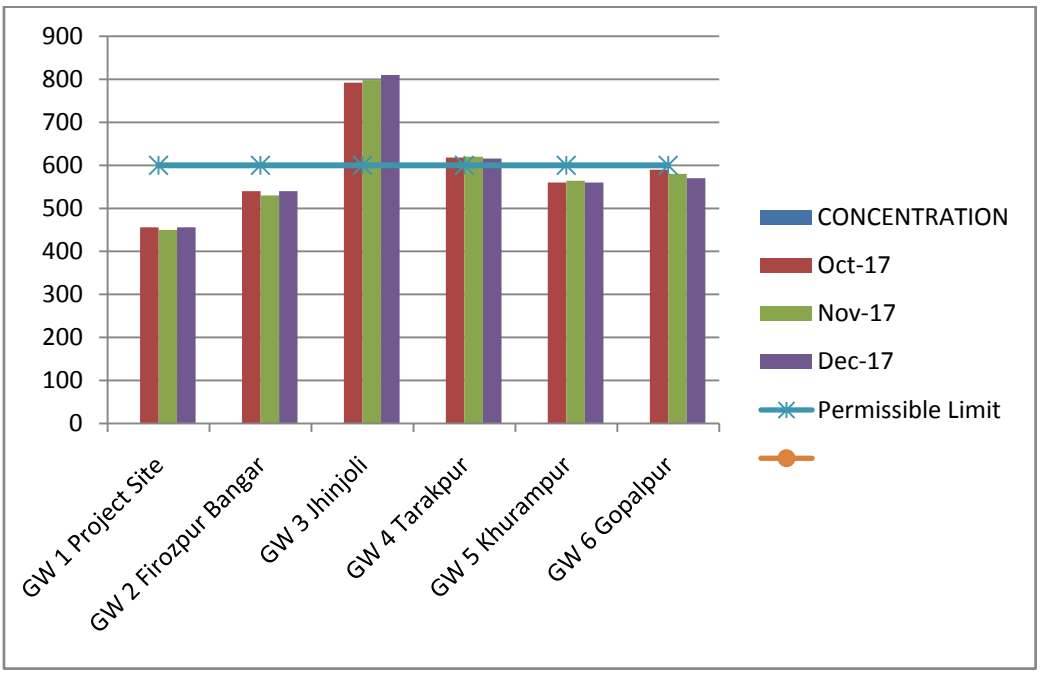


Fig:3.8 Hardness variation of ground water at different monitoring stations (Oct-Dec 2017)

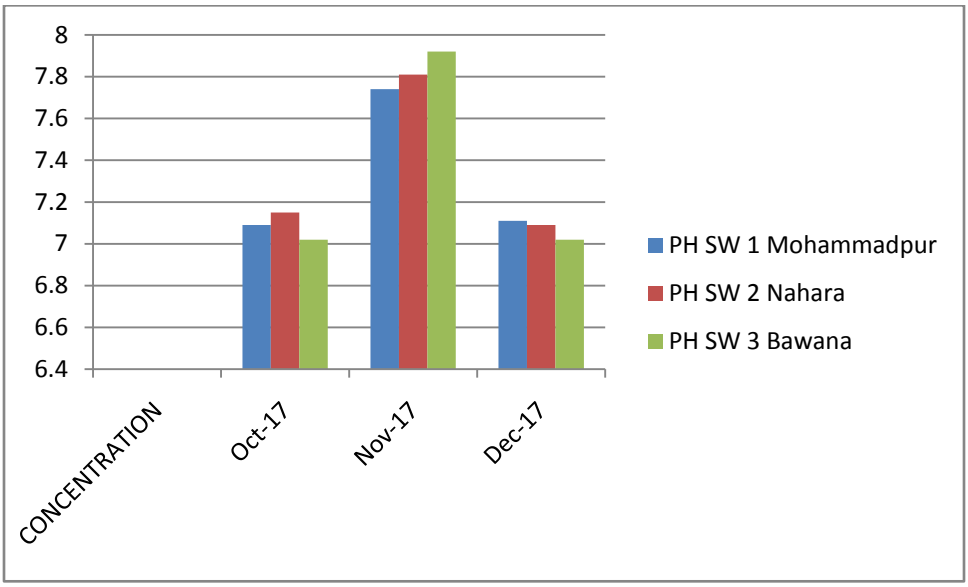


Fig: 3.12 PH variation of surface water at different months (Oct-Dec 2017)

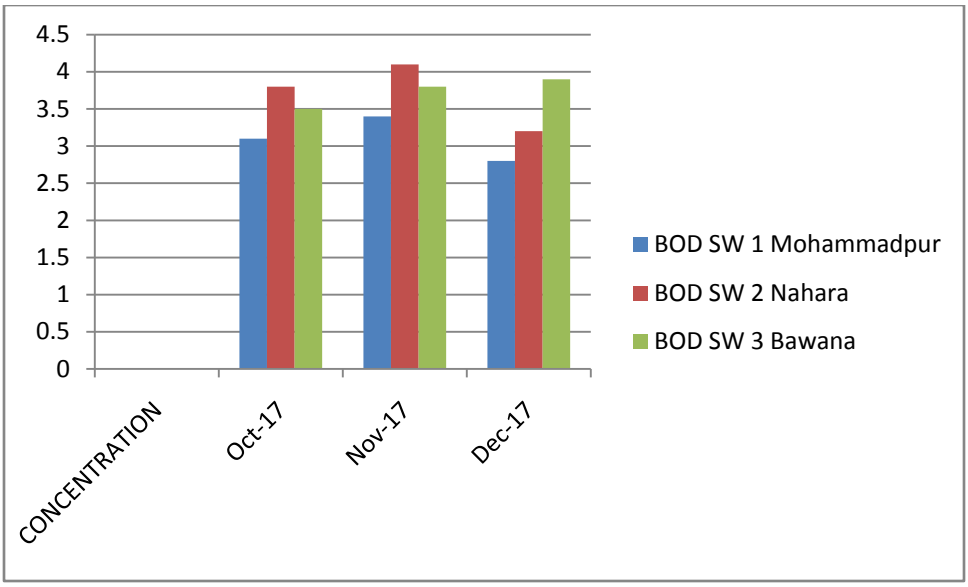


Fig: 3.13BOD variation of surface water at different months (Oct-Dec 2017)

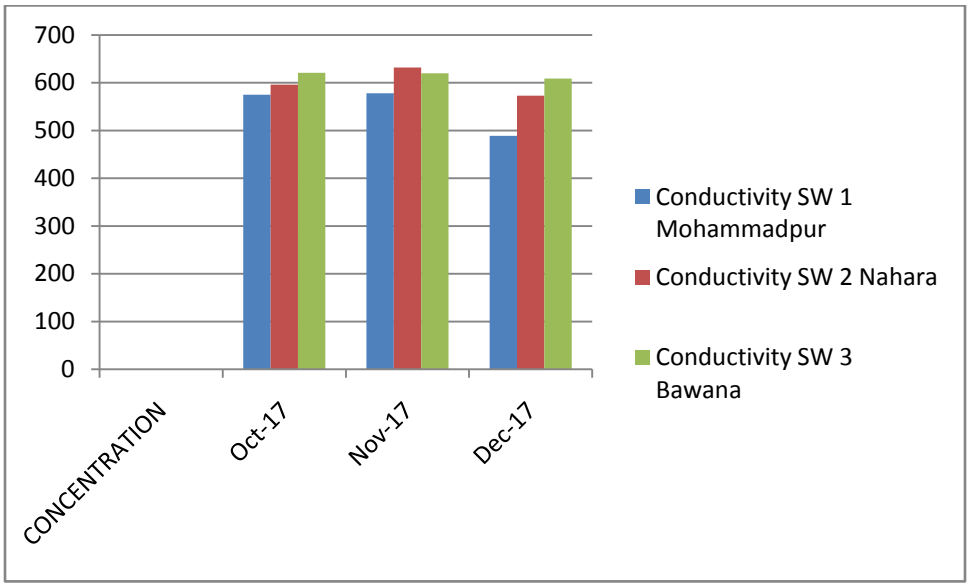


Fig: 3.14 Conductivity variation of surface water at different months (Oct-Dec 2017)

RESULTS AND CONCLUSION

Core zone is taken as project site. From the Table it is clear that ground water is neutral (pH 7.09-8.32). Chloride (330-562 mg/l)are in desirable limits while other parameters like Hardness (450-810 mg/l), T.D.S (1260-2181 mg/l), Calcium (108-194 mg/l) and Magnesium (43-78 mg/l) are also on higher side than the desirable drinking water standards. Water can be used for domestic purposes after treatment with RO and using disinfectant.

Comparing the values of pH, DO, BOD and total coli forms with 'use based classification of surface waters' published by Central Pollution Control Board; it can be seen that the analysed surface waters can be compared with class 'D' and can be used as Propagation of Wild life and Fisheries. Bacteriological examination of surface water indicates the presence of total coli forms, which may be due to human activities observed during the study period.

3.6. BIOLOGICAL ENVIRONMENT

Introduction

Biodiversity reflects the potential of a regional ecosystem and biota of a particular area is considered as indicators of environmental conditions. Biological diversity comprises the variability of genus, species and ecosystems and is very crucial for maintaining the basic processes on which the life depends. Biological communities (Flora and Fauna) influence and react sensitively to changes in the balance of environmental stresses. On the basis of biological physiology biodiversity broadly can be divided into two category *i.e.* the floral diversity and faunal diversity.

Conservation of the biodiversity is essential for the sustainable development as it not only provides the food, fodder and medicine, but also contributes to improvement of essential environmental attributes like air, water, soil, etc. Before starting any Environmental Impact Assessment study, it is necessary to identify the baseline of relevant environmental parameters which are likely to be affected as a result of the operation of the proposed project. A similar approach has been adopted for conducting the study on Biological Environment for this Project. Both terrestrial and aquatic ecosystems have been studied to understand the biological environment nearby the project site.

The study was conducted in the project area to assess all possible consequences on the biological environment. The present study is highlighting the various issues pertaining to floristic diversity and the faunal wealth in the core area *i.e.* Industrial Model Township Project at Kharkhora, District Sonepat (Haryana) and buffer zone *i.e.* area within 10 km radius.

Description of Study Area

Industrial Model Township Project is executed over an area of 3217.19 acres and located near Kharkhora Tehsil of District Sonepat (Haryana) under the Seismic Zone-IV as per IS 1893 (Part I): 2002.

The present project area is surrounded by agriculture land along with some human settlements. The main crop of the area is Paddy followed by millets (Marua, Gondli and Maize), pulses, wheat oilseed (Sarguja and groundnut) and vegetables. Sonepatdistrict lies under the tropical climatic condition. The district comprises of tropical moist deciduous vegetation due to high temperature and humidity. Any Eco-sensitive zone, Wildlife sanctuary and National Parks are not present within the buffer area

(10 km) as protected by Wildlife Protection Act (1972). Location of present construction project (IMT) in the buffer map is shown in Fig. 1.

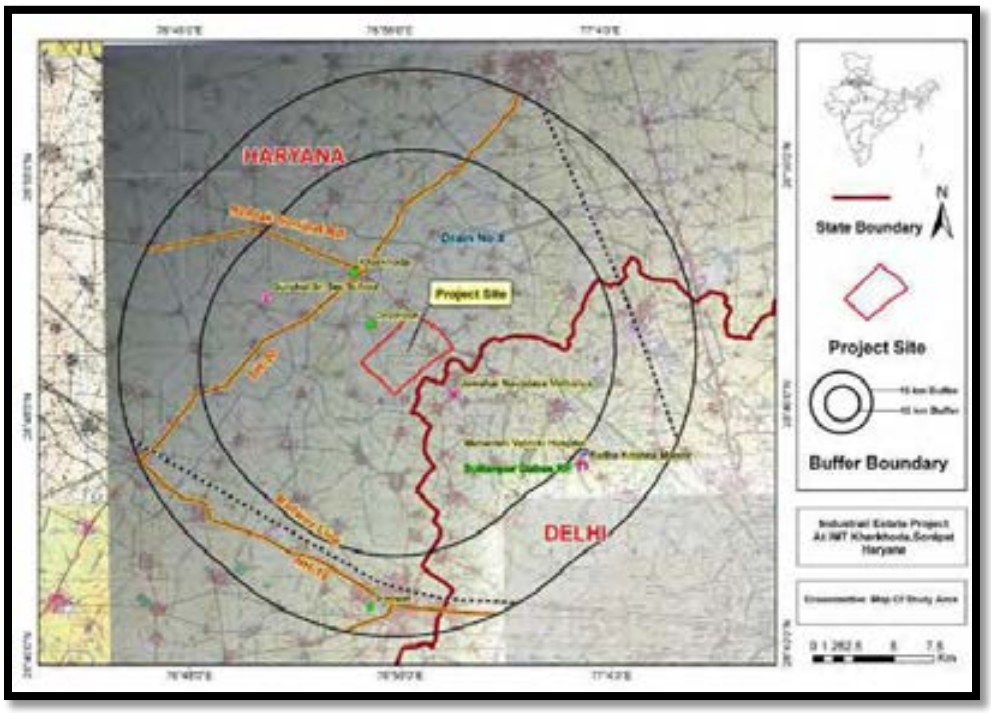


Fig. 1: Location Map of Industrial Model Township Project

Climate

The average rainfall in the Sonepat district recorded is 400-700 mm. The district received most of the rainfall during June to September the months. The district is characterized by a warm climate in March to June and later on there is a gradual decline in temperature from October onwards to December. December and January is the coolest months of the year in Sonepat. March, April and May are the hot and dry months of the district. During winter season the district records temperature between 7.3 to 21.3 °C while, during summer the temperature ranges from 26.6° to 47° C.

Soil

Sonepatdistrict has conspicuously flat topography. The district area is occupied by Indo-Gangetic alluvium. The soils of the district are fine to medium textured. It comprises sandy loam in with high potassium, medium phosphorus and low nitrogen. The soils of the district are classified as arid brown (Solemnized) and Sierozem.

Drainage

The district Sonepat is situated in the Yamuna River Basin. The drainage of the district is typical of the arid and semi-arid areas. It comprises of large depressions and streams. The drainage is peculiarly complex owing to most of the streams tending to converge towards inland depressions instead of flowing into Yamuna. The district drained into the Yamuna though various seasonal riverine channels.

Methodology

Period of Sampling

The ecological survey has been conducted during Post monsoon season for the collection of primary data of flora-fauna, vegetation, soil and other environmental observations. The details are given as below:

Post-monsoon: October to December
Core zone : At the project site
Buffer zone : Around 10 km radius of the project site

Mode of Data Collection

Detailed survey was conducted to evaluate floral and faunal composition of the study area. Primary data on floral and faunal composition was recorded during site visit and secondary data was collected from the Forest Department and published relevant literature. Inventory of flora and fauna has been prepared on the basis of collected data. The mode of data and parameters considered during field investigations is given in Table **3.1.**

Table 3.1: Mode of Data Collection & Parameters Considered During the Survey

Aspect	Data	Mode of Data Collection	Parameters Monitored
Terrestrial Ecology	Primary data collection	By field survey	Floral and Faunal diversity
	Secondary data collection	***** Forest Department of Haryana, *****An official website of district administration Sonepat	Floral and Faunal diversity, Types of vegetation, forest type, Importance etc.

Biological Component of Core Zone

Flora

The core zone comprises flat land where construction operation is proposed. Some small shrubs, herbs and Jhari are observed in the proposed construction area which is mainly composed of Neem, Mango, Babool, Ber, Sisham, Safeda along with seasonal grasses etc. The project shall also not lead to any change in landuse of surroundings except proposed construction area.

Fauna

Core zone of the proposed construction project is located on flat land. During the field survey, some common domesticated mammal grazing animals like cow, goat and buffaloes etc. Permanent habitat of mammals and avifauna in the core zone were not observed. There is no any aquatic habitat in the core zone, so aquatic fauna also does not exist in the proposed construction area.

Biological Component of Buffer Zone

Flora

Forests

In Sonepat district, the total forest area is 10 sq. km which is 0.47% of the total geographical area of the district. The forest of the district comprises of tropical moist deciduous vegetation due to high temperature and humidity. National Parks, Sanctuary or Ecologically sensitive areas within the 10 km periphery of the proposed construction area are not present.

Vegetation in and Around Human Settlement

Vegetation pattern in villages and surrounding areas in the Sonepat district are slightly different from the rest of the areas. Most of the area of Sonepat district is agriculture and barren land without major vegetation. The common species grown near villages are mostly edible or useful plants are *Artocarpusintegrifolia, Azadirachtaindica,Delonixregia*, *Eucalyptus* sp., *Ficusreligiosa*, *Mangiferaindica*, *Madhucaindica, Sizygiumcumini* and *Tamarindusindica*etc.

Terrestrial Flora of the Buffer Zone

Buffer zone of the present project is mainly agricultural land. The most common plant species observed in the buffer zone are listed in Table 3.3.

Table 3.3: Vegetation of Buffer Zone of Present Project, District Sonepat

Sl. No.	Scientific name	Local name	Family
Plants			
1	*Acacia arabica*	Babul	Leguminosae
2	*Aegle marmelos*	Bel	Rutaceae
3	*Anogeissuslatifolia*	Dhaora	Combretaceae
4	*Azadirachtaindica*	Neem	Meliaceae
5	*Bassialatifolia*	Mahua	Sapotaceae
6	*Bombaxmalabaricum*	Semal	Malvaceae
7	*Butea frondosa*	Palas	Leguminosae
8	*Dalbergialatifolia*	Shisham	Leguminosae
9	*Eugenia jambolana*	Jamun	Myrtaceae
10	*Feronia elephantum*	Kaith	Rutaceae
11	*Gmelinaarborea*	Gamari	Verbenaceae
12	*Mangiferaindica*	Aam	Anacardiaceae
13	*Schleicheratrijuga*	Kusum	Sapindaceae
14	*Spondiasmangifera*	Amra	Anacardiaceae
15	*Tamarindusindica*	Imli	Leguminosae
16	*Tectonagrandis*	Sagon	Verbenaceae
17	*Terminalia belerica*	Bahera	Combretaceae
Shrubs			
1	*Achyranthesaspera*	Apamarg	Amarantaceae
2	*Calotropisgigantea*	Aak	Asclepiadaceae
3	*Eugenia heyneana*	Kath Jamun	Myrtaceae
4	*Lantana camara*	Raimunia	Verbenaceae
5	*Woodfordia floribunda*	Dhawai	Lythraceae
6	*Zizyphusrugosa*	Churna	Rhamnaceae
7	*Zizyphusrotundifolia*	Jharberi	Rhamnaceae
Grasses			
1	*Cymbopogon martini*	Rusa	Gramineae
2	*Cynodondactylon*	Doob	Gramineae
3	*Echinochloacolonum*	Sama	Gramineae
4	*Eragrostistenella*	Bhurbhusi	Gramineae
5	*Heteropogoncontortus*	Kusul	Gramineae
6	*Imperatacylindrica*	Chhir	Gramineae
7	*Saccharummunja*	Munj	Gramineae
Source: GRC survey data supported by Department of Forest, Haryana.			

Aquatic Flora of the Buffer Zone

There is no any perennial lentic and lotic water body present in the buffer area. So, aquatic flora and fauna are not observed during present survey.

Fauna of the Buffer Zone

The major part of the buffer zone of present project lies under agriculture field which restrict the wildlife habitat significantly. There is no any wildlife sensitive corridor is present for the movement of wildlife animals. A list of animals of the study area has been prepared on the basis of present survey, inquiry from local people and from the available published literatures. The animals thus recorded were cross checked with Wildlife Protection Act (1972) for their schedule.

Mammals

Domesticated mammal species like Cow, Goat and Buffalo etc. were noticed in the buffer zone. During present survey and Inquiry from village people regarding wild animals reveals that Fruits bat and Indian Fox etc. are often seen in the area. List of Mammal species present in the buffer zone is given in Table 3.4.

Table 3.4: Mammal Species Found in Buffer Zone of Present Project, District Sonepat

S. No.	Scientific name	Common name	Schedule Status (WPA,1972)	IUCN Status
1	*Canis*sp.	Indian Pariah Dog	II	LC
2	*Funambuluspalmarum*	Three-striped Squirrel	IV	LC
3	*Herpestesedwardsi*	Common Mongoose	IV	LC
4	*Mus booduga*	Indian Field Mouse	V	LC
5	*Rattusrattus*	Indian House Rat	V	LC
6	*Suncusmurinus*	Grey musk Shrew	IV	LC
7	*Tateraindica*	Indian Gerbille	IV	LC
8	*Vandeleuriaoleracea*	Long-tailed Tree Mouse	V	LC
9	*Vulpesbengalensis*	Indian Fox	II	LC
Source: GRC Survey Data supported by Department of Forest, Haryana.				
IUCN Red list: NA: Not Applicable**, LC:** Least Concern**.**				

Reptiles and Lizard

During the present survey period some of the reptiles and lizard species were recorded in the buffer zone of the present proposed construction area while some information were also noted down by verbal communication of the people living surroundings in the buffer area. List of reptiles and lizard species observed in the buffer area have been given in Table 3.5.

Table 3.5: Reptiles and Lizard Species Present in Buffer Zone of Proposed Project

Sl. No.	Common name	Scientific name	Schedule Status (WPA,1972)	IUCN Status
1	Common Krait	*Bungaruscaeruleus*	IV	NA
2	Banded Krait	*Bungarusfasciatus*	IV	NA
3	Red Sand Boa	*Eryxjohnii*	-	NA
4	Indian Cobra	*Najanaja*	II	LC
5	Rat Snake	*Ptyasmucosus*	II	NA
Lizards				
1	Rock Lizard	*Agama buberculatus*	-	DD
2	Chameleon	*Chamelioncalcarata*	II	DD
3	Indian House Gecko	*Hemidactylusflaviviridus*	-	DD
Source: GRC Survey Data supported by Department of Forest, Haryana. **IUCN Red list: DD:** Data Deficient**, LC:** Least Concern**.**				

Avian Fauna

During the present investigation it was observed that the various avian fauna are moving across the proposed construction project area in the buffer zone. But, no fixed pattern in migratory behaviour is noticed. No bird's habitats like nesting, breeding and forging patterns are noticed in the core zone as well as buffer zone. A list of birds observed in the buffer zone of proposed Industrial Model Township Project is given in Table 3.6.

Table 3.6: Avian Fauna Present in the Buffer Zone of proposed Construction Project

SL. No	English Name	Scientific Name	Schedule Status (WPA,1972)	IUCN Status
1	Jungle Myna	*Acridotheresfuscus*	IV	LC
2	Common Myna	*Acridotherestristis*	IV	LC
3	Common Kingfisher	*Alcedoatthis*	IV	LC
4	House Swift	*Apus nipalensis*	IV	LC

5	Spotted Owlet	*Athene brama*	IV	LC
6	Red-rumped Swallow	*Cecropisdaurica*	IV	LC
7	Purple Sunbird	*Cinnyrisasiaticus*	IV	LC
8	Rock Pigeon	*Columba livia*	IV	LC
9	House Crow	*Corvussplendens*	IV	LC
10	Common Quail	*Coturnixcoturnix*	IV	LC
11	Indian Cuckoo	*Cuculusmicropterus*	IV	LC
12	White Wagtail	*Motacilla alba*	IV	LC
13	House Sparrow	*Passer domesticus*	IV	LC
14	Jungle Bush Quail	*Perdiculaasiatica*	IV	LC
15	Grey Bushchat	*Saxicolaferreus*	IV	LC
Source: GRC Survey supported by data of Department of Forest, Haryana. **IUCS Status- LC:** Least Concern**, EN:** Endangered**, NT:** Near Threatened.				

Agricultural Land

Agriculture is the predominant occupation in Sonepat District but it mostly dependent on monsoon. This region is characterized as low rainfall and dry with vast marginal lands. Agro-climatically a number of crops can be grown in Sonepat district but major portion of cultivable land is occupied by wheat, paddy, sugarcane, bajra and arhar.

Fishery

The Haryana State has very good water resources in the shape of rivers, canals, drains, natural and manmade lakes, reservoirs, micro-water sheds and village ponds to enable promotion of fisheries. But, Sonepat district is very poorly blessed with water resources. Fish culture in Haryana is little difficult due to non-availability of fishermen community and mostly vegetarian population. The fisheries sector has been recognized as a powerful income and employment generator as it stimulates growth of a number of subsidiary industries and is a source of low cost animal protein to the people particularly to the economically weaker sections of the society and thereby it is an advantageous position to ensure national food security.

Occurrence of Schedule-I and Rare, Endangered and Threatened Species (RET)

Overall studies of Industrial Model Township Project at Kharkhora (District Sonepat) reveal that, Schedule-I species as well as plant species under the category of RET were not observed from the buffer and core zone. However, all care will be taken for protection of others flora & fauna also, if any in the lease hold area.

3.7. SOCIO ECONOMIC IMPACT ASSESSMENT

INTRODUCTION

Socio-Economic Impact Assessment (SEIA) refers to the systematic analysis of various social and economic characteristics of the human beings living in the geographical area/study area around the proposed project location. SEIA is carried out separately but concurrently with Environment Impact Assessment (EIA). The study area consists of core and buffer area around the project site. The SEIA focuses on the likely effects of the project on social and economic well-being of the community. The impact(s) may be direct or indirect, positive or negative.

In this section of the EIA Report an attempt has been made to assess the Socio-Economic Impact of the project **'INDUSTRIAL MODEL TOWNSHIP** located in village Kharkhoda, in the district Sonepat of Haryana State.

OBJECTIVES OF SEIA

The prime objective of the current study is to assess the likely impact of the proposed project on socio-economic characteristics of people living in the study area. Further, it is to be established whether the impact would be direct or indirect. Furthermore, it is to be examined whether the said impact would be positive or negative. Lastly, it is to be comprehended if the impact is positive how long it would sustain or if it is negative how soon the same could be eased.

SCOPE OF THE STUDY

The Scope of the study is as follows:

a) To collect baseline data of the study area
b) To comprehend socio-economic status of the people living in the study area.
c) To assess the probable impact of the project on social and economic aspects in the study area.
d) To evaluate the likely impact of the project on Quality of Life of the people living in the study area.
e) To ensure sustainability of the positive impact.
f) To suggest mitigation measures and agency responsible for taking action in case of adverse impact.

METHODOLOGY

For Socio-Economic Impact Assessment of the proposed project, GRC India carries out systematic analysis of the various socio-economic characteristics, both in terms of quality and quantity. Accordingly, both qualitative and quantitative data was collected from secondary sources. The secondary data was collected from the published data/information of the Census Authority. Records of the state and district administration were also referred to.

For collection of primary data, a sample survey was conducted in the study area. In each selected habitation, a specified number of representative households were selected scientifically for collection of information from the head of the household or any responsible member of the family.

- **Census-cum Sample Survey in the Core Area**

As the likely project impact(s) will traverse a domino alley with greatest impacts in the core area which diminish progressively when moving away from the core to the buffer of the study area, a Census-cum-Sample Survey was conducted in the core area for the collection of socio-economic data. It is treated as a census survey because all the habitations located in the core area were surveyed for the collection of information. Further, in each habitation a household survey was conducted by drawing representative samples from the habitations by adopting the sample survey approach as collection of information from all the households in a habitation is time consuming and expensive.

- **Sample Survey in the Buffer Area**

In the buffer areas where the impact of the project progressively reduces with the distance from the project area, two stage sample design was adopted. The first stage units were census village(s)/towns(s) and ultimate stage units were households.

- **Sample Size**

The sample size at each level (village and household) was decided by using the formula $n = \sqrt{\{(1.96 * \sigma)/\Delta\}}$; where n = Sample size, 1.96 is the Table Value of Confidence Limit, σ = Standard Deviation and Δ = Degree of Precision.

- **Selection of First Stage Units (Villages/Towns)**

In the study area the sample villages were selected from the list of Census villages/towns by adopting the method of Probability Proportional to Size (PPS), the size being number of households in a given village/town.

- **Selection of Ultimate Stage Units (Households)**

The sample households were selected from the list of households by adopting the method of Circular Systematic Sampling. This method was adopted since the sampling frame i.e. the list of households was readily available.

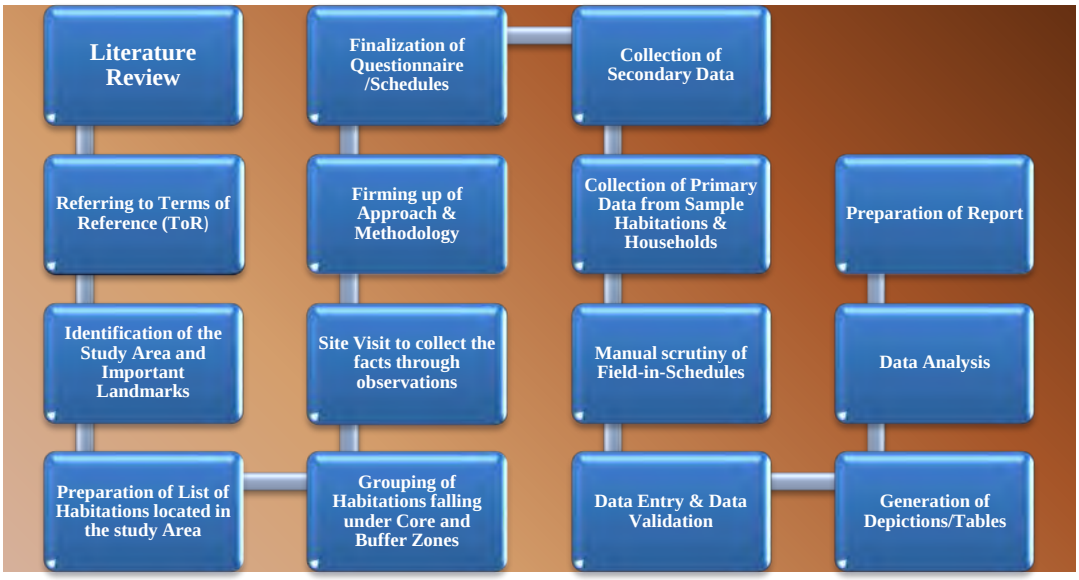
SURVEY INSTRUMENTS

The following Schedules/Questionnaires were developed for collection of primary data from the households and villages/towns:

- Schedule/format for Village/Town Particulars
- Questionnaire for Household Details and project perception

Each of these data/information instruments has segment blocks and there are both open-ended and closed-ended questions.

CRONOLOGY OF VARIOUS STEPS TO PREPARE THE SEIA REPORT IS AS UNDER:



Project Location and Study Area

The Industrial Model Township Project is located at village Kharkhoda, of district Sonepat in the state of Haryana and these are the villages which are to be affected by way of development of the area of IMT, Kharkhoda. The project covers an area of 3217.19acres. The project site has good connectivity with the road, rail and air network. The SH-18 is adjacent to the project site whereas the Narela Railway Station is 9 km in the ENE direction of the site. The Indira Gandhi International Airport is situated at a distance of 35 km in the SSE direction of the site.

The study area for the project is spread across a 10 km radius around the project site. The habitation in this area is largely agricultural. The land use pattern of this area shows area under settlements of only 7.05% with the major segment being agriculture land with a share of 87.02%.

The segment-wise land use pattern of the study area is represented in the table given below:

LAND USE CLASS	**AREA (Ha)**	**AREA (Sq. km)**	**AREA In Percentage %**
Settlement	3396.04	33.9604	7.05
Water bodies	255.74	2.5574	0.53
Vegetation	133.94	1.3394	0.28
Forest	232.8	2.328	0.48
Open Scrub	1599.84	15.9984	3.32
Open Land	629.4	6.294	1.32
Agricultural land	41900.74	419.0074	87.02
TOTAL	**48148.5**	**481.485**	**100**

BASELINE DATA

The baseline data with respect to population and basic amenities & infrastructure available in the study area is as under:

I. Demographic Details

According to Census of India- 2011, the study area has total population of 14,50,001 which are housed in 417,434households. Of the total population, 53.88 per cent are males and remaining

46.12per cent are females. The sex ratio of the study area has been worked out to 856 females per 1,000 males.

The total child population of 0-6 age group has been worked out to 188,262which comprise around 12.08 per cent participation in the total population. The sex ratio of this age group has been worked out to 789 females per 1,000 males.

Further, the study area has *Scheduled Caste* population of 269,935 which comprise 18.61 per cent of the overall population of the study area. Of this, participation of male and female population is 53.53 and 46.47 per cent respectively.

In the study area, total number of literates are 4,29,007.Of the total literates, 56.9 per cent are males and remaining 43.1 per cent are females.

The overall literacy rate has been worked out to 79.1 per cent. The male literacy rate is 87.2 per cent as against women literacy rate of 69.8 per cent. This has created a gender gap of 17.4 per cent in the literacy rate.

Total number of workers in the study area is 523,179which constitute 36.08 per cent of the total population. Of the total workers, 82.3 per cent are males and remaining 17.7 per cent are females which creates a gender gap of 64.6 per cent in work participation rate.Out of the total workers (Main & Marginal) 27.2 per cent have been reported as Cultivators, 19.4 per cent have been reported as Agricultural Labourers, 3.5 percent have been reported as HHI workers and 49.9 per cent have been reported as Other Workers.

A tabulation of the salient features of the demographic profile along with the amenities and social infrastructure of the study area is presented in the table below:

Table: Demographic Particulars/Population Details of the Study Area

S. No.	Description	Number	Percentage to Respective Total
1	**Gender wise Total Population**	**14,50,001**	**100.0**
	Male	781,299	53.88

	Female	668,702	46.12
	Sex Ratio	856	
2	**Total Population (0-6 age group)**	**188,262**	**100.0**
	Sex Ratio	789	
3	**Scheduled Caste Population**	**2,69,935**	**100.0**
	Male	1,44,496	53.53
	Female	125,419	46.47
4	**No. of Households**	**417,434**	
	Overall Literacy Rate	**79.1**	
	Male	87.2	
	Female	69.8	
	Gender Gap in Literacy Rate	17.4	
8	**Total Workers**	**523,179**	**100.0**
	In Rural Areas	376,188	
	In Urban Areas	146,991	
9	**Main Workers**	**27.36**	
10	**Marginal Workers**	**63.92**	
11	**Household Industrial Workers**	**3.5**	
12	**Agricultural Workers**	**19.4**	
13	**Cultivators**	**27.2**	
15	**'Other Workers'**	**49.9**	

SOURCE: CENSUS OF INDIA- 2011.

II. Amenities & Social Infrastructure

EDUCATION	
Educational Institutions (Including Professional Institutions)	Pre-primary School (Pvt.)
	Primary School (Gov. & Pvt.)
	Middle School (Gov. & Pvt.)
	Secondary School (Gov. & Pvt.)
	Senior Secondary School (Gov. & Pvt.)
	Vocational Training School –ITI (Gov.)
	Higher Education Institutions
	Engineering Colleges (Pvt.)

	Polytechnic College (Pvt.)	
	Management Institution (Pvt.)	
HEALTH		
Health Institutions	Primary Health Centre/ Sub-Centre	
	Maternity & Child Welfare Centre	
	Allopathic Dispensary	
	Veterinary Hospital	
	Family Welfare Centre	
	Community Health Centre	
	ASHA	
WATER		
Drinking Water Sources (Tap and Hand pump is the major source of drinking water)	Tap	Tube well
	Un-covered Well	River /Canal
	Hand pump	Tank/Pond/Lake
SANITATION		
Sewer/Drainage System	Open Pucca Drainage System (Uncovered)	
	Piped sewer system	
	Septic Tank	
	Pit latrine	
ELECTRICITY		
Types of Electricity Available	Power for Domestic Uses	
	Power for Agriculture Uses	
	Power for Commercial Uses	
TRANSPORT & CONNECTIVITY		
Types of Road (s) Available (SH-18 and KMP expressway are adjacent to the site)	Black Topped	
	Gravel Roads	
	Footpaths	
	All Weather Roads	
Railway	Narela Railway Station- 9 km in the E	
Airport	Indira Gandhi International Airport-35 km SE	
COMMUNICATION		
Means of Communication	Radio/Transistor	
	Television	
	Computer/Laptop	
	Telephone/Mobile	

BANKING & POST	
Types of Banking Services Available	Post Office
	Commercial/Cooperative Bank
	Agricultural Credit Society

Source: Study Research

SOCIO-ECONOMIC IMPACT OF THE PROJECT

Impact on Demographic Composition

The proposed project is intended to encourage and support the creation, expansion and modernization of small scale industries through the provision of factory accommodation, common service facilities and assistance and servicing thorough all stages of establishment and operations of industrial activity in the area in an environmental friendly manner. The project is therefore envisaged to increase the working population in the study area both during the construction and operation phases with possibility of in-migration of people. This will make some changes in the demographic composition of the population in the area. The occupation structure of the working population is also projected to shift further in favor of household industry and other industrial/business establishments when the project completed. The sex ratio may also get impacted.

Employment Opportunities

The proposed project will provide employment opportunities both during the construction and operational phases. The direct and indirect employment will provide during the operation of the project at both skilled and unskilled levels to the local people on priority basis and the people will stay at the peripheral areas.

Besides, the industrial units in the industrial state will offer employment opportunities and also generate business opportunities to cater to the demand of people working in these units in the industrial estate. The local people will therefore have both employment and business opportunities. The socio-economic standard of the local people will increase due to these enhanced employment and business opportunities. This will lead to better quality of life, improvement in the living conditionsand will also set a standard for future developments in the area. It is a positive impact of the project.

Impetus to Trade & Business in Construction Materials

The proposed project will give much impetus to trade and business on construction materials in the nearby market places to the project area. It is expected that trading and business will flourish on various construction materials namely coarse sand, fine sand, stone aggregate, cement, reinforcement steel, pipes, bricks, conduit pipes, PVC overhead tanks, glaze & floor tiles, hardware, stainless sinks etc. Besides, service providing businesses like office & stationery, printing & binding, transport servicing, fabrication & welding, etc. are also expected to increase.

Impact on Agriculture

The area under agriculture is expected to show a marginal decline as land that is being acquired for the project is agricultural land. However, this decline is not envisaged to reduce the agricultural income of the people in the area. Further, as the area being developed as an industrial hub it is envisaged that the increase in industry and business activities would increase income levels which would outweigh the decline in agricultural income of the area. The short term negative impact, if any, would be outweighed in the medium and long term.

Impact on Road Development

Movement of vehicles to and from the project site is expected during the construction period. This movement is expected to further increase when the model township becomes functional. Hence, there is scope for further strengthening the road development in the area with adequate parking space so as not to disturb the traffic and allow smooth movement in and around the project area.

Impact on Law & Order

As workers to be employed in the proposed project is expected to increase both during the construction and operation phases, law & order or administrative institution may be further upgraded or strengthen close to the project site.

Impact on Health

In the operational phase, there are no chances of any major diseases due to the construction work. However, to meet any emergency few safety measures are outlined below:

a) **Safe Working Environment**: The project proponent shall ensure health and safety of all the employees at work. All efforts will be made to provide and maintain a safe work environment and ensure that the machinery and equipment in use is safe for employees.

b) **Provision of First Aid**: In case of any accidents arising out of the proposed construction works, timely and prompt first aid treatment is, often, the most important tool. Suitable first aid arrangements shall be made at the site for rendering immediate first aid in case of any injury. The first-aiders will be well trained in handling patients working in the project.

c) **Regular Medical Examination:** For all workers, medical examination will be made on regular basis.

d) **Health Education:** Adequate health education & information related to the work will be provided to the workers so that their health & safety can be ensured.

e) **Tie-up with the nearest Hospital for Medical Assistance:** To meet the medical needs of the workers in case of accidents, tie-up with nearest hospitals will be made. Efforts will be made to reserve a few beds in the said hospitals for the workers to meet any emergency. This will ensure timely medical aid to the affected persons.

f) **Supply of Mask & Gloves:** The workers exposed to dust will be provided with dust masks to prevent them from getting affected by respiratory diseases. Gloves will be provided to workers working with hand tools to ensure safety of their hands.

g) **Special Telephone Number:** A special telephone number will be made available to the workers in case of emergency so that they can dial the same in case of any accident.

CORPORATE SOCIAL RESPONSIBILITY:

As per the section 135 of the Companies Act, 2013 Corporate Social Responsibility (CSR) is mandatory part of any development project.

In compliance to the CSR Policy as a responsible corporate citizen, HSIIDC approved the revised village & skill development scheme in line with the provisions of the Rehabilitation & Resettlement policy-2010 of the state of Haryana, for the villages whose land is acquired for development of Industrial Estates/Industrial Model Townships/Industrial Parks in 321st meeting of the Board of Director of HSIIDC.

1. 2% of the compensation amount (at the stage of announcement of initial award by Land Acquisition Collector) will be set apart for creation of community development/infrastructure works in the respective villages.
2. 1% of the compensation amount (at the stage of announcement of initial award by Land Acquisition Collector) for skill development initiatives for the dependends of oustees and other landless persons dependent on agriculture operations over the land acquired.

1. <u>Village Development –</u>

- Construction roads/paved streets in the villages.
- Construction of stadium in the village.
- Construction of retaining walls of existing ponds for animals.
- Construction of storm water drains around the village boundary.
- Providing financial assistance to building sanitation facilities in the villages around the project site.
- Providing Street lightening facility.
- Development of Community Centre equipped with library & internet connected computer facilities.

2. Skill Development & Training -

- Providing scholarship/financial assistance to underprivileged children and meritorious students for their higher, technical &management education.
- Providing training to the students and unemployed youths in technical institutions like ITIs etc. for up gradation of computer based technical skills.
- Providing training to the women for self help to be self dependent and to improve their skill & economic condition.
- Setting up Computer Literacy Centres.
- Providing financial aid for distributing sports goods and musical instruments to the local clubs located in the study area.
- Organizing sports events & tournaments and providing financial aid to the eligible candidates for coaching and proper training.
- Providing uniforms and books to the school children.

The budgetary allocation of the said amount & activities in the coming five year span is indexed below:

S. No.	Activities	Budgetary Allocation of the Fund (Rs. Lakhs)					
		Year-I	Year-II	Year-III	Year-IV	Year-V	Total
1.	Village Development	600	700	700	700	700	**3400**
2.	Skill Development & Training	100	400	400	400	400	**1700**
Total		**700**	**1100**	**1100**	**1100**	**1100**	**5100**

CONCLUSION

The socio-economic standard of people living in the area will improve due to employment opportunities created by the project. This will lead to better quality of life and will also set a standard for future development in the study area. Due to the project, the infrastructure of the area will improve including development of roads, parks, play grounds etc. This will give a boost in the quality of life of people of the area. However, there is still scope of improving health and educational facilities besides improving the skill sets of the people in the area. It is expected that same will improve with the project & associated business activities becoming operational and the CSR activities planned by HSIIDC in the area.

THE OVERALL IMPACT OF THE PROJECT IS EXPECTED TO BE POSITIVE FOR THE HABITANTS OF THE AREA AND THE PERSONS ASSOCIATED WITH THE PROJECT.

CHAPTER-4

ANTICIPATED ENVIRONMENTAL IMPACTS & MITIGATION MEASURES

4.0 INTRODUCTION

This chapter discusses identification and appraisal of various environmental impacts due to the Industrial Estates. Generally, the environmental impacts can be categorized as direct, indirect and cumulative. Direct impact occurs through direct interaction of an activity with an environmental, social or economic component. Indirect impact on the environment is those which are not a direct result of the project often produced away from the impact pathway. As a project in the same vicinity of other project than impacts occur when the incremental impact of the project is combined with the cumulative effect of other past, present and future projects.

The construction and functional phase of the project comprise various activities, each of which may have some impact on physical, ecological and socioeconomic environment. Various impacts during the construction and operation phase on the environmental parameters have been studied to estimate the impact on environment and minimizing the adverse impact and thereafter enhance the beneficial impacts on environment quality both during pre and post project.

Industrial Estate project will be constructed and developed gradually in the time span of 5-6 years. In development phase, basic infrastructure facilities like internal road, CETP system, storm water drainage, street lighting etc. will be developed.

Due to various activities associated with the Industrial Estate proper evaluation and assessment of the environmental impacts is essential. Various activities related to the project would be different, in terms of nature during the construction and functional phase.

The impact identification and prediction process aims to:

- Identify potential source or cause of impact throughout the life of project

- Characterize the potential impacts affecting the social, economic and environmental attributes
- Assess the potential of changing likelihood of impact through Environmental Management Plan (EMP)
- Prediction of the impacts due to the construction and functional activities encompass the developmental processes to be undertaken during construction and functional phases

In following sub sections the potential impacts and magnitude of the impacts from the project have been assessed and discussed in detail.

4.1 IMPACT MATRIX

Various activities from the Industrial Estate project are likely to have some impact on the environmental constituents during its construction as well as operational phase. The matrix method has been adopted for the identification and evaluation of the environmental impacts. The method involves identification of the interaction between project activities and environmental characteristics. The impact assessment matrix given in Table 4.1 reveals the impact associated with each activity of the project on various environmental parameters during construction and function phase respectively before any mitigation measures are implanted. To assess the severity of the impacts, they are categorized as follows:

Table 4.1 Impact Identification Matrix

Project Activity	Environmental Attributes							
	Land use	Soil and earth	Ground water quality	Surface water	Air	Noise	Ecology	Aesthetics
Construction Phase								
Site clearing	√	√		√	√	√	√	
Excavation and embankment	√	√			√	√	√	
Construction of water distribution networks	√	√		√	√	√	√	
Construction of storm water network	√	√	√		√	√		
Construction of wastewater treatment plant	√	√		√	√	√	√	√
Development of Haulage Road	√	√			√	√		
Quarrying	√	√			√	√		
Construction of laying of roads	√	√			√	√		
Construction of Industrial units	√	√			√	√		
Operational Phase								
Operation of DG sets					√	√		
Operation of Machine					√	√		
Vehicular movement		√			√	√		
Solid waste disposal	√	√						
Wastewater disposal				√			√	

Environmental Attributes	**Nature of Potential Impacts during Construction and Operation Phases**										
	Local	**Regional**	**Short Term**	**Long Term**	**Reversible**	**Irreversible**	**Adverse**	**Beneficial**	**No Impact**	**Significant**	**Insignificant**
Topography	√					√				√	
Drainage		√		√		√				√	
Soil	√		√		√						√
Water Resources		√		√	√		√			√	
Water Quality		√		√	√		√			√	
Land Use	√					√		√			
Air Quality	√			√		√				√	
Noise	√		√		√		√			√	
Flora	√			√	√			√			
Fauna	√			√	√			√			
Employment	√	√		√	√			√			
Aesthetic	√			√	√			√			

4.2 APPROACH TO THE IMPACT ANALYSIS

The approach to impact analysis includes identification of both positive and negative impacts which may be inclusive of following:

- Identification and summary of all anticipated environmental impacts
- Description of all probable adverse impacts, which cannot avoided

Identification and Assessment of Impacts

In order to assess the impact of Industrial Estate project, following scenarios are to be considered.

(i) No project
(ii) Project without EMP
(iii) Project with EMP

During the construction phase of the Industrial Estate projects environmental impact will be temporary and beneficial. The other during the operation phase would have long term effects and hence require mitigation plan for management of impacts.

4.3 IMPACT IDENTIFICATION

The areas of environmental concerns for which the impacts and their predictions are taken into consideration are mainly:

- Air Environment
- Water Environment
- Noise Environment
- Land Environment
- Biological Environment
- Social Environment
- Economic Environment

The impacts can be further categorized as positive impacts and negative impacts depending upon their nature, potential and magnitude.

4.3.1 Environmental Aspects of Development, Construction & Operations

- Generation, storage and disposal of construction wastes;
- Noise pollution due to plant, machinery, equipment and vehicle movement;

- Air pollution due to plant, machinery, equipment and vehicle movement;
- Generation and disposal of wastewater;
- Impact on ecology;
- Consumption of resources such as water, electricity, and diesel.
- Physical change in landscape due to earth work excavation and related activities
- Soil erosion caused due to loss of vegetation and other construction activities

4.3.2 Environmental Aspects of Building Planning and Use

Impacts identified during operation of the Industrial Estates and their use includes major concerns such as:

- Discharge of industrial effluent generation
- Disposal of domestic (sewage) effluent generation
- Disposal of solid wastes generated in the Industrial Estate from commercial and horticultural activities.
- Increase in noise levels due to transport.
- Consumption of water and impact on water resources
- Storm water during rains
- Impact on traffic on the road

4.4 POLLUTION SOURCES

Pollutants generated in the development of Industrial Estates during both the construction and functional phases are solid, liquid and gaseous in nature. Also the generation of pollution could be continuous, periodic or accidental. Sources of pollutants and their characteristics during the construction and functional phase are given below in Table 4.2.

Table 4.2: Pollutant Sources

SI. No.	Activity / Area	Pollutant	Sources	Frequency
CONSTRUCTION PHASE				
1.	Site preparation and construction activities	Air emission- SO_2, & NO_2.	Dust from construction activities and excavation. Particulates matter, NO_2 and CO from	Temporary during construction phase only. Bulk of the emissions is expected from

SI. No.	Activity / Area	Pollutant	Sources	Frequency
			vehicle exhaust	ground work and levelling.
		Earth/Solid waste	Solid waste from construction activity and excavation.	Periodic
		Hazardous waste generation such as used oil and paints.	From D.G. Sets and painting of the buildings.	Periodic and temporary
		Noise	Noise generated from construction equipment and machinery	Temporary lasting the construction phase
2.	Labour Camps	Sewage	Sewage generated from temporary labour camps on site.	Temporary-during the initial construction phase
		Solid Waste	Solid Waste generated from temporary labour camps on site.	Temporary- during the initial construction phase
OPERATIONAL PHASE				
1.	Vehicular movement	Air emissions and noise	Vehicle exhaust emissions	Continuous/ periodic
2.	Diesel generators	Air emissions	SO_2, NO_2, PM, CO from fuel burning	Occasional- during power failure
		Noise	Noise due to running of equipment,traffic	Occasional- during power failure
		Hazardous Waste	Used oil generation	Occasional- during oil changes
3.	Maintenance / House-Keeping	Wastewater	Floor washing, sewage	Continuous
		Solid waste	Commercial, Hospital and garden wastes	Continuous

SI. No.	Activity / Area	Pollutant	Sources	Frequency
4.	Vehicle Parking	Oil spills	Minor oil leaks, parking space	Continuous
5.	Storm water drains	Rainwater	Contamination discharge from site-mainly suspended solids	During rainy season

4.5 ASSESSMENT OF ENVIRONMENTAL IMPACTS DURING CONSTRUCTION AND OPERATION PHASE

4.5.1 Topography

Impact: The project site is flatted land. Contour level varies from the 220.16msl- 216.1msl.

Mitigation Measure: Drainage system and sewer system will lay down to gravity flow. So, that it will not disturb the topography of the area.

Since there is no significant impact on topography from the project, no detailed mitigation measures are proposed. It is however proposed that apart from the proposed plantation greens, turfing with local species will be carried out extensively. Horticulture work will be carried out on the burms of the road and centre merge of the road.

4.5.2 Land Use Pattern

Impact: Project site is as per the master plan of Kharkhoda designated landuse. As well as baseline data shows that the soil is not good for crop production.

Mitigation Measures: Since there is no significant impact on land-use from the project, no detailed mitigation measures are proposed. Land acquisition is already taken place. R&R is already given to the affected person as per the HSIIDC policy.

4.5.3 Land Environment

Impact: The site clearing and preparation activities will involve removal of only scanty vegetation, mainly bushes, existing in the vicinity of the site. The project site is primarily dominated by undergrowth and unwanted bushes. Soil will be excavated at project site for foundations of industrial & other development.

During the operation phase of the project, the soil may get polluted/ contaminated from littering of various kinds of wastes generated within the site such as food items, paper, wood pieces, paints, pesticides, oil & grease & other industrial waste etc.

Mitigation Measures: The impact on soil during construction phase and operation phase will be marginal and reversible in nature.

- Land clearing activities only confined to necessary areas.
- The soil excavated during construction will be first temporarily stored in an area earmarked and then used to fill up low lying areas in and around the project site and rest of the soil shall be transported by road to fill up low lying areas elsewhere.
- The top soil will be stripped from constructional areas and stockpiled for later reuse in landscaping.
- The number, frequency and area of movement of heavy machinery will also be restricted.
- Proper drainage system shall be provided to deal with the storm water in case of rain.
- To ensure against any chances of soil pollution, it is imperative to establish a well-planned solid waste collection system covering all areas of the project site.
- An identified area shall be designated for storage and segregation of the wastes which will be treated/ disposed as per their characteristics.

4.5.4 Water Environment

4.5.4.1 Surface Water Quality

Impact: During the construction phase, surface water quality is likely to be affected due to soil erosion during first rain and generation of wastewater mainly from construction labor camp. However, this impact will be temporary in the nature and observed in first rain only and as soon as rain is over excavated soil at site will stabilize.

The primary concerns relating to surface water quality associated with construction activities are given below:

- Runoff related to unpaved and excavated areas during the rain shower
- Sediments transported to runoff from the construction site
- Run off related to area where lubricant, fuel and other materials are stored, used and disposed off.

Surface water quality may be affected with the discharge of the runoff from the project site. The impact to the surface water bodies could arise from the increased soil erosion from excavated site only causing increase in the suspended particles and turbidity of runoff water from the site.

Mitigation Measures: The impact on surface water quality can be minimized by adopting following measures;

- Excavation during dry season and management of excavated soils,
- Clearing all debris from site as soon as construction is over.
- By providing hutment and toilet facilities for construction labour,
- Water will be treated into CETP before discharge.
- The industrial effluents generated from the industry will be firstly treated in ETP of Industry and it will be collected through the line network provided in the project site for treatment in the Common Effluent Treatment Plant (CETP), and the treated wastewater reused within the site there after. Therefore, impact on the surface water hydrology will be insignificant during the post construction phase.

4.5.4.2 Ground Water Quality

- **Impact**: During construction phase wastewater would be generated from concreting, plastering, cleaning and polishing, internal decoration and similar activities. Direct discharge of wastewater into storm drains would pollute the water quality of the receiving water body. Ground water quality would be polluted by debris, soil excavation and waste generation. During construction and operation phase no ground water will be excavated so, impact on the ground water hydrology will be insignificant.

Mitigation Measures:

- No hazardous chemical and material will be used in the development and construction phase of industrial estate.
- Debris and wastes generated during this phase will be collected and disposed suitably.
- The construction works should be properly programmed to minimize soil excavation in rainy season to prevent soil erosion from exposed soil surfaces.

- Exposed stockpiles should be covered with tarpaulin or impervious sheet before a rainstorm occur.
- It is recommended to pave haul roads with concrete and protect temporary access roads using crushed stone or gravel.

4.5.4.3 Surface Water Hydrology

Impact: The project site is outside any flood plain. Runoff during rains takes way to natural drain and in storm water drains laid in the area. During construction phase, there is no impact anticipated on the drainage pattern of the project area.

During operation phase, total water 92.6659 MLD will be required. The source of water will be Western Yamuna Canal. Waste water generated from the IMT Kharkhoda after treatment and recycling will be reused within the project site.

Mitigation Measures:

- Curing water will be sprayed on concrete structures and free flow of water not allowed.
- After liberal curing on the first day, all concrete structures will be painted with curing chemical to save water to stop daily water curing hence save water.
- Concrete structures will be covered with thick cloth/gunny bags and then water sprayed on them to avoid water rebound and ensure sustained and complete curing.
- Ponds will be made using cement and sand mortar to avoid water flowing away from the flat surface while curing.
- Water pounding will be done on all sunken slabs. This will also highlight the importance of having an impervious formwork.
- To minimize the water demand water will be recycle and reused after treatment in CETP.
- Proper drainage system shall be provided to deal with the storm water in case of rain.

4.5.5 Air Environment

Emissions Source: The impact on ambient air quality due to the project activities during the construction phase of the project is temporary. Particulate matter would be the predominant pollutant generated from construction activities. The gaseous emissions such as SO_2, NO_2, and CO would be generated from the construction equipment's and vehicles.

The potential sources of air emissions during the construction and operation phase of the project will be as follows:

- Dust from earth works (during site clearance and preparation);
- Emissions from the operation of construction equipment and machines;
- Emissions from power generator at site;
- Fugitive emissions from vehicles running to site;
- Fugitive emissions during the unloading of material at the site;
- Fugitive emissions during mixing of cement with other building materials during development and construction activities;
- Air emissions other than dust arise from combustion of hydrocarbons. The pollutants of concerns are NO_2, SO_2, CO, particulate etc.
- Air emission by the various stacks of industries.

Potential Impacts: Ambient air quality effects are normally assessed in relation to their potential to cause;

- Health deterioration and nuisance in local communities
- Health deterioration amongst onsite workers
- Health deterioration amongst industrial workers

Assessment of The Impacts From Dust Emissions: During the excavation of channels, foundations, unloading of construction material, cement bags and mixing of cement with other building materials such as brick and silica dust, wood dust, fugitive dust emissions may be emitted at construction site.

Assessment of the Impact from Diesel Generators: Emissions from the D.G. Set during construction phase may cause some localized impact on ambient air quality for short duration, as it will be operated during power failure only.

During the operation phase, cars, scooter/motorcycle will be owned by the population of such project. Ground Level Concentration of pollutants (as added by the project) will depend upon the following:

- Emission of pollutants from additional traffic on the roads due to the project.
- Meteorological conditions.

- Emission sources from D.G. Sets.

PM, NO_2, SO_2 and CO will be the main pollutants of primary concern released from traffic movement and DG sets. Assuming that under cross wind condition perpendicular to the road, the dispersion of vehicular emissions would be confined within limited distance from the road and concentration will decrease with the increase in distance from road as worked out by the line source model. It was anticipated that the contribution of vehicular emissions from the exhaust in ambient air quality will be marginal as Pollution Under Control (PUC) certified vehicles and branded make operated vehicle with low sulphur diesel will be used. Ground Level Concentration (GLC) of pollutants is found to be well within the stipulated National Ambient Air Quality Standards due to traffic movement and vehicles used inside the premises.

DG sets will be main source of Air Pollution in the project CPCB/ MoEF&CC approved USEPA dispersion model -ISCST3 was used for prediction of impacts caused by DG sets. Stack & emission data was used as per design value provided by standard make and stipulated standards. Other primary data used as input for model were hourly meteorological data of Wind speed & direction, temperature, cloud amount and mixing height. Mixing height used in the model was taken from secondary data source "Atlas of Hourly Mixing Height Assimilative Capacity of Atmosphere in India published in 2008by IMD, Delhi". Hourly meteorological monitored at site during study period data was compared with long term data available from the nearest Meteorological station or any other authorized source/Govt. agencies.

In this project, 2 No's DG sets of 630 kVA for CETP and 1 No DG sets of 630 kVA for water works has been proposed for back up of electricity supply during power failure. This will cause emission of PM, SO_2, NO_2 and CO in the Ambient Air Quality. In the project, D.G. sets will be used only during power failure and low sulphur diesel will be used as fuel to minimize SO_2 emission. Therefore, incremental load in the ambient air environment will be found to be very low as given in the report. An adequate stack height of D.G. sets will be provided as per the stipulated guidelines of Central Pollution Control Board (CPCB)/ National Building Code Manual to facilitate proper dispersion of pollutants and to minimize the impact on Ambient Air Quality under the influence of local meteorology.

Meteorology –Hourly Meteorological data of wind speed & direction, temperature, cloud amount and rainfall were monitored at site for 3months for the dispersion model. Wind rose (**Figure 4.1**) was prepared in sixteen directions as per standards. It was observed that westerly and north-northwesterly was prevalent wind during the study period and Average wind speed was 2.18m/s.

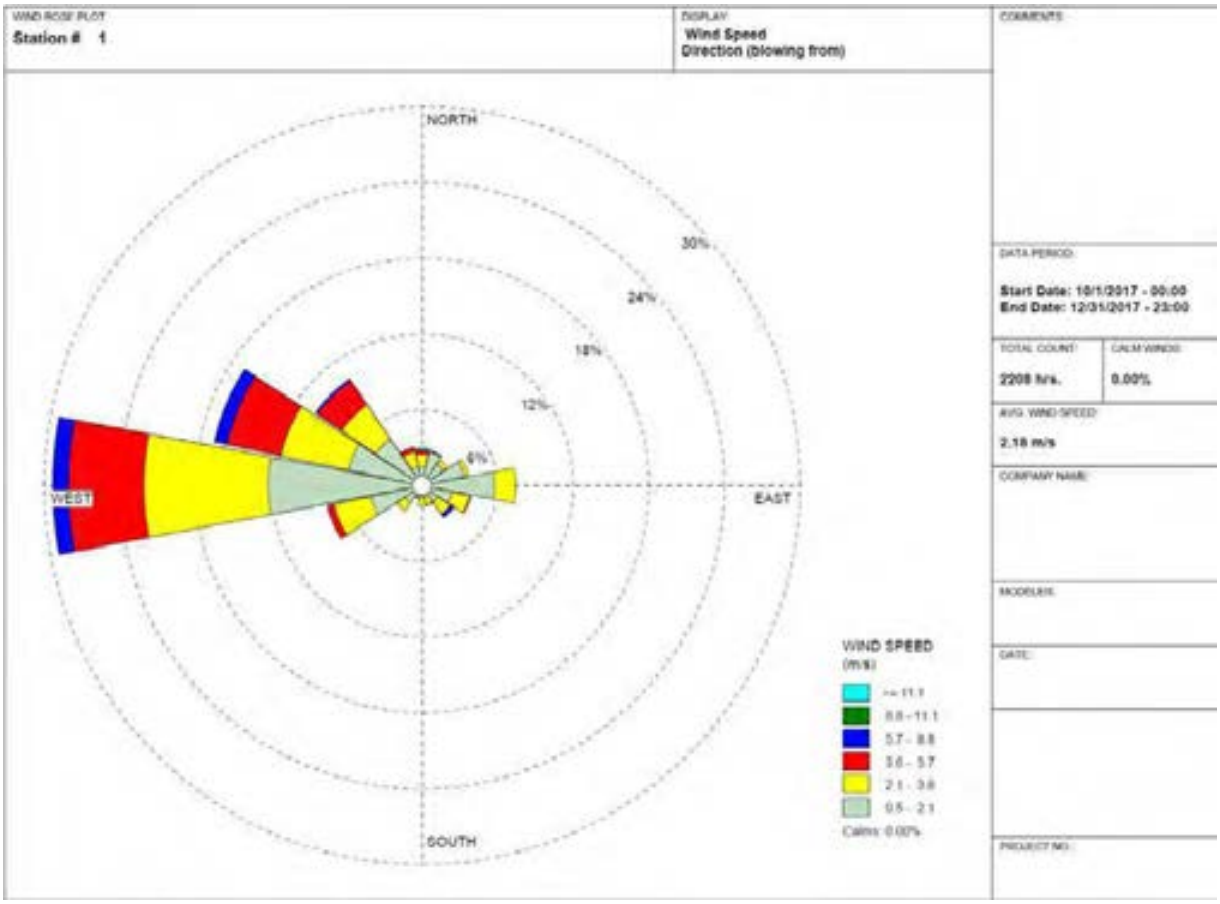


Figure 4.1 Wind Rose- (Post Monsoon Season for 1st October 2017 to 31st December2017)

Model Details and Frame Work of Computation

The predictions for air quality during operation phase were carried using CPCB/MoEF&CC approved "USEPA, Industrial Source Complex (Version - ISCST3)" Dispersion model developed by the US Environmental Protection Agency (USEPA) for prediction of pollutants dispersion from single or multiple point sources using emission and hourly meteorological data of the study period. Assumption used in the model was as follows:

The plume rise is limited to that of the mixing layer as published by IMD in the Catalogue of Atlas of Mixing Heights in India for the site

- Stack down-wash is not considered
- Flat terrain is used for computations;
- It is assumed that the pollutants do not undergo any physico-chemical transformation
- Chemical and scavenging process occurred in the atmosphere in the pollutants released at the stack exit is not considered
- Prediction is based on single/multiple point sources, pollution released at stack exit and dispersed on the ground under influence of local meteorological conditions during the season

ISCST3 dispersion model was used to predict GLC caused by a single point source (3 stack) at each receptor of 100 m x 100 m of grid network covering total area of 2000 m x 2000m around the proposed source with stack & emission values and 1-hourly meteorological data. It was observed that SO_2, NO_2, Co and PM were significant pollutants released from the fuel of the D.G. sets. Emission of PM, CO and SO_2 were found insignificant with low values compared to NO_2. In this project, $NO_2$was the worst affected pollutant released into the atmosphere (Table 4.3). 24-h GLC was predicted for SO_2, NO_2, CO and PM but isopleth of NO_2 is only presented in the report as GLC of other pollutants were lower under similar meteorological conditions.

Table 4.3: Stack and Emission Details

Stack No.	DG set Capacity (kVA)	Stack & Flue details				Pollutants Emission			
		Height (m)	velocity (m/s)	Temp (k)	Diameter (m)	NO_2 (g/s)	SO_2 (g/s)	PM (g/s)	CO (g/s)
1	630	30	25	773	0.332	0.3825	0.047	0.0125	0.145
2	630	30	25	773	0.332	0.3825	0.047	0.0125	0.145
3	630	30	25	773	0.332	0.3825	0.047	0.0125	0.145
Total Emission (g/s)						1.1475	0.141	0.0375	0.435

Note:-DG set will be operated during power failure for maximum 6-Hours**.**

Discussion of Results

ISCST3 - Dispersion model was used to predict GLC of all pollutants; SO_2, NO_2, CO and PM with stack & emission and hourly meteorological data. 24-hours average maximum predicted GLC ofNO_2wasto be **6.5*μg/m*^{3}**occurred at ***(700m, 500m)i.e.East*** from the DG sets fitted with

30m chimney and GLC of other pollutants SO_2, PM and CO were 0.8µg/m^3, 0.22and 0.25µg/m^3 respectively occurred at the same distance. It was found that GLC of $NO_2$was less than the permissible limit of 80$\mu g/m^3$ (as per CPCB guidelines) under worst meteorological condition (Table 4.4) with meteorological data monitored on 28thDecember 2017.

Table 4.4: Meteorological data for the 24-hour average maximum predicted Concentration under worst meteorological condition

Year	Month	Day	HOURS	Wind Direction (Sector) (Degree)	Wind Speed (m/s)	Temperature (K)
2017	12	28	1	270	1.5	282
2017	12	28	2	270	1.5	281
2017	12	28	3	270	1.5	281
2017	12	28	4	270	1.5	281
2017	12	28	5	270	1.5	283
2017	12	28	6	270	1.5	283
2017	12	28	7	270	1.5	285
2017	12	28	8	270	1.5	288
2017	12	28	9	270	1.5	292
2017	12	28	10	270	1.5	294
2017	12	28	11	270	1.5	294
2017	12	28	12	270	2.6	296
2017	12	28	13	270	2.1	297
2017	12	28	14	270	3.1	298
2017	12	28	15	270	3.1	298
2017	12	28	16	270	3.1	298
2017	12	28	17	270	3.1	298
2017	12	28	18	270	2.6	297
2017	12	28	19	270	2.1	296
2017	12	28	20	270	1	295
2017	12	28	21	270	1	293
2017	12	28	22	270	1	292
2017	12	28	23	270	1	286
2017	12	28	24	270	1	284

Spatial distribution of NO_2 is shown in isoplethFigure 4.2. It was observed that GLC closed to the proposed source will be not significant. 24-h maximum value was 6.5 µg/m^3 occurred at the distance 700 m,East of the project site.

Conclusion

24-h GLC of NO_2 was 6.5µg/m^3due to DG sets in the project. High to moderate wind speed and minimum stack height of 30 m facilitates dispersion at the distance of 700 m, East under the influence of local meteorology. Predicted GLC of all pollutants are given in Table 4.5 as below:

Table 4.5: Predicted Incremental GLC of All Pollutants

S.No.	Pollutants	Emission of Pollutants	Incremental GLC	Direction of occurrence
1	NO_2	1.1475	6.5	East
2	SO_2	0.141	0.8	East
3	PM	0.0375	0.22	East
3	CO	0.435	2.5	East

Very a low value (< 0.5 µg/m3) was predicted close (50 m) to the source. There was no significant impact on AAQ envisaged.

Max Conc. of $NO_X$is 6.5 µg/m3 at 700 m, East from the project site

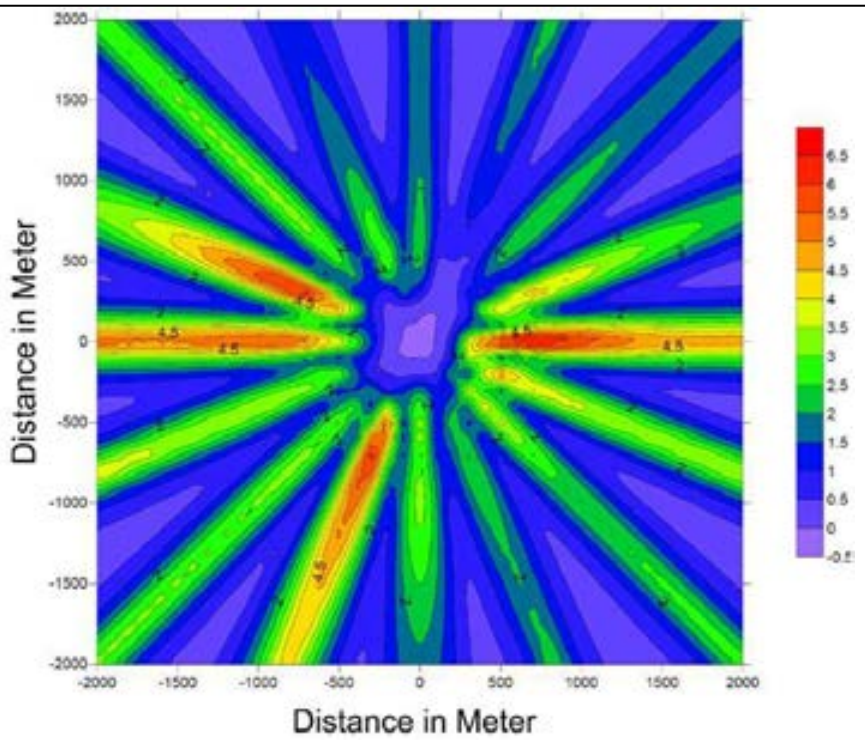


Figure 4.2: Spatial distribution of 24-hours average NO_2 concentrations (6.5µg/m^3). Moderate to high wind speed and stack height of 30 m facilitates dispersion at long distance of 700 m, East under the influence of local meteorology. Very low values < 0.5 µg/m3 was predicted close (50 m) to the source.

Mitigation Measures: To minimize impacts of air pollutant following measures will be adopted:

- During construction, curtaining floors from all sides will be done to prevent cement dust from becoming airborne. Construction dust material should be sprayed with water prior to any loading, unloading or transfer operation to maintain the dusty material wet to avoid dispersion. Stockpiles of aggregates shall be covered and water applied. It may be noted that all the emissions will be in the form of coarse particulate matter and settle down ultimately in closed vicinity of construction site. Therefore, no significant impact is anticipated due to dust emission during development and construction phase.
- Vehicle involved in transportation of loose and fine materials like sand and fine aggregates shall be covered to reduce spills on roads.
- The height from which excavated materials are dropped shall be controlled to a minimum practical height to limit fugitive dust generation from unloading.
- Earth moving equipment, typically a bulldozer with a grader blade and ripper shall be used for excavation work.
- It may be noted that the D.G. set power will be used to operate construction equipment only if required.
- For treatment of DG flue gas emissions in a scrubber will be considered. It is further proposed to cover scaffolding, hosing down road surfaces and cleaning of vehicles especially during the dry season.
- Avenue plantation on the internal roads and within the site will also be developed.
- All industry shall follow the MoEF&CC guidelines and CPCB norms for the commitment of pollution reduction.
- All DG sets should have proper insulated and chimney height as per MoEF&CC norms.
- All industrial shall monitor indoor air quality and ambient air quality periodically by MoEF&CC guidelines.
- Proper ventilation system installed at the work place to reduce the exposure pollutant.

- Industry must going to follow the permissible levels of certain chemical substance in work environment of the Factories Act, 1948.
- Internal training programme to be design for worker to reduce maximum exposure.

4.5.6 Noise Environment

During the construction phase of project, noise will be generated from the various sources. Some major sources of noise generation at project site are listed here under:

- Generation of noise during movement of vehicles carrying materials, loading and unloading activities.
- Generation of noise from excavation machines, concrete mixer and other construction machines,
- Generation of noise during the operation of D.G. Set
- Generation of noise during concreting, hammering, etc.

All the above-mentioned sources of development and construction activities at Industrial Estate project would be intermittent and experienced occasionally. It may also be noted that the most of the construction activities would be carried out only during the daytime. The expected noise levels from various activities are given hereunder:

From vehicles bringing materials to the site	70 dB (A)
D.G. Set	85 dB (A)
Excavation	80 dB (A)
Concrete Mixtures	80 dB (A)
Hammering	85 dB (A)

Mitigation Measure: To minimize impacts of noise generation following measures will be adopted:

- Provision of Personal Protective equipment (PPE) such as muffles/plugs to the workers.
- Acoustic enclosures to be provided for compressors for drills and rock cutter.
- All plants and construction equipment shall be fitted with noise control measures.

- Servicing of all construction vehicles and machinery to be done regularly and during routine servicing operation, the effectiveness of exhaust silencers will be checked and if found defective to be replaced.
- Vehicle for bringing construction material at site shall conform to the noise emission standards and to be operated during non-peak hours.
- Ambient noise level monitoring shall be conducted at suitable locations at periodic intervals during construction phase to conform to the stipulated standards during both day and night time. Data shall be reviewed and analyzed by the project manager for adhering to any strict measures.

During operation phase, noise level will be controlled by following measures:

- DG set for backup power to be provided with adequate acoustic enclosure and to be fitted with muffler to reduce the noise in adherence with the regulatory equipment.
- To have the provisions of noise barriers in form of dense tree belt around the periphery and particularly facing residential area. Shrubs can reduce noise by about five to ten decibels-or about 50 percent as perceived by the human ear, (According to the USDA & National Agro Forestry Center). Some Examples include Neem, Mango, Tamarind, Gulmohar, Peepal, Ashoka
- The DG sets should also be provided with proper exhaust muffler with insertion loss of minimum 25 dB (A).

Specific Mitigation Measures:

- **Asphalt facilities** - exhaust fan is directed away from sensitive receivers
- **Truck speeds** should be kept as low as possible
- Standard **acoustic backup alarms** should be replaced with strobe lights at night
- Squeaks and squeals should be minimized by regular maintenance and **lubrication** of equipment

4.5.7 Biological Environment

Impact: There is no loss of forest land due to the construction of the Industrial Estate. No tree felling is involved, as the site is devoid of vegetation.

Birds and other domesticated biodiversity observed near the project site are common and already adapted to thrive in human - colonized habitats. The project will not have any major negative ecological impact. There is no forest near the project site and therefore there will be no effect on the ecology of the area. Project site was an agricultural land before land acquired by HSIIDC. Compensation has already given to farmers for their land acquisition.

Mitigation Measures: The development of greenbelt in such a way that should attenuate the air and noise pollutants, enhancing the aesthetics and visual quality of entire area and also provide habitation to local fauna to preserve the environmental quality. The extensive landscape would include tree planted along the periphery of the premises in line as well as in cluster form. Greenbelt should be developed in maximum possible area. 100 m wide green belt will be provided on side of the KMP Expressway. Horticulture work will be carried out on the burms of the road and centre merge of the road. Based on the regional background, soil quality, rainfall, temperature greenbelt has to be developed. Greenbelt with varieties of species is preferred to maintain species diversity, rational utilization of nutrients and for maintain health of the trees. The selected plant species should be fast growing, evergreen and thick canopy as well as resistant to pollutant discharged. The extensive green areas in the project site improve the aesthetics of the area which will also help in reduction of air pollution, noise pollution and provide suitable habitat for local birds and animal species.

4.5.8 Socio-Economic

Impact of the project on social and economic characteristics

Impact on Population Composition

The execution of Industrial Estate IMT Kharkhoda project will increase the population of the study area. That will marginally change the population composition of the study area.

Acceleration in Urbanization Programme

The project site is located in village Industrial Estate IMT Kharkhoda, Haryana. This indicates that urbanization of the area where has already started. It is expected that the project will accelerate the on-going urbanization of the area.

The urbanization of the area is a positive impact of the project. However, this has to be undertaken more cautiously as it may cause negative impact on the socio-economic aspect of people living in the area due to stress and strain on civic amenities. It is therefore suggested that for smooth development of the area long term planning be adopted and there should be adequate budgetary provision for the purpose.

Impact on Existing Land Use

As per Master Plan of Kharkhoda, the project site is located in the land earmarked for Industrial purposes. Accordingly, no change in the land use pattern is envisaged. It is anticipated that the construction activities of the project will not have any adverse effect on the land use pattern of the study area.

Impact on Employment Opportunities

According to the Pre-Feasibility study of the Industrial Estates Project of HSIIDC about 1,00,000 – 1,50,000 persons will get direct and indirect employment as staff once the project is operational. It is expected that most of the employment opportunities will be made available to the local people. Besides, there will be large scale hiring of un-skilled and semi-skilled labour during the construction period. Creation of employment opportunities is a positive impact of the project on socio-economic aspects of people living in the neighborhoods.

Impetus to Infrastructure Development

The Industrial Estates Project will pave the way for various infrastructure developments that includes roads, parks, play grounds, bus shelters etc. This is a positive impact, which will create further employment opportunities for the local people.

Impact on Health Facilities

There are no Institutional health facility in the villages there of project site. For any medical assistance villagers are required to visit the nearby PHC or sub-center or rush to District Hospital located at Sonepat town. The medical facility available in the remaining villages is Allopathic dispensary, Homeopathic dispensary, Primary Health Center, and Primary Health Sub Centres.There is a dire need for augmentation of cheap and efficient health services in the rural areas of the study area. The industrial project will increase the population of the area as

also the need for institutional health facility. It is therefore suggested that a health centre may be set up in the neighbourhood of the Project.

Awareness of the Project

The sample survey has revealed that 80 percent of the households living in the study area are aware of the project at Kharkhoda. The remaining 20 percent could say nothing about the project as no construction activity has yet started.

People's Perception about the Project

About 80 percent of the people interviewed during the sample survey welcomed the project, while the remaining 20 percent refused to make any comment on it. Those who supported the upcoming project believed that it will quicken the process of urbanization of the area, generate employment opportunities to the sons of the soil, ensure infrastructure development etc.

Corporate Social Responsibility

Corporate social responsibility (CSR) refers to responsibility of a company to ensure positive impact on environment, consumers, employees, communities, stakeholders and all other members of the public sphere. It would be appropriate if the promoter of the project undertake few social responsibilities as per the need of the people in the study area. These could include education, skill building for livelihood of people, health, cultural and social welfare etc., particularly targeting the people at disadvantaged sections of society.

Mitigation Measures: Land acquisition is completed as per HSIIDC resettlement and rehabilitation policy. Compensation has already provided to the affected person. The execution of the project will not disturb the people living in the area as there will be no blasting and large scale digging. The project will generate employment opportunities for both skilled and unskilled workers in the vicinity, which will produce multiple effects on the life and economy of the local people. Thus from socio-economic point of view the project is beneficial to the people.

The impact associated with respect to the socioeconomic environment will be beneficial. In respect of land acquired in terms of land acquisition policy notified by Industries and Commerce Department vide No. 49/48/2006-41BL dated 4th may 2006 a sum of Rs. 42,000 per acre annual will be paid for a period of 33 years by private developers and this annuity

will be increased by Rs. 1500 every year. Rehabilitation and Resettlement plan is enclosed as **Annexure III.**

4.5.9 Construction Camp

Impact: During the development and construction phase, most of the laborers will be from local areas. As Industrial Estate will be developed gradually in the time span of about 5-6 years therefore laborer camps will be constructed to accommodate the laborers at the project site. This may lead to sanitation problems in the absence of adequate facilities.

Mitigation measures: Suitable measures will be taken at the construction camps to mitigate anticipated impacts due to temporary accommodation of laborers such as provision of clean drinking water, adequate toilet facilities, water and solid waste disposal system.
Other safety precautions to be maintained at work site including provision of PPEs, guarding of dangerous machine parts, maintenance of equipment as hoists and lifts etc., and adequate provision of different types of fire extinguishers will be made. All applicable rules and regulations pertaining to workplace health and welfare of workers will be adhered to.

4.5.10 Solid Waste Management

Impacts

During construction phase excavated earth will be used for backfilling and levelling of project site. The topsoil will be preserved separately and reused for landscaping. The construction wastes are largely mortar, scraps, aggregates and other construction material rejects. While no health hazard is expected from such wastes, unplanned disposal can cause safety concerns.

During operation phase, biodegradable solid wastes such as waste vegetables, foods and non-biodegradable solid wastes viz. metals, papers, cartons, thermocol, plastics, glass etc. are likely to be generated from the IE. Such wastes may include hazardous wastes also, and unless treated or disposed adequately can cause health and environmental hazards. Especially with a high groundwater table, it is extremely important to avoid any soil contamination that may ultimately leach into the groundwater reserves of the area.

The biomedical wastes that will be generated from the project pose various health hazards unless rendered harmless prior to disposal. Most of these wastes will be infectious or

cytotoxic. However, an integrated waste management plan in accordance to all applicable regulations and guidelines is proposed to ensure against any such incidence.

Mitigation Measures:

To ensure against any nuisance caused by improper disposal of wastes, it is proposed to identify waste collection areas within the site that will be regularly cleared. Recyclable wastes will be sold off to scrap dealers and recyclers, while inert wastes will be made available for filling and leveling of low lying areas. Hazardous wastes will be disposed off as per the provisions of the Hazardous Wastes (Management, Handling and Trans-boundary Movement) Rules, 2008 and as amended.

The municipal solid wastes generated will be segregated into biodegradable and non-biodegradable components and collected in separate bins. The biodegradable wastes will be vermi-composted. Dewatered/ dried sludge from STP will be used as manure in horticulture. Waste oil and batteries will be disposed through sale to authorised recyclers and buy back arrangements respectively.Inert wastes will be transported to the waste dump site. CFLs shall be stored in the premises until 'Lamp Recycling Units' are set up that will receive and recycle the bulbs in an environmentally sound manner. Storage shall be in a cemented and covered area.

All hazardous wastes will be stored and disposed as per the Hazardous Wastes (Management, Handling and Trans-boundary Movement) Rules, 2008 and Amendments 2009. All movements of the hazardous waste shall be in accordance to the Manifest system in the said notification. The wastes shall be disposed at the TSDF.

All bio-medical wastes shall be stored in colour coded containers and rendered non-hazardous by the prescribed processes of disinfection, incineration, chemical treatment and landfill disposal, as applicable. Radioactive wastes shall be disposed as per the AERB/BARC guidelines.

Waste handling and management will be through an authorized agency. Biomedical wastes shall be handled through a CPCB approved bio-medical waste handling agency only. Care will be taken such that the collection vehicles are well maintained and equipped with air and noise pollution control mechanism. During transportation of waste, it will be covered to avoid littering.

4.5.11 Transport Linkage and Traffic

Impact: During development and construction phase, construction labour and construction materials bringing vehicles will approach the project site. The Industrial estate is well connected to neighborhood, where public transport facility, like, buses and minibuses are available in the area as transport linkage. During construction and operation phase, some impact is anticipated on the transport linkage of the area.

Mitigation Measures: Adequate parking will be provided during construction phase to ensure that all heavy vehicles visiting the sites are provided parking space within the site. Movement of the vehicle will also be scheduled such that the peak hours are avoided.

- In operation phase entry and exit will be from separate gates to minimize the disturbance to the approach road.
- Adequate parking is proposed to ensure there is no parking along the road.
- Traffic rotary is designed for diverting the traffic of the area.
- A well planned road network is proposed within the industrial estate premises. 60m wide road will be provided.

4.5.12 Energy Resources

Impact: Fossil fuels such as diesel fuel, gasoline and oil will be used during the construction and operation phase of the project. Electricity will be used during construction to provide power to construction equipment and during operation for lighting of building and running utilities equipment. During the operation phase of the project, for power supply will be provided by state electricity board. The connected load will be approx. 500 MW.

Mitigation Measures: To promote energy conservation, it is proposed to provide the buildings with low energy consuming fixtures maximize availability of natural light.The proponents will make arrangements for meeting any electricity shortage for the project. Therefore, energy resources of the region will not be affected significantly.

- To replace all the incandescent lamps and 40W tube lights with conventional choke with CFL & T5-28W tube lights respectively.
- To replace all the old tube light street light fixtures with energy efficient fixtures. Expenditure for replacement of CFL based light with T5-28W tube lights & old tube

light street light fixtures with energy efficient fixtures will be recovered with in a period of 5 years through savings.

Another notification of Govt. of Haryana regarding use of solar water heating system has come on 29th July, 2005 vides letter no. 22/52/05-5P.

The use of solar water heating systems will be mandatory in the following categories of building namely:

- Industries where hot water is required for processing
- Hospitals and Nursing homes including Govt. hospitals
- Hotels, Motels and Banquet halls
- Jai Barracks, Canteens
- Housing complexes set up by Group Housing Societies/Housing Boards
- All residential buildings built on a plot of size 500 square yards and above falling within the limits of municipal committees/corporations and HUDA sectors
- All Government buildings, residential schools, educational colleges, hostels, technical/vocational education institutes.

As far wind energy is concerned, it may be explored at later stages, but as now there is no provision of wind energy.

Environmental aspects of the project are not just limited to environmental impact of sources of pollution but also relate to energy conservation, water conservation and other issues, which are mentioned in Table 4.7.

Table 4.7: Mitigation Measure

S.No.	Area	Mitigation Measures
I.	Energy conservation	• Solar water heater, Day lighting, Energy efficient fixtures, CFL& T5-28W tube light instead of incandescent lamp. • Public area lighting • Exterior lighting
II.	Water conservation	• Reuse of recycled water • Gardening water sources
III.	Internal Roads and Accesses	• 60m wide road accesses, entry and exit at separate gate, traffic rotary
IV.	Material Use	• Construction materials selection • Paint selection

		• Use of recycled materials • Use of timber
V.	Aesthetics during functional Use	• Clothes drying facilities • Visitors parking • Playground for children • Service roads for walking • Flower bed water disposal • Floor washing arrangements • Air conditioning arrangements • Standby power supply • Provision for garden • Maintenance staff
VI.	Facilities for servants	• Servant quarters • Rest rooms with toilets for security persons.

4.6 IMPACT SUMMARY

The assessment has been carried out considering the situation and scenario of the project site. Any type of development activity has both beneficial and adverse impact on the environment in which it operates.

The impact are identified and evaluated to reduce their negative impacts and maximize the positive effect on the surrounding environment. The project will generate an optimum employment generation for the local population. Overall the project will have moderate impact on the environment with effective implementation of Environment Management Plan.

CHAPTER 5

ANALYSIS OF ALTERNATIVES

5.0 INTRODUCTION

This chapter discuss the various alternatives considered in developing the project. It also compares the technical, financial, environmental feasibility of the project where applicable. This chapter also discuss the criteria on the basis of which a site is selected.

An industrial estate was developed by Haryana State to attract the industrial entrepreneur in the late seventies, Thereafter, there is consistent demand of industrial plots and now Haryana Industrial and Infrastructure Development Corporation (HSIIDC) has acquired the proposed project land for developing the industrial area with the modern and environment friendly facilities.

Site selection is an important criterion for development of any project, as this is an Industrial Estate project so identification of suitable site is based on various considerations.

- Physical infrastructure
- Environment consideration (land use, air pollution, water pollution sensitivities)
- Socio economic consideration

As the site is already earmarked for the purpose of Industrial Estate development so, no alternative sites have been studied.

5.1. NATURAL HAZARD PRONE AREAS

The project will be situated in high earthquake risk area as comes under Zone IV. Special attention is thus given to the structural design of foundation, elements of masonry, timber, plain concrete, reinforced concrete, pre-stressed concrete, and structural steel. All applicable guidelines will also be followed in this regard to ensure safety of the building and its residents.

5.2. COMMUNITY ISSUES

Apart from the site occupants, all efforts will be made to ensure that the exiting neighborhood is not adversely affected by the project.

While, the site will not act as a thorough fare for vehicles, there shall be no restriction to movement of on-foot visitors and cyclists.

5.3. ENERGY CONSERVATION

To achieve conservation of energy, appropriate design of a building is of paramount importance. Accordingly, it is proposed to incorporate the guidelines of Energy Conservation Building Code, 2005 for the structures of the Industrial Estate project.

The concept of passive solar design emphasizes architectural design approaches that minimize building energy consumption by integrating conventional energy-efficient devices, such as mechanical and electrical pumps, fans, lighting fixtures, and other equipment, with passive design elements, such as building sitting, an efficient envelope, appropriate amounts of fenestration, increased day lighting design, and thermal mass. The basic idea of passive solar design is to allow daylight, heat and airflow into a building only when beneficial.

The project layout has been finalized after careful sitting consideration of various Industrial Estate components to optimize availability of natural sunlight. Advanced solar passive techniques are employed to achieve energy efficiency.

- Thermal storage wall is placed between the glazing and habitable space to prevent solar radiation from directly entering the living space
- Passive cooling systems i.e. cooling directly from evaporation, convection radiation without using any intermediate electrical devices
- Provisions for use of desert cooler (Indirect evaporative cooling which comprises water, evaporative pads, a fan and a pump)

Further, Energy efficient lighting will be achieved through:

- Use of solar photovoltaic systems for street lighting
- Maximum use of sunlight by providing bringing the daylight at a high location, filtering the light and bouncing it off surrounding surfaces.
- All lighting systems (interiors, external building features such as facades, illuminated roofs, architectural features, and building grounds) will be in conformance to the ECBC Code.

- To replace all the incandescent lamps and 40W tube lights with conventional choke with CFL & T5-28W tube lights respectively.
- To replace all the old tube light street light fixtures with energy efficient fixtures. Expenditure for replacement of CFL based light with T5-28W tube lights & old tube light street light fixtures with energy efficient fixtures will be recovered with in a period of 5 years through savings

  Another notification of Govt. of Haryana regarding use of solar water heating system has come on 29th July, 2005 vide letter no. 22/52/05-5P

  The use of solar water heating systems will be mandatory in the following categories of building namely:

  - Industries where hot water is required for processing
  - Hospitals and Nursing homes including Govt. hospitals
  - Hotels, Motels and Banquet halls
  - Jai Barracks, canteens
  - All residential buildings built on a plot of size 500 square yards and above falling within the limits of municipal committees/corporations and HUDA sectors
  - All government buildings, residential schools, educational colleges, hostels, technical/vocational education institutes

5.4. EFFLUENT TREATMENT PLANT

The following alternatives of treatment have been considered for evaluation of performance characteristics, land requirement, energy input, equipment requirement and operational characteristics.

- Conventional Activated Sludge Process (ASP)
- Up flow Anaerobic Sludge Blanket (UASB)
- Extended aeration
- Waste stabilization ponds
- Facultative aerated lagoon
- Moving Bed Bio Reactor Technology

The advantages and disadvantages of various processes are as under:-

- **Aerated Lagoon**

Advantages

i) Aerated lagoons are easy to run

ii) In operating Aerated Lagoons less skilled labour is required.

Disadvantages

i) Area requirement is large.

ii) Facultative aerated lagoons have higher civil works cost and lower mechanical and electrical works cost.

iii) Can pollute ground water unless adequate precautions are taken during construction to prevent seepage.

iv) Low BOD removal efficiency. Only about 80-85% BOD removal could be expected.

Due to large area requirement and other disadvantage this processis not suitable for the STP of this magnitude.

- **UASB**

Advantages

i) Being anaerobic process it requires lesser power consumption

ii) Methane gas is generated @0.08 to 0.1 cum. per kg of BOD load this process can be profitably used if the effluent BOD loads are high

iii) In this system, reduction of BOD up to 70-75% is achieved

Disadvantages

i) Being anaerobic in nature, it is susceptible to be able to have the bacteria are more susceptible to change. Raw effluent will have heavy materials and toxic compounds, which will inhabit the growth of bacteria.

ii) The process in is the development stage and has not been widely adopted.

iii) No significant operating data is available.

iv) UASB is not suitable for industrial wastes, due to high temperature variation in North India.

v) Treated effluent needs aeration before its final disposal, thus making it costlier then the aerobic treatment.

Observation

Based on the above, the process is not suitable for the present case.

- **Activated Sludge Process**

Advantages

i) Easy to run

ii) More suitable for any modification if required in future.

iii) As these ate aerobic in nature, thus bacteria are easy to maintain.

iv) Can achieve desired values of efficiency.

v) Process is dependent on power and will stop in case of power failure.

Disadvantages

i) Only drawback is high power requirement for supply of oxygen as compared to any other system suggested.

The conventional system represents early development of activated sludge process. Over the years, several modifications to this system have been developed to meet specific treatment objectives by modifying the process variables like loading rates, the mixing regime and flow scheme. A better alternate is the modified version of this process of extended aeration process detailed below.

- **Extended Aeration**

Advantage

i) High degree of treatment efficiency 95 to 98% BOD removal

ii) The excess sludge does not require separate digestion and can be directly dried on beds

iii) Excess sludge production is minimum

Disadvantage

i) Long aeration time

ii) Higher power consumption

iii) Less F/M ratio

Observation

Extended aeration process is advantageous over other sewage treatment methods as its results give very high efficiency, to the extent of 98%, cost effective with clear, sparkling and

odorless effluent and low pumping head requirement, its operation is simple and requires no skilled manpower.

- **Moving Bed Bio Reactor (MBBR)**

Advantage

i) Sensitivity to small power breakdowns is low
ii) Sludge re-circulation not needed and the system is self-sustaining
iii) Land request is about 60% of conventional system
iv) Low power consumption
v) High degree of treatment
vi) High degree of coli form removal
vii) Less chlorine dosing required

Disadvantage

i) Installation cost is quite high
ii) It requires highly skilled technical manpower for its operation

Observation

Since 64 MLD CETP of Kharkhoda is proposed to be constructed on extended aeration (activated sludge process), it would therefore be financially and technically viable to follow the same technology for proposed for IMT Kharkhoda.

CHAPTER 6

ENVIRONMENTAL MONITORING PROGRAM

6.0 INTRODUCTION

The purpose of the monitoring program is to ensure that the specified mitigation measures defined in the Environment Management Plan (EMP) are compiled and leads to the desired benefits for the target area and its population. To ensure the effective implementation of the EMP and gauge the efficiency of the mitigation measures, monitoring shall be undertaken both during the construction and operation phases of the project. This chapter describes the outlines of the monitoring program for the different environmental components during the construction and operation phases for evaluation of the environmental status of the area due to the project proponent as development of an Industrial Estate affects environment and monitoring is tool to assess quality of environment parameters and suggest to apply mitigation measures to recover environment which is affected due to project activities.

4.3 PERFORMANCE INDICATORS (PIs)

The physical, biological and social components are of particular significance to the project is as listed below:

- Air quality
- Water quality
- Noise levels
- Solid waste management
- Plantation success / survival rate

Of these, the following are selected as the Performance Indicators (PIs) and shall be monitored, since these are well known and comparative data series exist:

- Air quality
- Noise levels
- Water quality
- Flora
- Soil

To ensure the effective implementation of the mitigation measures and environmental management during construction and operation phases of project, it is essential that an effective Environmental Monitoring Plan be designed and followed as given inTable 6.1.

6.4.1 Ambient Air Quality (AAQ) Monitoring

Ambient air quality parameters recommended for monitoring with regard to constructional activities are PM, CO, SO_2, NO_2. Monitoring shall be carried out twice a week for one month in each season during construction phase in accordance to the National Ambient Air Quantity Standards 2009. The locations with the pollution parameters to be monitored are detailed out in the Environmental Monitoring Plan (Table 6.1).

6.4.2 Noise Level Monitoring

The measurements of noise levels will be carried out at all designated locations in accordance to the Ambient Noise Standards formulated by MoEF&CC as given. Noise level will be monitored on twenty-four hourly bases. Noise should be recorded at "A" weighted frequency using a slow time response mode of the measuring instrument. The measurement location, duration and the noise pollution parameters to be monitored are detailed in the Environmental Monitoring Plan (Table 6.1).

6.1.3 Success of Vegetation

To ensure the proper maintenance and monitoring of the proposed plantation activities, a regular survey of the survival rate of the planted trees is being proposed up to a period of 2 years from the start of operation of the project.

Table 6.1:Environmental Monitoring Plan

Environment Component	**Project stage**	**Parameter**	**Standards**	**Location**	**Duration / Frequency**
Ground Water Quality	Construction Stage	Drinking water parameters	Drinking water standards (IS:10500)	Project site (Center) Firozpur Bangar Jhinjholi Tarakpur Khurampur Gopalpur	Quarterly
	Operation Phase	Drinking water parameters	Drinking water standards (IS:10500)	Project site	Once every year during the dry season
Drinking water	Construction Stage	Drinking water parameters	Drinking water standards (IS:10500)	Supply water after treatment	Quarterly
	Operation Phase	Drinking water parameters	Drinking water standards (IS:10500)	Supply water after treatment	Quarterly
Surface water body	Construction Phase	pH, BOD, COD, TDS , TSS, DO, Oil & Grease and the pesticide being used	CPCB standard for Category **	Mohammadabad (Upstream) Nahara (Centre) Bawana (Downstream)	Summer season, before the onset on monsoon every year.
Treated wastewater	Operation Phase	pH, BOD, COD, TDS , TSS, DO,	General Standards for discharge of effluents	Outlet of the CETP	Every three months during the project life cycle

Environment Component	**Project stage**	**Parameter**	**Standards**	**Location**	**Duration / Frequency**
Air	Construction Phase	PM, SO_2, NO_2, CO	National Ambient Air Quality Standards	Project site (Center) Firozpur Bangar Daryapur Kalan Jhinjholi Qutabgarh BajitpurThakran NizampurKhurd Tarakpur Khurampur Gopalpur	Continuous 24-hourly, twice a week for one month, quarterlyeveryyear.
	Operation Phase	PM, SO_2, NO_2, CO, O_3	National Ambient Air Quality Standards	Project site (Center) Firozpur Bangar Daryapur Kalan Jhinjholi Qutabgarh	Continuous 24-hourly, twice a week for one month, once in a year (summer). Ozone – 8 hourly, twice a week for one month, once in a year (summer).

Environment Component	**Project stage**	**Parameter**	**Standards**	**Location**	**Duration / Frequency**
Noise	Construction Phase	Noise Level in dB (A)	As per Ambient Noise Standards	Firozpur Bangar Daryapur Kalan Khairpur Jhinjholi BajitpurThakran	One day hourly measurement, quarterly
	Operation Phase	Noise Level in dB (A)	As per Ambient Noise Standards	Project site (Center)	One day hourly measurement, annual

6.2DATA MANAGEMENT

The monitoring shall be carried out through MoEF&CC approved laboratory. All results shall be maintained at the project site and submitted to the CPCB as per the reporting requirements in the Environmental Clearance.

6.3 REPORTING SCHEDULES

The environment management cell shall be responsible for timely conduct of the monitoring activities. The results of the analysis shall be intimated to the project head. Any anomaly in test results shall be investigated into and proper corrective actions shall be undertaken.

A complaint register shall also be maintained to note any complaints from the staff and visitors in the project or any other stakeholder. Corrective actions taken against the complaints shall also be noted.

6.4 EMERGENCY

Alarming levels of pollutants in any of the monitored component may be because of concern for the Industrial Estate occupants and the neighboring area. Such information should be made available to the residents/ occupants through notices and the management alike for necessary action. The latter may also be consulted on necessary steps to be taken on an immediate and long term basis to tide over the problem.

6.5 OCCUPATIONAL HEALTH

Routine medical examination of personnel shall be carried out the Industrial Estate.People working at the high potential areas will be rotated at low potential and vice-versa. Health of the workers will be protected by routine medical check-up under the committee headed by Environmental Health & Safety Committee.

6.6 INTERACTION WITH REGULATORY BODIES

EMD shall be in regular touch with SPCB/ MoEF&CC and send them quarterly progress report on EMP. Any new regulations considered by State/ CPCB for the Industry will be complied with.

CHAPTER 7

ADDITIONAL STUDIES

INTRODUCTION

As per HSIIDC policy, Govt. of Haryana will get all statutory clearances and provide facilities essential for growth centres. HSIIDC will allot land and provide infrastructure facilities for development of non-polluting industries. This will generate revenue, employment and infrastructure and encourage people for self-sustenance. After liberalization of economy, fast development has posed wide ranging disaster on safety and health of people. It may adversely affect the environment, people's health and national economy unless management plan is applied for rescue & mitigation. Accidents can be minimized to a great extent by proper procedure, handling and training to reach zero risk or absolute safety level with Disaster Management Plan (DMP).

This chapter broadly looks at study that has been carried out for the purpose of better understanding of disaster during construction and operation of the project. It also highlights the in advance preparation to handle disaster with respect to both on site and off site emergencies.

7.1 DISASTER MANAGEMENT PLAN

A disaster is a catastrophic situation in which suddenly, people are plunged into helplessness and suffering and, as a result, need protection, clothing, shelter, medical and social care and other necessities of life. The Disaster Management Plan is aimed to ensure safety of life, protection of Environment, protection of installation, restoration of production and salvage operations in this same order of priorities. For effective implementation of the Disaster Management Plan, it should be widely circulated and a personnel training is to be provided through rehearsals/drills. To tackle the consequences of a major emergency inside the plant or immediate vicinity of the plant, a Disaster Management Plan has to be formulated and this planned emergency document is called "Disaster Management Plan".

The objective of the Industrial Disaster Management Plan is to make use of the combined resources of the plant and the outside services to achieve the following:

- Effect the rescue and medical treatment of casualties;
- Safeguard other people;
- Minimize damage to property and the environment;
- Initially contain and ultimately bring the incident under control;
- Identify any dead;
- Provide for the needs of relatives;
- Provide authoritative information to the news media;
- Secure the safe rehabilitation of affected area;
- Preserve relevant records and equipment for the subsequent inquiry into the cause and Circumstances of the emergency.

In effect, it is to optimize operational efficiency to rescue rehabilitation and render medical help and to restore normalcy.

Disaster Management Plan should include Emergency Preparedness Plan, Emergency Response Team, Emergency Communication, Emergency Responsibilities, Emergency Facilities, and Emergency Actions.

7.2 ON SITE MANAGEMENT PLAN

The on- site management plan will be circulated to all concerned member of emergency team. It is essential that all concerned personnel familiar themselves with the overall on- site emergency plan and their respective roles and responsibilities during emergency. Mock drill is an essential tool in a state of perpetual preparedness at all times to meet any emergency.

7.2.1 Objective of On-Site Emergency Plan

Risk analysis and risk assessment should provide details on Quantitative Risk Assessment (QRA) techniques used world-over to determine risk posed to people who work inside or live near hazardous facilities, and to aid in preparing effective emergency response plans by delineating a Disaster Management Plan (DMP) to handle on-site and off-site emergencies. Hence, QRA is an invaluable method for making informed risk-specific for any plant is complex and needs extensive study that involves process understanding, hazard identification, consequence modelling, probability data, vulnerability models/data, local weather and terrain conditions and local population data. QRA will be carried out to serve the following objectives:

- Identification of safety areas
- Identification of hazard sources
- Generation of accidental release scenarios for escape of hazardous materials from the facility
- Identification of vulnerable units with recourse to hazard indices
- Estimation of damage distances for the accidental release scenarios with recourse to maximum credible accident (MCA) analysis.
- Assessment of risk on the basis of above evaluation against the risk acceptability criteria relevant to the situation
- Suggest risk mitigation measures based on engineering judgment, reliability and risk analysis approaches
- Delineation/up gradation of DMP
- Safety reports: with external safety report/occupational safety report

The risk assessment report may cover the following in terms of the extent of damage with resource to MCA analysis and delineation of risk mitigations measures with an approach to DMP.

- Hazard Identification- identification of hazardous activities, hazardous materials, past accident records, etc.
- Hazard quantification- consequence analysis to assess the impacts
- Risk presentation
- Risk mitigation measures
- DMPs

The overall objective of Emergency Planning is to maximize the resource utilization and combined efforts towards emergency operation in short time.

7.2.2 Action Plan of on-site Emergency Plan

The action plan considered is given as follows:

- To constitute Disaster Management Committee under senior officer not below the rank of General Manager
- To identify potential hazards areas in the layout map of industrial estate
- To use model to predict hazards impact in the surrounding areas in form of pool-fire or gas leakage
- To predict degree of burns and distance of the risk zone by using model
- To evacuate the area within risk zone
- To localize the emergency and if possible eliminate it
- To minimize the effects of accidents on people and property
- To take remedial measures in the quickest possible time to contain the incident and control it with minimum damage
- To mobilize the internal resource and utilize them in the most effective way
- To get help from the local community and government official to supplement internal manpower and resources
- To minimize the damage in other sections
- To keep the required emergency equipment in stock at right places and ensure that they are in working condition
- To keep the concerned personnel fully trained in the use of emergency equipment
- To give immediate warning to the surrounding localities in case of emergency situation arising
- To mobilize transport and medical treatment of the injured
- To educate the public in the surrounding village regarding hazards
- To arrange treatment of causalities
- To safe guard the people
- To identify the causalities and communicate to persons known to them
- To render necessary help to concerned

- To rehabilitate area affected
- To provide information to media and government agencies

7.2.3 Scope of On-Site Emergency Plan

The plan covers information regarding the properties of the industry, type of disasters and disaster/accident prone zones. The important elements considered in this plan are:

- Statutory requirement
- Emergency organization
- Roles and responsibility
- Communications during emergency
- Emergency facilities
- Important information

The primary purpose of the on- site emergency plan is to control and contain the incident and so to prevent it from spreading. To cover eventuality in the plan and the successful handling of the emergency will depend on appropriate action and decision being taken on the spot.

7.2.4 Emergency

A major emergency in any situation is one, which has the potential to cause serious injury or loss of life, which may cause extensive damage to the structure in vicinity and environment and could result in serious disruption to normal operation both inside and outside the industry premises. Depending on the magnitude the emergency, service of the outside agencies may also be damage.

The management has to take effective steps to assess, minimize and wherever feasible eliminate the risk to large extent. Accident may still occur and it is necessary to be fully prepared to tackle all such emergencies if and when they occur.

It is likely that the consequences of such emergencies will be confined to the units concerned or may affect outside. If the consequences are confined within the plant boundary, it will be controlled by **Chief Emergency Controller**. The most widely used techniques in practice is based on experience accumulated over many year and safety audits.

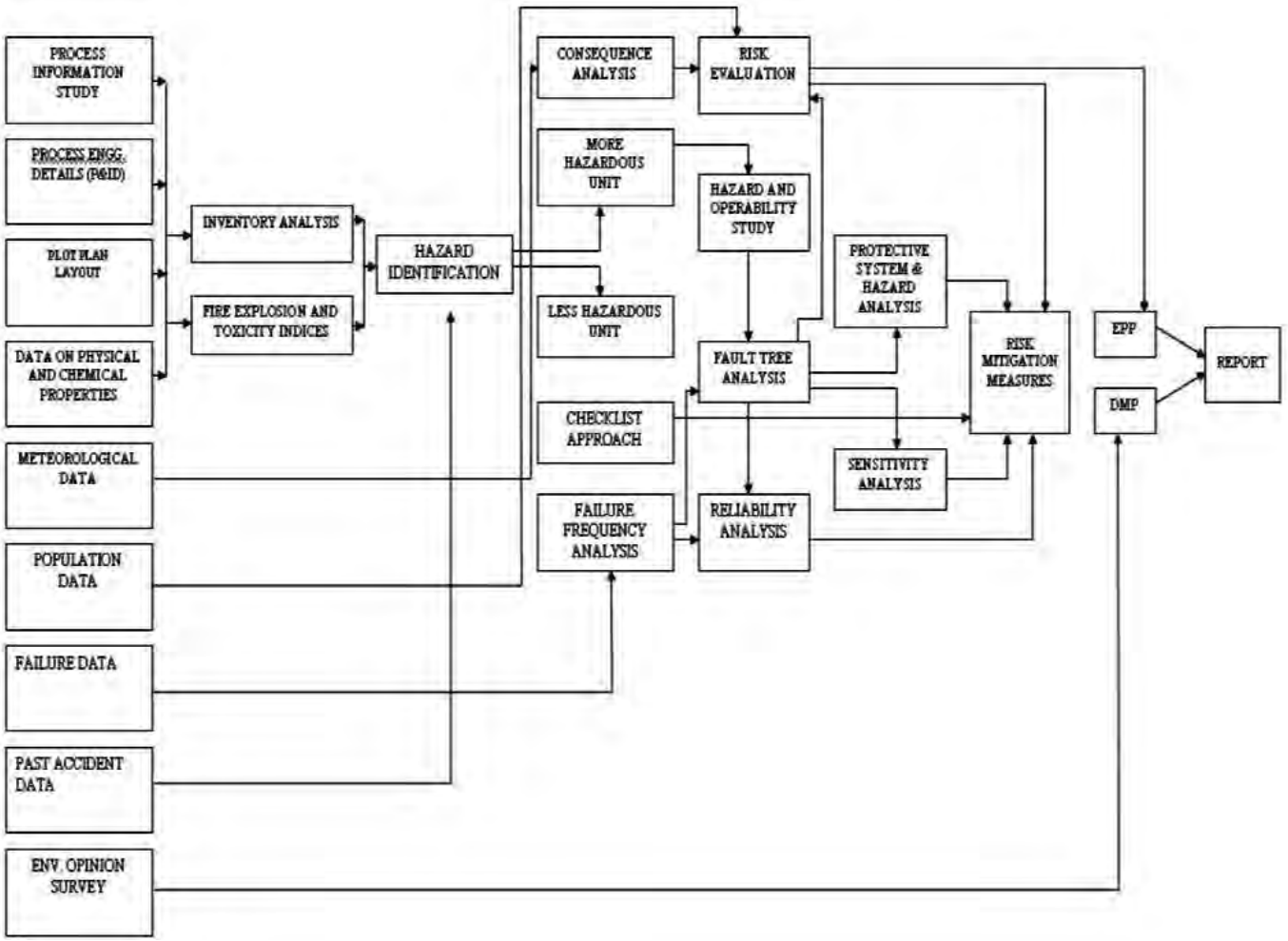


Figure 7.1:Comprehensive Risk Assessment - At a Glance

7.2.5 Type of Emergency, External and Internal Origin of Hazards

It is attempted to plan and construct the buildings following all safety norms. However, it is not always possible to totally eliminate such eventualities and random failures of equipment or human errors. An essential part of major hazard control has therefore, to be concerned with mitigating the effects of such emergency and restoration of normalcy at the earliest. Detailed Table showing activities during construction and operation phases along with mitigation measures are given in Table 7.1.

Table 7.1: Activities during Construction and Operation along with Mitigation Measures

Hazards Associated with Activities	Control / Mitigation Measures
Manual Handling Strains and sprains - incorrect lifting - too heavy loads -twisting - bending - repetitive movement - body vibration.	Exercise/ warm up-get help when needed-control loads-rest breaks/ no exhaustion-no rapid movement/ twisting/ bending/repetitive movement - good housekeeping.
Falls - Slips - Trips Falls on same level - falls to surfaces below - poor housekeeping- slippery surfaces uneven surfaces -poor access to work areas climbing on and off plant-unloading materials into excavations wind - falling objects.	Housekeeping - tidy workplace - guardrails, handholds, harnesses, hole cover, hoarding, no slippery floors/trip hazards - clear/ safe access to work areas-egress from work areas - dust/water controlled - PPE.
Fire Flammable liquids/Gases like LPG, Diesel Storage area and combustible building materials - poor housekeeping - grinding sparks - open flames, absence of Fire hydrant network.	Combustible/ flammable materials properly stored / used -good housekeeping-fire extinguishers made available & Fire hydrant Network with reserve Fire water (As per NFPA Code) - Emergency Plan in case of Fire or collapse of structure.
Absence of Personal Protective Equipment Lack of adequate footwear- head protection hearing/ eye protection - respiratory protection-gloves-goggles.	Head / face- footwear- hearing / eye-skin-respiratory protection provided - training-maintenance.

Hazards Associated with Activities	Control / Mitigation Measures
Defective or wrong Hand Tools Wrong tool - defective tool - struck by flying debris- caught in or on -missing guards -carbon monoxide - strains and sprains - dust.	Right tool for the job - used properly - good condition/ maintenance guards- isolation- eye/ face protection - flying debris controlled.
Electricity Electrocution – overhead / underground services - any leads damaged or poorly insulated- temporary repairs -no testing and tagging- circuits overloaded-nonuse of protective devices.	Leads good condition and earthed - no temporary repairs - no exposed wires-good insulation-no overloading - use of protective devices - testing and tagging -no overhead/ underground services
Scaffolding Poor foundation-lack of ladder access insufficient planking-lack of guardrails and toe boards-insufficient ties or other means-all scaffolds incorrectly braced or stabilized to prevent overturning.	All scaffolds correctly braced and stabilized - 3:1 height to base ratio - firm foundation, plumb and level - ladder access provided and used - proper platform (3 planks/ 675 mm) - planks secured- guardrails and toe boards – 900 mm to 1100mm high, within 200 mm of working face, mid - rail.
Ladders Carrying loads - not secured against dislodgement - defective ladders– not sufficient length- wrong positions - incorrectly placed (angles, in access ways, vehicle movements.	Secured against movement or footed - ladders in good condition - regularly inspected - extend one (1 m) meter above platform - 4:1 angle - out of access ways, vehicle movements - climbing - no carrying loads - 3 points of contact - no higher than 3rd step down - use for access only, not working platforms.

Hazards Associated with Activities	Control / Mitigation Measures
Excavations Trench collapse - material falling in undetected underground services-falls-hazardous atmosphere struck by traffic and mobile plant.	Soil stability known-no water accumulation- existing services known - material 600 mm from edge - clear of suspended loads-hardhats/ PPE- ladders - public protection - atmospheric testing-traffic controls - Emergency Plan.
Gas Cutting and Welding Fire-welding flash, burns, fumes, electrocution in wet conditions- flashback in oxygen set, leaking cylinders, acetylene cylinders lying down-poorly maintained leads.	Welding flash and burns controlled with PPE and shields -fumes controlled with ventilation and PPE (in good condition and properly positioned),Gas cylinders be kept upright & secured position (properly tied) - combustible materials to be kept at secured place to avoid fire & Fire Extinguishers to be kept in fire prone area with training to people for its use.
Noise Unknown noise levels - known noise levels over 85 decibels	Levels below 85 decibels - proper protection.
Falling Material Fall during carrying/ Lifting materials-dislodged tools and materials from overhead work areas.	Materials to be secured-kept away from edge- toe boards -Use of hard hats.
Carnage& Lifts Display of carrying capacity i.e. load (No. of person) incorrectly slung, defective lifting equipment, unsecured loads, craning in close proximity to building people and plant- falls-falling materials.	Periodic testing by competent authority-correctly slung/ secured loads, lifting equipment good condition-use of proper hand signals - falls while unloading controlled.

Hazards Associated with Activities	Control / Mitigation Measures
Visitors Presence at site Falls -struck by - dropped materials-road accidents -insufficient hoarding or fencing-pedestrian access past site-mechanical plant movement on and off site	Sufficient hoarding - fencing and barricades-safe pedestrian access past site traffic management for loading and delivery- construction separated from occupied areas of projects

7.2.6 Response team

Setup an **Emergency Organization**. Emergency Organization includes the senior executive (head of EO as a Site controller), Manager Safety (Incident controller), Shift incharge, Emergency Coordinators.

- All Incident control would be reporting to the Site Controller. Each Incident Controller organizes a team responsible for controlling the incidence with the personnel under his control.
- **Shift In-charge** would be the reporting officer, who would bring the incidence to the notice of the Incidence Controller and Site Controller.
- **Emergency Coordinators** would be appointed who would undertake the responsibilities like firefighting, rescue, rehabilitation, transport and provide essential and support services. For this purposes, security in-charge, personnel department, essential services personnel would be engaged. All these personnel would be designated as key personnel.
- In each shift, electrical supervisor, electrical fitters, pump house in-charge, and other maintenance staff would be drafted for emergency operations. In the event of power or communication system failure, some of staff members in the office/facility would be drafted and their services would be utilized as messengers for quick passing of communications. All these personnel would be declared as essential personnel.

7.2.7 Emergency Facilities

- Emergency Control Center – with access to important personnel, telephone, fax, telex facility, safe contained breathing apparatus, hand tools, emergency shutdown

procedures, duties and contact details of key personnel and government agencies, emergency equipment, etc.

- Assembly Point – with minimum facilities for safety and rescue
- Emergency Power Supply – connected with diesel generator, flame proof emergency lamps, etc.
- Fire Fighting Facilities – first aid fire-fighting equipment, fire alarms, etc.
- Location of Wind Stock – located at appropriate location to indicate the direction of wind for emergency escape.
- Emergency Medical Facilities – Stretchers, gas masks, general first aid, emergency control room, breathing apparatus, other emergency medical equipment, ambulance.
- The medical centre should display poster for treating burns and first aid. Some medicines and facilities to be kept in the medical centre are suggested. The list is indicative and the qualified doctors of the medical centre will be deputed in professional judgment for medical treatment.

Health and Safety Measure for the workers

All workmen employed in working conditions will be provided with adequate personal safety equipment as applicable to the work lies:

- Industrial safety shoes
- Industrial helmets
- Hand gloves
- Ear muffs
- Welder screen

7.2.8 Methodology

The considerations in an emergency planning include the following:

- Identification and assessment of hazards and risks
- Hazard consequences analysis
- Alarm and communication procedures
- Identification and equipping emergency control centre identify assembly, rescue points, medical facilities

- Emergency preparedness plan, procedure, steps to be taken before during and after emergency
- Formulation of plan and emergency sources
- Training rehearsal, evaluation and updating the plan
- Regularly examined the machinery
- Medical examination for every employee shall be examined by doctors at least 3 months in a calendar. Health register should be maintained by the individual industry coming in the project site

Structure of Emergency Management

- Mock drills
- Noticing the accidents
- Informing declarer of emergency
- Declaration of emergency (Public information and warning)
- Evacuation of Personnel
- Functions of declarer
- Interaction with outside agencies
- All Clear Signal
- Mutual aid

7.2.8.1 Emergency Action plan for LPG leakage

1. Evacuate the area to a minimum of 200 metres from the cylinder.
2. Advice neighbours within the 200-metre hazard zone area about the danger.
3. Shutdown the main valves in the gas bank.
4. Personnel in the nearby building to close all doors and windows to prevent entry of the leaked gas.
5. Cylinders which are not directly involved in the fire and have not become heated should be moved as quickly as possible to a safe place, provided this can be done without risk to personnel. Make sure the cylinder valves are closed.
6. Source of leakage to be traced and isolated from all the other areas and if required use pedestal fans to bring down the gas concentration.

7. The fire service arrives; explain the location and number of gas cylinders directly involved in the fire and the names of the gases they contain.
8. Never move or use cylinders that have been exposed to a fire until the fire service or BOC has declared it safe to do so.

Dissolved Acetylene (DA) Cylinders

- Once the fire has been extinguished, dissolved acetylene cylinders which have been involved in the fire need to be cooled for a total of 24 hours.
- The fire service will impose a cordon while the cylinder is cooled.
- Ensure nobody tampers or interferes with the DA cylinder during this period. The fire service will inform you when it is safe to handle the cylinder.
- BOC will arrange for the collection of the DA cylinder after the 24-hour cooling period.

7.2.8.2 Emergency Action Plan for Office Fire

- In case of Fire the immediate plan of action will be **"RACE"** that stands:

  R - Rescue: When you discover a fire, rescue people in immediate danger if you can do so without endangering yourself. Exit via fire exit. Never use elevators.

  A - Alarm: Sound the alarm by pulling a fire pull station and call 911, from a safe distance, notify security of precise location of fire

  C - Confine: Close all doors, windows and other openings

  E - Evacuate: Evacuate the building

- Alert people in the immediate area to begin evacuation. Assist those with disabilities.
- Immediately informed the response team. Response team moves to the point of fire and take all necessary steps to stop the fire. If the fire is not controllable and spreads then the manager in charge should inform the district authorities and call for external help.
- Complete an Incident/Accident Report within 24 hours.

7.2.8.3 Emergency Action Plan for Electric Fire

- Disconnect the affected areas electric supply

- If fire is small scale than $NAHCO_3$ or Sand will be effective.
- Attempt to extinguish fire with the help of CO_2 based extinguisher

7.2.8.4 Emergency Action Plan for Natural Hazard Earth Quake

If Indoors

1. Take cover under a piece of heavy furniture or against an inside wall and hold on.

2. Stay inside: The most dangerous thing to do during the shaking of an earthquake is to try to leave the building because objects can fall on you.

If Outdoors

Move into the open, away from buildings, streetlights, and utility wires. Once in the open, stay there until the shaking stops.

If in a Moving Vehicle

Stop quickly and stay in the vehicle. Move to a clear area away from buildings, trees, overpasses, or utility wires. Once the shaking has stopped, proceed with caution. Avoid bridges or ramps that might have been damaged by the quake.

After The Quake

1. After the quake be prepared for aftershocks.

2. Although smaller than the main shock, aftershocks cause additional damage and may bring weakened structures down. Aftershocks can occur in the first hours, days, weeks, or even months after the quake.

Help Injured or Trapped Persons

1. Give first aid where appropriate. Do not move seriously injured persons unless they are in immediate danger of further injury. Call for help.

2. Remember to help those who may require special assistance-infants, the elderly, and people with disabilities.

3. Stay out of damaged buildings.

4. Use the telephone only for emergency calls.

Response Procedure for Emergency Team

1. Formulate an Emergency Response Team for earthquake response. Using the public address system, inform residents of response procedures discussed above.

2. Inform the necessary authorities for aid.

3. Ensure no person is stuck beneath any debris, in case of a structural failure.

4. Ensure that all occupants standing outside near the buildings are taken to open areas.

5. Ensure that the first aid ambulance and fire tender vehicles are summoned if necessary.

6. Inform the nearby hospitals if there are any injuries.

7. Check the utilities and storage tanks for any damage.

7.3 PUBLIC HEARING

Public consultation is an integral part of project requiring prior EC. Public consultation is the process by which the concerns of local affected persons and others who have reasonable stake in the environmental impacts of the project or activity are ascertained. The project falls under schedule 7(c), Category 'A', activities shall undertake Public Consultation as per the provisions of EIA notification 14 Sep. 2006. The application was submitted to Haryana State Pollution Control Board by the PP alongwith the EIA report, executive summary in Hindi, and English for its wide circulation.

The Public hearing for the project was held on 08.03.2019 at project site by HSPCB for general information regarding Environmental Clearance of M/s Haryana State Industrial & Infrastructure Development Corporation Ltd., for Industrial Model Township KharkhodaSonepat, (Haryana).

Sh. Jaibir Singh Arya, Additional DeputyCommissioner, Sonepat chaired the public hearing.

In addition to Sh. Jaibir Singh Arya, Public Hearing was attended by following representatives of the different departments:-

1. Miss. Shweta Suhag, SDM, Kharkhoda
2. Sh. Lalit Malik, AEE, HSPCB, Sonepat
3. Sh, Sanjeev Kumar, AEE, HSPCB, Sonepat
4. Sh.VikashHooda, JEE, HSPCB, Sonepat
5. Sh. Arun Kumar Garg, AGM (IA) HSIIDC, KundliSonepat
6. Sh. Kapil Kumar, Assistant Director, D.I.C Sonepat

7. Sh. Robin Bathla, Manager(IA), HSIIDC, Kundli, Sonepat

7.3.1 PHOTOGRAPHS OF PUBLIC HEARING

7.3.2 PROCEEDINGS OF PUBLIC HEARING

The records of the proceedings along with reply and action plan are attached at **Annexure XIV (A) & (B).**

CHAPTER 8

PROJECT BENEFIT

8.0 INTRODUCTION

Industrial Estate IMT Kharkhoda is located on the edges of the main residential area of the city, it has good transportation access, including road and rail.

This idea of setting land aside through this type of zoning is based on several concepts:

- To be able to concentrate dedicated infrastructure in a delimited area to reduce the per-business expense of that infrastructure. Such infrastructure includes roadways, railroad sidings, ports, high-power electric supplies (often including three-phase power), high-end communications cables, large-volume water supplies, and high-volume gas lines.
- To be able to attract new business by providing an integrated infrastructure in one location.
- To set aside industrial uses from urban areas to try to reduce the environmental and social impact of the industrial uses.
- To provide for localized environmental controls that is specific to the needs of an industrial area.

Industrial Estate, IMT Kharkhoda isto be developed over an area of 3217.19 acres in Kharkhoda, Sonepat, Haryana. The site is well connected to the KMP expressway and SH-18. HSIIDC is proposing to provide the infrastructure facilities in the form of construction of roads along with its allied works i.e. foot path, laying of public health service comprising water supply distribution network including sewerage system, drainage network, laying of wastewater distribution system, laying of external electrification network, street lights, construction of CETP etc.

Govt. of India's decision regarding foreign direct investment has made direct impact in this direction and has given boost to industrialization. State Government too has offered an incentive for investments to come in Haryana State Industrial & Infrastructure Development Corporation (HSIIDC) is the nodal agency for the purpose.

Industrial development in an area plays significant role in improvement of economic condition and potential of employment generation

8.1 GENERAL ADVANTAGES OF INDUSTRIAL ESTATES

Constructing Industrial Estates has lots of advantages such as:

1. Getting rid of health hazards and damages to buildings which may be caused by accidents occurring in factories and workshops.
2. Reducing noise pollution caused by factories and workshops.
3. Industrial Estates contribute to maintain cities clean. In the absence of well-organized industrial areas lots of Wadis (so called Saila), streets and footpaths suffer from pollution with oils, lubricants and industrial rubbish. Reducing noise and clean cities have positive effects on tourism. Collection, transport, and disposal of normal and hazardous waste in the Industrial Estate (solid waste management) take place according to laws issued by the government and under the supervision of the responsible authority.
4. The development of Industrial Estates also aim at limiting environmental pollution caused by factories, workshops and slaughterhouses especially the pollution of groundwater.
5. Industrial Estates enable the responsible authorities to better supervise factories, workshops and slaughterhouses.
6. Industrial Estates have among other things their own water supply, water networks, sanitation networks, electric power connection and distribution system and standby generator, thereby decreasing noteworthy the load for the cities supply, distribution and disposal networks.
7. Due to the high population growth rate in developing countries sewage treatment plants are often overloaded. The extension of these plants is hardly possible because there is no additional area or because of the high cost for the extension. Constructing Industrial Estates that have their own sewage treatment plant decreases the load on the city sewage treatment plant and ease the operation. As factories and workshops in developing countries usually don't have pretreatment plants, oils and lubricants used for repair and maintenance of transportation vehicles, industrial wastewater and wastewater from slaughterhouses complicate the operation of sewage treatment plants. Each tenant at the Industrial Estate is required to pre-treat his industrial wastewater to agreed standards prior to conveying it to the Industrial Estate's sewage treatment plant. Treated wastewater can then more easily meet international standards for the

reuse in agriculture and as such the treated effluent can be used by farmers in nearby agricultural areas.

8. Constructing Industrial Estates encourages local investors and foreign companies to invest in this country. The existence of Industrial Estates means, investors are not forced to go through a complicated process that can last years in developing countries (searching a suitable land, getting the necessary permissions from the concerning authorities, constructing infrastructure and get necessary services).

9. Encouraging investors through the construction of Industrial Estates contributes to create sustainable jobs, decrease unemployment and reduce poverty. In addition to the direct employment at the industrial estate, big number of indirect jobs is created. Workers' skills enhancement is also a noteworthy advantage.

10. Investors contribute to the development of the national economy through paying rent for the lot or buying the lot, taxes paid by themselves and by their employees, producing goods not existing at the local market and as such reducing the import rate, production of products at competitive costs which can be exported to foreign markets.

8.2 PHYSICAL INFRASTRUCTURE

The Industrial Estates will haveindustrial plots, commercialarea, institutional area, hostel & other facilities also. While it will help in meeting the growing industrial need for nation, it also providescommercial facilities to the people. Care has been taken to provide the occupants with necessary facilities as power, water supply, parking spaces, and broad roads that are safe and secure.

8.3 SOCIAL INFRASTRUCTURE

An Industrial Estate of this scale sets in an overall development of the region, with construction of new or maintenance and widening of existing roads, power supply and water supply, by measuring the prominence of the area.

8.4 ECONOMIC BENEFITS

The project will entail positive impact on the local as well as state economy in a convenient way. The construction phase of the project will engage a large number of construction workers, i.e. skilled, semi-skilled or unskilled. The workers will also be ensured welfare facilities such as drinking water, sheds for resting, medical aids, and aid in children's education.

In meeting the day-to-day and recreational demands of the residents of the site, the region is also likely to develop a number of shopping, commercial and amusement facilities, thereby, further stimulating the local economy.

The project will provide employment to skilled and unskilled laborers at various levels directly or indirectly. In operation phase also due to industrial development, a number of employments will be generated. It will provide various business opportunities for entrepreneurs for setting up the different types of industries. The project will help in infrastructure development in the villages and others people of economically weaker sections. Need based survey will be conducted and people under this category will be provided assistance as per requirement. HSIIDC also provides the R&R policy for the farmers, whose land is acquired for the industrial development. Land acquisition has completed, compensation has been given to the farmers. Project will provide infrastructural development in the area that will improve local economy. More educational, medical, commercial and cultural centers are likely to be developed in the area.

CHAPTER 9

ENVIRONMENT COST & BENEFIT ANALYSIS

9 INTRODUCTION

HSIIDC (public sector Company of Govt. of Haryana) aimed to make all round economic development in the state by providing world class infrastructure through timely provision of support services and facilitations to develop industries at various locations in the state. HSIIDC owned by the Government of Haryana working as a catalyst for promoting and accelerating the pace of industrialization in the State through industrial infrastructure development in the State and provides a wide spectrum of services under one roof with the concept of "Total Industrial Support" for the entrepreneurs. It has played a key role in the progress of Haryana and has been instrumental in the evolution of Haryana from a primarily agrarian state to one of the highly industrialized states in the country. HSIIDC has clearly set a new order in motion in the State which, by virtue of its influence, has dynamic future, resounding with greater progress and prosperity. 857projects with foreign technical collaboration such as MarutiUdyog Limited, Hero Honda, Modi Alcatel, Escorts, Sony India, VXL India, Whirlpool Industries, Wipro Ltd. etc. and some major units in the public sector are HMT Ltd., National Fertilizer Ltd., Indian Drugs & Pharmaceutical Ltd., Bharat Electronics Ltd. IBPL etc. are outcome of these efforts. IMT Kharkhoda is one of the industrial sites developed by HSIIDC to develop non-polluting industries in the total area of 3217.19 acres in the district of Sonepat. Project aimed to develop infrastructure facilities which are essential for industrial development along with all statutory clearances under single window clearance. Infrastructure development cost is estimated around Rs. 2300 Crore as follows as per DPR and pre-feasibility report of the project. The cost breakup as per DPR is given as follows:

Land cost = INR 1700 Crore
Development cost = INR 2300 Crore

Total Project Cost: 4000cr.

9.1 POTENTIAL IMPACT

Growth of industries has adverse impact on environment. Air, water and soil quality are deteriorated. Noise level exceeds standards applicable for the area during day and night which has impact on human health and economy of the nation. Separate action plan for mitigation under Environment Management Plan is prepared to recover environment degradation as mitigation measures. Preparation of environmental management plan is required for formulation, implementation and monitoring of environmental protection measures during and after commissioning of projects. The plans should indicate the details as to how various measures have been or are proposed to be taken including cost components as may be required. Cost of measures for environmental safeguards should be treated as an integral component of the project cost and environmental aspects should be taken into account at various stages of the projects:

- Conceptualization: preliminary environmental assessment
- Planning: detailed studies of environmental impacts and design of safeguards
- Execution: implementation of environmental safety measures
- Operation: monitoring of effectiveness of built-in safeguards

The management plans should be necessarily based on considerations of resource conservation and pollution abatement, some of which are:

- Liquid effluents
- Air pollution
- Solid wastes
- Noise and vibration
- Occupational safety and health
- Prevention, maintenance and operation of environment control systems
- House-Keeping
- Human settlements
- Transport systems
- Recovery - reuse of waste products
- Vegetal cover
- Disaster planning

- Environment Management Cell

1. Liquid Effluents

- Effluents from the industrial plants should be treated well to the standards as prescribed by the Central/State Pollution Control Boards.
- Soil permeability studies should be made prior to effluents being discharged into holding tanks or impoundments and steps taken to prevent percolation and ground water contamination.
- Special precautions should be taken regarding flight patterns of birds in the area. Effluents containing toxic compounds, oil and grease have been known to cause extensive death of migratory birds. Location of plants should be prohibited in such type of sensitive areas.
- Deep well burial of toxic effluents should not be resorted to as it can result in re-surfacing and ground water contamination. Re-surfacing has been known to cause extensive damage to crop and live stocks.
- In all cases, efforts should be made for re-use of water and its conservation.

2. Air Pollution

- The emission levels of pollutants from the different stacks should conform to the pollution control standards prescribed by Central or State Pollution Control Boards.
- Adequate control equipment should be installed for minimizing the emission of pollutants from the various stacks.
- In-plant control measures should be taken to contain the fugitive emissions.
- Infrastructural facilities should be provided for monitoring the stack emissions and measuring the ambient air quality including micro-meteorological data (wherever required) in the area.
- Proper stack height as prescribed by the Central/State Pollution Control Boards should be provided for better dispersion of pollutants over a wider area to minimize the effect of pollution.

3. **Solid Wastes**

- The site for waste disposal should be checked to verify permeability so that no contaminants percolate into the ground water or river/lake.
- Waste disposal areas should be planned down-wind of villages and townships.
- Reactive materials should be disposed of by immobilizing the reactive materials with suitable additives.
- The pattern of filling disposal site should be planned to create better landscape and be approved by appropriate agency and the appropriately pre-treated solid wastes should be disposed according to the approved plan.
- Intensive programs of tree plantation on disposal areas should be undertaken.

4. **Noise and Vibration**

Adequate measures should be taken for control of noise and vibrations in the industry.

5. **Occupational Safety and Health**

- Proper precautionary measures for adopting occupational safety and health standards should be taken.

6. **Prevention, Maintenance And Operation of Environment Control Systems**

- Adequate safety precautions should be taken during preventive maintenance and shut down of the control systems.
- A system of inter-locking with the production equipment should be implemented where highly toxic compounds are involved.

7. **House - Keeping**

Proper house-keeping and cleanliness should be maintained both inside and outside of the industry.

8. **Human Settlements**

- Residential facilities would be located away from the solid and liquid waste dumping areas. Meteorological and environmental conditions should be studied

properly before selecting the site for residential areas in order to avoid air pollution problems.

- Persons who are displaced as a result of the project would be properly rehabilitated as per R&R policy of State government.

9. Transport Systems

- Proper parking places should be provided for the trucks and other vehicles by the industries to avoid any congestion or blocking of roads.
- Sitting of industries on the highways should be avoided as it may add to more road accidents because of substantial increase in the movements of heavy vehicles and unauthorised shops and settlements coming up around the industrial estate.
- Spillage of chemicals/substances on roads inside the plant may lead to accidents.Proper road safety signs both inside and outside the plant should be displayed for avoiding road accidents.

10. Recovery - Reuse of Waste Products

Efforts should be made to recycle or recover the waste materials to the extent possible.The treated liquid effluents can be conveniently and safely used for irrigation of lands,plants and fields for growing non-edible crops.

11. VegetalCover

Industries would plant trees and ensure vegetal cover in their premises. This is particularly advisable for those industries having more than 10 acres of land.

12. Disaster Planning

Proper disaster planning should be done to meet any emergency situation arising due to fire,explosion,sudden leakage of gas etc.Fire fighting equipment and other safety appliances should be kept ready for use during disaster/emergency situation including natural calamities like earthquake/flood.

13. Environment Management Cell

Each industry should identify within its setup a Department/Section/Cell with trained personnel to take up the model responsibility of environmental management as required for planning and implementation of the projects.

The potential areas were identified and impact was studied in various forms on the environment attributes as given below:

Table 9.2: Impact Assessment

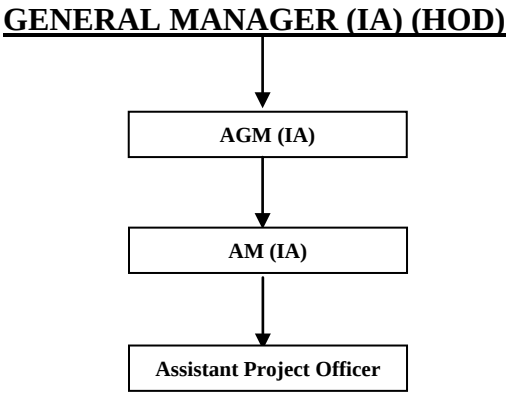
Potential Field	Impact on various parameter	Result of impact
Land	Land degradation, decrease of - forest areas, crops, fuel, fodder, land for cultivation, exploitation of environmental resources, and rise of ecological imbalance.	Threat on livelihood, degradation of natural resources and imbalance on climatic condition, rise of green house gases.
Water	Dumping of industrial waste of on the open air and in surface water. Deterioration of ground and surface water quality.	Ground and surface water will be unfit for human consumption. Polluted water has impact on human health. There will be rise of water born diseases. Esophageal disease such as stomach and liver cancer will increase. Finally fatality rate will increase. More people will die due to water born disease which has vital impact on rural areas. Major part of income will be diverted for health. Economy of a country will be affected.
Soil	Soil pollution leads to increase in contaminant, toxic compounds, radioactive elements and heavy metals. Industrial wastes such as harmful gases and chemicals.	Decrease in soil fertility causes decrease in the soil yield. Loss of soil and natural nutrients present in it. Plants would not thrive in such soil, which would further result in soil

	Improper septic system and management and maintenance of the same. When fumes released from industries get mixed with rains forms acid rain. Fuel leakages from automobiles get washed away due to rain and seep into the nearby soil. Unhealthy waste management techniques which are characterized by release of sewage into the large dumping grounds pollute soil.	erosion. Disturbance in the balance of flora and fauna residing in the soil. Increase in salinity of the soil, which therefore makes it unfit for vegetation, thus making barren land not fit for agriculture. Crops would be poisonous enough to cause serious health problems in people after consuming. Creation of toxic dust is another potential effect of soil pollution. Foul smell due to industrial chemicals and gases might result in headaches, fatigue, nausea, etc. Soil pollutants would bring in alteration in the soil structure, which would lead to death of many essential organisms. This would also affect the larger predators and compel them to move to other places for safety and survival.
Noise level	Noise level at 1 (one) m from the source and at project boundary will be in rise as compared to the standards.	Increased noise level will have direct impact on human health in form hearing loss. Long exposure to high noise levels may cause headache and cardiovascular disease.
Fauna & flora	Industrialization leads to degradation of forest which causes extinction of fauna and flora	One of the major effects of deforestation is loss of biodiversity. Trees and forested areas can provide food and habitats to an enormous amount of plant and animal life. They provide high branches for birds, vegetation for insects and animals to eat, shelter for shade-plants and burrows for animals such as

		squirrels and foxes, as well as beneficial nutrients for the soil. When deforestation occurs, a high percentage of local plants and animals will disappear, as the environment cannot support their existence. Many species face extinction primarily due to deforestation.

9.2 ENVIRONMENT MANAGEMENT PLAN AND COST

Environment Management Cell (EMC) will be constituted under the Sh. P.K Garg, GM (IA), HSIIDC. There will be one AGM (IA), one Assistant Manager (IA) and one Assistant Project Officer through Security Agency. Causal laborers will be hired as required by EMC during transportation and installation of the instruments. Hierarchy of EMC will be as follows:



Environment Monitoring Cost

Monthly monitoring of ambient Air and Water will be conducted at Ten (10) and Nine (9) locations (Ground Water – 6 & Surface Water -3) respectively except monsoon. Soil and noise monitoring will be conducted once in season. There will be no monitoring during monsoon season as it is assumed that pollutants will be settled during monsoon, however online monitoring of meteorological data will be conducted at the site. Cost of environment monitoring is calculated as follows:

Table 9.3: Environment Monitoring Cost

Monitoring months		**Cost of Monitoring of Environment Parameters in Lakhs**				
		Ambient Air	**Water**	**Soil**	**Noise**	**Meteorological Parameters**
Summer Season	**March**	3.2	0.9			Wind speed, Wind direction, Temperature, cloud cover, Rainfall and as in EC/CTE
	April	3.2	0.9	0.7	0.7	
	May	3.2	0.9			
Monsoon	**June**	No Monitoring	0.9	No Monitoring	No Monitoring	
	July		0.9			
	August		0.9			
	September		0.9			
Post-monsoon	**October**	3.2	0.9			
	November	3.2	0.9	0.7	0.7	
	December	3.2	0.9			
Winter	**January**	3.2	0.9	0.7	0.7	
	February	3.2	0.9			
Total		**25.6**	**10.8**	**2.10**	**2.10**	**2.0**

CHAPTER 10

ENVIRONMENTAL MANAGEMENT PLAN

10 INTRODUCTION

Industrial development is an important constituent in our pursuits for economic growth, employment generation and betterment in the quality of life. On the other hand, Industrial activities without proper precautionary measures for environmental protection are known to cause pollution and associated problems. Hence, it is necessary to comply with the regulatory norms for prevention and control of pollution. Alongside, it is also imperative to go beyond compliance through adoption of clean technologies and improvement in management practices.

Preparation of Environmental Management Plan is required for formulation, implementation and monitoring of environmental protection measures during and after commissioning of the project. Environmental Management Plan details the various measures that are proposed. The base line setting of different relevant environment components in the study area and predicted potential impacts on those components due to the project are discussed.

The Aims of EMP are

- Overall conservation of environment
- Minimize disturbance to native flora and fauna
- Prevent and to attenuate air, water, soil and noise pollution
- Encourage the socioeconomic development
- Minimization of waste generation
- Safety, welfare and good health of the work force
- Ensure effective operation of all control measures
- Vigilance against probable disasters and accidents
- Monitoring of cumulative and long-time impacts
- Ensure effective operation of all control measures
- Sustainable use of resources
- Management of the risks to reduce or eliminate hazards

The project will create certain inevitable impacts, mainly during construction phase, that can be mitigate with the help of effective implementation of a well-designed EMP. The impactswhich need to be regulated are mentioned below:

- Air pollution due to the emission of particulate matter and gaseous pollutants from operation of D.G. sets during power failure and vehicular movement;
- Noise pollution due to various noise generating equipment as well as vehicular movement;
- Fresh water depletion owing to increased water demand
- Natural water contamination from discharge of treated sewage
- Water and land contamination from disposal of solid waste
- Increase power demand

To ensure better environment in & around the project site, effective EMP is developed separately for construction and operation phase.

10.1 ENVIRONMENTAL MANAGEMENT STRATEGIES

Strategy for environmental management in construction work should be based on three-pronged approach comprising:

- Pollution prevention
- Pollution control
- Protection of pollution recipients

10.2 ENVIRONMENT MANAGEMENT PLAN DURING CONSTRUCTION PHASE

10.2.1 Topography and Physiographic

During the construction and post construction phase of the Industrial Estates, no significant impact is anticipated on local or regional topography and physiographic, hence exhaustive management plan is not required. It is however proposed to carry out extensive turfing with local species apart from proposed plantations and greens.

10.2.2 Land Use, Land Environment and Ecology Management

The following measures shall be adopted by the project proponent to prevent/ reduce the disturbance from the project.

Vegetation and Top Soil Management

- Remove vegetation cover only from the specific site on which construction will take place
- Plantation as proposed shall be started at the earliest
- The top soil will be stripped from constructional areas and stockpiled for later reuse in landscaping
- Promote use of organic fertilizers
- Construction of erosion prevention troughs, as deemed necessary
- To prevent the erosion of excavated loose soil produced as a result of excavation, site preparation activities and excavation work would be undertaken during dry season after monsoon is over

Construction Debris

- Fuel and oil will be stored in cement lined storage yard and handled carefully to prevent soil contamination through leakage or spillage.
- All metal, paper, plastic wastes, debris and cuttings would be collected from site as soon as particular construction activity is over.
- During construction of flexible pavement, bitumen wastes will be collected (if any) and disposed in environmentally sound manner.
- The number, frequency and area of movement of heavy machinery will also be restricted.
- Recycling of construction wastes into aggregates for use in the project site.
- Used oil from DG sets should be stored in HDPE drums in isolated covered facility and disposed off as per the Hazardous Wastes (Management Handling) Rules, 2003 & Trans-boundary Movement Rules, 2008.
- Wastes from the labor camps will be collected and disposed as per the existing practices in the site.

10.2.3 Air Quality Management

During the construction phase, certain amount of dust shall be generated due to the mobilization of men, machinery and materials. Constructional activitiesonly cause marginal impact on ambient air quality. The main pollutant of concern is dust. Likewise, following mitigation measures will be adopted during this phase to mitigate the impacts on ambient air:

- During excavation and transportation on roads at the plant site, there is a scope for fugitive dust emissions. Height from which excavated materials are dropped shall be controlled to a minimum practical height to limit fugitive dust generation from unloading. Frequent water sprinkling in the vicinity of the construction activity will be done.
- There is likelihood of fugitive dust from the construction activity and material handling from the truck movement in the premises of the site. The industry will take up tree plantation program around the plant site.
- Installation of batch plant at isolated place and providing cover shed around plants.
- Loading and unloading of cement and other material in covered shed.
- Providing dust suppression system in unloading area (as per requirement).
- Developing avenue and curtain plantation on the internal roads and peripheral plantation around the site to protect the movement of dust and other pollutants.
- Cover scaffolding, hosing down road surfaces and cleaning of vehicles.
- On-road- inspection for black smoke generating machinery.
- Only vehicles having pollution under control certificate will be allowed to ply.
- Use of covering sheets for trucks to prevent dust dispersion from the trucks.
- Reducing the speed of a vehicle to 20 km/hr to reduce emissions on site.
- All material storage will be adequately covered and contained.
- Training to the workers to reduce idling time of machines that otherwise tends to produce hydrocarbons and carbon monoxide.
- Best practices for maintenance and repair of all machineries and equipment.

10.2.4 Noise Level Management

During the construction phase, some noise will be generated through the operation of construction machines, excavators, DG set, etc. Following measures would be taken; into consideration to mitigate the noise at construction site:

- Use of well-maintained equipment fitted with silencers and providing noise shields near the heavy construction operations
- Acoustic enclosures would be provided to DG sets at the construction site
- Provision of personal protective equipment (PPE) such as earmuff and other protection devices shall be provided to laborers working in high noise generating machines
- Servicing of all construction vehicles and machinery to be done regularly and during routine servicing operation, the effectiveness of exhaust silencers will be checked and if found defective replaced
- High noise activities shall be carried out during daytime
- The workers employed in high noise level area will be employed in low noise level areas and vice versa from time to time

10.2.5 Water Resource Management

A drainage system will be constructed on site on temporary basis at an early stage

- Raw water quality will be checked on regular basis for essential parameters as per BIS guideline
- All the wastewater from the construction camps will be treated in the septic tanks
- All the debris from the site shall be isolated from the wastewater and disposed off separately
- No untreated discharge will be made to water courses
- To prevent contamination from accidental spillage of oil, the storage area shall be bonded and will be inspected and cleared at regular interval

The following are also proposed to further reduce the demand of freshwater:

- Curing water will be sprayed on concrete structures and free flow of water not allowed

- After liberal curing on the first day, all concrete structures will be painted with curing chemical to save water to stop daily water curing and hence save water
- Concrete structures will be covered with thick cloth/gunny bags and then water sprayed on them to avoid water rebound and ensure sustained and complete curing
- Ponds will be made using cement and sand mortar to avoid water flowing away from the flat surface while curing
- Water pounding will be done on all sunken slabs. This will also highlight the importance of having an impervious formwork

10.2.6 Environment Management Plan for Land Environment

Construction Phase

The waste generated from construction activity includes construction debris, biomass from land clearing activities, waste from the temporary make shift tents for the labours and hazardous waste. Following section discuss the management of each type of waste. Besides waste generation, management of the topsoil is an important area for which management measures are required.

Construction Debris

Construction debris is bulky and heavy and re-utilization and recycling is an important strategy for management of such wastes. As concrete and masonry constitute the majority of waste generated, recycling of this waste by conversion to aggregate can offer benefits of reduced landfill space and reduced extraction of raw material for new construction activity. This is particularly applicable to the project site as the construction is to be completed in a phased manner.

Mixed debris with high gypsum, plaster, shall not be used as fill, as they are highly susceptible to contamination, and will be sent to designate solid waste landfill site.

Metal scrap from structural steel, piping, concrete reinforcement and sheet metal work shall be removed from the site by construction contractors. A significant portion of wood scrap will be reused on site. Recyclable wastes such as plastics, glass fiber insulation, roofing etc. shall be sold to recyclers.

Hazardous waste

Construction sites are sources of many toxic substances such as paints, solvents, wood preservatives, pesticides, adhesives and sealants. Hazardous wastes generated during construction phase shall be stored in sealed containers and disposed of as per the Hazardous Wastes Management and Handling Act, Amendment Rules (MoEF&CC, 2003).

Some management practices to be developed are:

- Herbicides and pesticides will not be over applied (small-scale applications) and not applied prior to rain.
- Paintbrushes and equipment for water and oil based paints shall be cleaned within a contained area and will not be allowed to contaminate site soils, water courses or drainage systems.
- Provision of adequate hazardous waste storage facilities. Hazardous waste collection containers will be located as per safety norms and designated hazardous waste storage areas will be away from storm drains or watercourses.
- Segregation of potentially hazardous waste from non-hazardous construction site debris.
- Well labelled all hazardous waste containers with the waste being stored and the date of generation.
- Instruct employees and subcontractors in identification of hazardous and solid wastes.

Even with careful management, some of these substances are released into air, soil and water and many are hazardous to workers. Hence, it is best to avoid their use as much as possible by using low-toxicity substitutes and low VOC (volatile organic compound) materials.

Waste from Temporary Makes Shift Tents for Labours

Wastes generated from temporary make shift labour tents will mainly comprise of household domestic waste, which will be managed by the contractor of the site. The wastewater generated will be channelized to the septic tank.

Top Soil Management

To minimize disruption of soil and for conservation of top soil, the contractor shall keep the top soil cover separately and stockpile it. After the construction activity is over, top soil will be

utilized for landscaping activity. Other measures, which would be followed to prevent soil erosion and contamination include:

- Maximize use of organic fertilizer for landscaping and green belt development
- To prevent soil contamination by oil/grease, leak proof containers will be used for storage and transportation of oil/grease and wash off from the oil/grease handling area shall be drained through impervious drains and treated appropriately before disposal
- Removal of as little vegetation as possible during the development and revegetationof bare areas after the project
- Working in a small area at a point of time (phase wise construction)
- Construction of erosion prevention troughs/ berms

OPERATIONAL PHASE

The philosophy of solid waste management at the project site will be to encourage the four R's of waste i.e. **R**eduction, **R**euse, **R**ecycling and **R**ecovery (materials & energy). Regular public awareness meetings will be conducted to involve the staff, and residents for the proper segregation and storage techniques.

The Environmental Management Plan for the solid waste focuses on three major components during the life cycle of the waste management system i.e. collection and transportation, treatment and disposal.

Industrial Waste Management

Solid waste generated from project site will be collected and segregated into decomposable, recyclable and inert wastes. Decomposable wastes will be vermicomposted for use as manure. The recyclable wastes will be sold to authorized recyclers while, inert wastes will be disposed at the landfill sites. Industries will manage their wastes within their premises. Waste bins will also be placed at strategic locations such as inter section of internal roads, parks, common places, etc. To minimize littering and odors, wastes will be stored in well-designed containers/ bins that will be located at strategic locations to minimize disturbance in traffic flow. Care will be taken such that the collection vehicles are well maintained and generate minimum noise and emissions. During transportation of waste, it will be covered to avoid littering.

It is also proposed to have a managing unit with representation from all the units of the IE which can periodically assess the by-products or wastes from the individual units and assessthe possibility and feasibility of use of these wastes by the other units within the IE. This is aimed at reducing the waste generation from the IE as well as cost saving.

Hazardous Waste Management

All hazardous wastes shall be handled as per the norms of the Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and Amendments 2009 by the individual units after obtaining due consent from the SPCB. The nearest TSDF to the IE.Temporary storage of hazardous wastes will be in cemented areas in HDPE bags and shall be the responsibility of the industrial units. The wastes shall be collected from the individual units in accordance to the manifest system and disposed in the TSDF.

Bio-medical Waste Management

The bio-medical wastes shall be handled and disposed as per the Biomedical wastes (Management and Handling) Rules, 1998 and amendment, 2003. All biomedical wastes shall be disposed within 48 hours through a CPCB approved biomedical waste handling agency. Biomedical wastes cover a wide range of infected wastes from medical facility and require different types of treatments such as incineration, sterilization, disinfection and land disposal as given below:

Table 10.1: Bio Medical Waste Management

Types Of Wastes	Contents	Disposal Method
Anatomical wastes	Human tissues, organs, body parts	Incineration /deep burial (*only when population is less than 5 lakhs*)
Microbiology & Biotechnology waste	Wastes from lab cultures, stocks, micro-organisms, vaccines, cell cultures and infectious agents from research. wastes from production of biological, toxins, related dishes and devices	local autoclaving/micro-waving/incineration

Waste sharps	needles, syringes, scalpels, blade, glass, etc. that may cause puncture and cuts (used and unused)	disinfection (chemical treatment /autoclaving/ microwaving and mutilation/ shredding)
Discarded medicines	Out-dated, contaminated and discarded medicines	Incineration, drugs disposal in SLF
Soiled waste	Items contaminated with blood, and body fluids e.g.: cotton, dressings, soiled plaster casts, lines, bedding	Incineration / autoclaving/ microwaving
Solid waste	Tubings, cathéters, intravenous sets etc.	Disinfection (chem treatment)/ auto claving/microwaving and mutilation/ shredding
Liquid wastes	Laboratory and washing, cleaning, housekeeping and disinfecting activities	Disinfection (chemical treatment) discharge to drains
Chemical waste (liquid)	Chemicals used in production of biological, for disinfection and as insecticides	Chemical treatment, discharge to drains
Chemical waste (solid)	Chemicals used in production of biological, for disinfection and as insecticides	Secured landfill

The bio medical wastes shall not be mixed with any other kind of wastes and storage will be in colour coded containers such as:

Yellow containers:	Anatomical wastes, microbiological and biotechnological wastes, items contaminated with blood etc.
Red containers:	Microbio/ biotechnological wastes, items contaminated with blood etc., tubings, catheters, intravenous sets.
Blue/white puncture proof:	waste sharps, tubings, catheters, intravenous sets
Black containers:	discarded/ expired medicines, cytotoxic drugs, incineration ash, chemical wastes (solid)

For internal transportation, wheeled trolleys used only for bio-medical wastes shall only be used. Bio-hazard symbol shall be painted on the trolleys. The workers handling such

wastes shall be provided with all protective personal equipmentviz: head cap, face mask, apron, safety shoes, hand gloves.

RadioactiveWastes

For radioactive waste disposal, AERB/BARC guidelines will be followed. Every user will establish andmaintain an inventory of sealed sources in their possession.The inventory will include the following information:

- Nature of each source, i.e. radionuclide, chemical form, physical form (e.g. tube, plaque, wire, with type ofencapsulating material and approximate external dimensions), activity on a specified date.
- Whether the source is "free-standing" or permanently housed in an instrument or equipment. In the latter case: nature, manufacturer, model and serial number of the equipment.
- Location of each source, i.e. the number of the room in which a freestanding source is (a) stored and (b) normally used, if different from (a), and/or the normal location of any equipment housing a sealed source.
- Details, including date of the disposal or transfer of any source.

The use of unsealed radioisotopes regularly gives rise to radioactive waste, which has to be disposed of in a responsible and safe manner. The waste may include residual amounts of the original radionuclide, disposable containers (vials, pipette tips, etc.), partially decayed or surplus sealed sources, contaminated solids and radioactive animals.The disposal procedures are based on the following principles:

- Minimizing local accumulation of large quantities of waste
- Using immediate local disposal of waste where appropriate, i.e., safe and legal
- Using external disposal of waste unsuitable for local disposal
- Safeguarding of both the local (laboratory) and the external environments
- Reduction of exposure to personnel involved in waste management (ALARA) principle
- Use of procedures that can be followed simply and routinely involved in waste
- Protecting non-labpersonnel (e.g. cleaners), from handling radioactive waste

The waste management program at the hospitalwill provide service for collection and disposal of radioactive waste. The laboratories will be provided with different types of containers. The users will complete identification tags, attached to each container. In addition, users will segregate radioactive wastes in separate containers, according to two categoriesviz: solid and liquid wastes.

Dose Rate at Surface of Waste Container: An identification tag will be there on each container according to the guidelines provided by the AERB/BARC. The user is legally charged with the observance of the above procedures, since inadequate or false labelling of radioactive waste could lead to unnecessary exposure of personnel involved in waste management or members of the public.

Decay of Radioactive Wastes: As an effort to reduce the costs of radioactive waste, radioisotopes must be decayed locally. The proper containers (i.e. cardboard box or plastic jug) and identification tags shall be used. However, it is very important that the containers be properly identified and no other radioisotope be mixed with them. Basically, there shall be one waste container for each decay able radioisotope.

10.2.7 Traffic Movement Management

- Adequate parking will be provided during construction phase to ensure that all heavy vehicles visiting the sites are provided parking space within the site
- Movement of the vehicle will also be scheduled such that the peak hours are avoided
- In operation phase entry and exit will be from separate gates to minimize the disturbance to the approach road
- Adequate parking is proposed to ensure there is no parking along the road
- Traffic rotary is designed for diverting the traffic of the area
- A well planned road network is proposed within the industrial estate premises.60m wide road will be provided.

10.2.8 Aesthetic Management

- The excavated material dump will not be permitted to become a major visual feature of the local landscape. The height of the dump will not be exceeding the mature tree top level in the area.

10.2.9 Construction Workers Health and Safety Plan

- During construction temporary sheds, mobile toilets, potable water will be provided to labourers to maintain hygiene at site.
- First aid facilities will be provided in the proximity of the construction site and ambulance facilities will be maintained for quick hospital service.
- Facemasks will be provided for use to the workers when paint is applied in the form of spray.
- All machines will be regularly inspected and maintained as per the provision of standard.

10.2.10 Employee Benefits

- The project proponent will provide safe and hygienic working conditions for the workers both during construction and operational phase of the project.
- Drinking water and sanitary facilities will be provided during construction phase.
- First aid facilities will be maintained at readily accessible place where necessary appliances including sterilized cotton, wool, etc. shall be available.
- Project authorities will provide necessary security to work force in coordination with state authorities. It is proposed to create environment awareness amongst the staff and occupants through posters, distribution of pamphlets, notices etc. in the operation phase of the project.
- Routine inspection, pep-talks, housing keeping and maintenance of the site would be carried out.
- Proper qualified manpower shall be hired by maintenance agency for handling emergency situations.

10.2.11 Air Quality Management

Impact on the air quality during operation phase will be due to the operation of DG sets, vehicular movement and running of machinery. The following measures will be adopted to minimize / attenuate the adverse impacts of the project on local air quality.

- Developments of green belt with specific species that can attenuate dust as well as the gaseous pollutants are proposed to be planted.

- Pollution control devices such as bag filter, cyclone separator, ESP, etc. will be installed in the industry coming in Industrial Estate in accordance with the SPCB.

  Industries will be directed to follow the following requirements:

  - All DG sets shall have insulated and height as per CPCB norms.
  - All industries will follow the MoEF&CC guideline and CPCB norms for the commitment of pollution reduction.
  - All industries shall monitor indoor air quality and ambient air quality periodically by following MoEF&CC guidelines.
  - Handy CO monitor will be installed in work place of each industry.
  - Proper ventilation system installed at the work place to reduce exposure to pollutants.
  - Regular monitoring of transportation vehicle exhausts.

10.2.12 Noise Level Management

During operation phase noise will be generated from DG sets, machinery, equipment operation and traffic. Proposed measures are to attenuate the noise level generated due to the Industrial estateare:

- All the D.G. sets will be provided with acoustic enclosures ensuring 25 dB(A) insertion loss or for meeting the ambient noise standards whichever is higher as per CPCB norms.
- All noise generating sources in the industrial area will be equipped with appropriate noise control measures. Sound levels will be consistent with local government regulations.Ambient noise levels will be periodically monitored to determine compliance with the norms.
- The machine vibration can be reduced by use of rubberpads, dampers.
- Heavy machinery can be installed in plate forms, which are segregated from main building by sand wall.
- The workers employed in high noise level area will be engaged in low noise level areas and vice versa from time to time. Automation of equipment and machinery, wherever possible, should be done to avoid continuous exposure of workers to noise.

- At work places, where automation of machinery is not possible or feasible, the workers exposed to noise will be provided with protective devices. Special acoustic enclosures will be provided for individual noise generating equipment, wherever possible.
- Sound barriers are usually effective along routes having fast traffic. The reduction innoise level increases with height of barrier.Noise barrier in form of trees are recommended to be grown around the vicinity of the estate. Trees having thick and fleshy leaves with flexible petioles having capacity to withstand vibration will be planted. Heavier branches and trunk of the trees will deflect or refract the sound waves.
- Squeaks and squeals will be minimized by regular maintenance and lubrication of equipment.

By these measures, it is anticipated that noise levels in the vicinity would be maintained below the regulatory level.

10.2.13 Water Resource Management

Fresh Water Management

It is proposed to conserve water resources through the minimized water consumption and reuse of treated wastewater to reduce freshwater demand.

Storm Water Drainage

A separate storm water drainage network apart from sewerage system has been proposed in the development area for the collection and safe disposal of storm water during rainfall. The design criteria to be followed for design of Storm Water Drainage network are broadly based on the recommendations as laid down in the CPHEEO Manual of Sewerage and Sewage Treatment, Ministry of Urban Development, Government of India and as per provisions laid down in the relevant I.S. codes and Consultants' past experience in related field. The design norms are essentially the same as suggested for sewerage system.

Surface Water Management

Total water requirement for the proposed project will be 92.66 MLD which will be met by taking fresh water 58 MLD from WYC and rest from treated water. Water will be taken from the Western Yamuna Canal. The raw water collected in the tank from the canal is transferred for water purification. To minimize the pressure on surface water demand, recirculation of

treated effluent from CETP to the industrial estates is proposed. The recycled water will meet the demands of horticulture, air conditioning, cooling towers, washing processing and flushing of toilets.

The design of Recycled Water Network will depend upon the location of CETP as treated water from CETP will be pumped directly to the individual plots and building to meet the flushing and horticulture demand. The Recycled water network is designed by proposing separate set of pumps for the residential and Industrial area. Separate pumping mains are provided for residential and Industrial recycled distribution system. The requirement of quantity of recycled water for the project site is given in Table.

Table34:Recycled Water Requirement

Sr.No.	Description	Recycled Water Requirement (in MLD)
1	Total Domestic Requirement	30.90
2	Landscape Demand	10.0
3	HVAC Water Demand	10.0
	Total	**50.90 MLD**

Wastewater Management

Wastewater will be managed by sewerage network up to the site of CETP and to utilize the treated effluent fully for Flushing, Horticulture and HVAC Cooling.

Common Effluent Treatment Plant

To treat the Industrial effluent a common effluent treatment plant is proposed to be constructed on the acquired piece of land for this purpose. Therefore construction of CETP of 64 MLD is proposed for the Industrial Estate, IMT Kharkhoda, Haryana.

Biological Environment

During the development phase, greenbelt should be developed in maximum possible area. 30m wide green belt will be provided around the lease area. Based on the regional background, soil quality, rainfall, temperature greenbelt has to be developed. Greenbelt with varieties of species is preferred to maintain species diversity, rational utilization of nutrients and for maintain health of the trees. The selected plant species should be fast growing, evergreen and thick

canopy as well as resistant to pollutant discharged. The extensive green areas in the project site improve the aesthetics of the area which will also help in reduction of air pollution, noise pollution and provide suitable habitat for local birds and animal species.

As well as Individual Industry will develop its own green belt around the periphery of the site.

Plantation Design

To enhance the environmental hygiene of the area, it has been proposed to provide tree shrub on both side of the road. The details are given below:

SHRUBS

- *Bougainvillea*
- *Hameliapattens*
- *Ticoma*
- *Tabernaemontanaheyneana*
- *Jatropa*
- *Cassia biflora*

TREES

- *Ashokapendula*
- *Cassia fistula*
- *Delonixregia*
- *Jacrandamimosifolia*
- *Terminaliaarujuna*
- *Cassia semia*
- *Syzygiumjambola*
- *Eucalyptus*
- *Kajliapinnata*

Demographic and Socio-Economic Environment

The project envisages addressing the wider goal of environmental protection through a social investment strategy for the communities around the project. The project seeks to increase the

benefits to the local population and contribute towards meeting community's expectation of benefits from the project.

Some of the concerns raised by local people relate directly to the project. Concerns and aspirations not directly related to the project were solicited so as to identify areas that could be addressed through socially responsible initiatives and interventions. These are:

a) Demand for employment opportunities
b) Infrastructure development

The proposed strategy envisages addressing the wider goal of sharing benefits with the local community. To achieve the same following activities are proposed:

Income Generation Opportunity for Local Community

Local people will be given preference on employment opportunities although on merit. Tender specifications for post construction services will include favourable employment opportunities towards the local population. The main principles of employment are outlined below:

- Employment strategy will provide for preferential employment during operation phase.
- General recruitment procedures will be transparent, public and open to all.
- Recruitment procedures will be publicized at locally prominent locations in advance.
- There will be no discrimination on basis of gender, caste or other factors.
- Contractors will be required to abide by the Indian labour laws regarding standards on employee working conditions, minimum wages for workers, safety and welfare measures. Following the appointment of the contractor, information on employment will be available to the local community at the Panchayat office or other prominent places like the school, frequently visited spots in the village etc. Information on the following aspects will be provided- scale and duration of employment, type of available work and demand projection.

Improved Working Conditions

The project will provide safe working conditions for the labourer and other workers employed at the facility during construction and operation phase. Conditions of employment will address issues like minimum wages and medical care for the workers.

Vehicle Parking and Traffic Management

Adequate parking will be provided during construction phase to ensure that all heavy vehicles visiting the sites are provided parking space within the site.

Movement of the vehicle will also be scheduled such that the peak hours are avoided.

In operation phase entry and exit will be from separate gates to minimize the disturbance to the approach road.

Adequate parking is proposed to ensure there is no parking along the road.

Traffic rotary is designed for diverting the traffic of the area.

A well planned road network is proposed within the industrial estate premises. 60m wide road will be provided.

10.2.14 Energy Conservation

The Project will be designed in such a way that natural light and air will be enhanced in the industries. Industries and other facilities at the Industrial Area will be energy efficient through use of low energy consuming fixtures. Energy conservation will be achieved through various means as given below.

Site Plan and Building Design

- Maximum utilization of solar light will be done
- Public areas will be cooled by natural ventilation as opposed to air-conditioning
- The green areas will be spaced, so that a significant reduction in the temperature can take place

Energy Saving

- Energy efficient lamps will be provided within the complex.
- Constant monitoring of energy consumption and defining targets for energy conservation

Awareness

- Promoting awareness on energy conservation
- Training staff on methods of energy conservation and to be vigilant to such opportunities

10.2.15 Management and Maintenance System

Management and maintenance system is an important issue for the Industrial Area. During the construction phase HSIIDC will take care for the implementation of environmental management plan for the IMT project. They will review the effectiveness of implemented mitigation measures adopted by contractors and sub-contractors from time to time. The houses will be provided with water sprinklers and fire alarms and there will be provision of adequate number of fire extinguishers. Back up service will be provided for all emergency equipmentand machineries. Post construction, management and maintenance of the internal services laid in Industrial Estate will be done by HSIIDC and by the individual Industry Owners.

a. **Reporting** For effective implementation of any system/ plan, a systematic reporting system is essential. An Environmental Management Cell shall be set up for implementation of the proposed Management Plan. Reporting of the results of all the management and monitoring plan shall be submitted to the designated Project Head. The reports shall be reviewed and parameters exceeding their limits should be identified and the reason for the same investigated. Any requisite mitigation plan shall be taken up accordingly.

The Environment Management Cell will be a permanent organizational set up charged with the task of ensuring its effective implementation of mitigation measures and conduct environmental monitoring. The major duties and responsibilities of Environmental Management Cell shall be as given below:

- To implement the environmental management plan
- To ensure regulatory compliance with all relevant rules and regulations
- To ensure regular operation and maintenance of pollution control devices
- To minimize environmental impact of operations by strict adherence to the EMP
- To initiate environmental monitoring as per approved schedule

b. **Review and interpretation** of monitored results and corrective measures in case monitored results are above the specified limit.

c. **Maintain documentation** of good environmental practices and applicable environmental laws for a ready reference

d. Maintain environmental related records

e. C**oordination** with regulatory agencies, external consultants, monitoring laboratories

f. **Maintenance of log of public complaints and the action taken**.

Awareness and Training

Training and human resource development is an important link to achieve sustainable operation of the facility and environment management. For successful functioning of the project, relevant EMP will be communicated to residents and contractors.

Occupants must be made aware of the importance of waste segregation and disposal, water and energy conservation. The awareness can be provided by periodic Integrated Society meetings. They will be informed of their duties.

Environmental Audits and Corrective Action Plans

To assess whether the implemented EMP is adequate, periodic environmental audits will be conducted by the project proponent's environmental division. These audits will be followed by Correction Action Plan (CAP) to correct various issues identified during the audits.

10.2.16 Resettlement & Rehabilitation

The Government has announced its comprehensively revised R&R policy for the land owners, whose land is acquired for infrastructure development. It will be ensured that the obligations and commitments laid down under the R&R policy of the state govt. are compiled with by the concerned agencies. The detailed R&R plan is attached as **Annexure-III.**

10.2.17 Environment Friendly Technologies

The state govt. firmly believes that industrial development and associated growth should be based on the principles of sustainable development. The state is thus committed towards its responsibility in promoting a clean and green environment. The state government has taken a number of initiatives in this direction. The government aims to encourage environment management by rational use of resources, environment audit and taking measures to reduce

pollution load, waste recovery, recycling and waste recharge besides focusing on adoption of clean process technology.

It will provide greater opportunity to the people willing to take the benefit of green business like carbon credit earning. The state will guide the local entrepreneurs to adopt the relevant technology to earn carbon credits.

CHAPTER 11

SUMMARY AND CONCLUSION

11 PROJECT SUMMARY

Industrial area is proposed to be developed over an area of 3217.19 acres in Kharkhoda, Haryana by Haryana State Industrial and Infrastructure Development Corporation.

Initially, the net site area was 3271.26 Acre (1323.86 Ha) for which ToR was issued by MoEF&CC vide letter no. 21-237/2017-IA.III dated 23rd August, 2017.

Out of the 3271.26 acre, 52.15 acre related to other Govt. Dept./agencies could not be takenover. Therefore, the DEIA/EMP was prepared on the basis of reduced area i.e. 3219.11 Acreon which Public Hearing was held.

Further, 1.92 Acre land was released in accordance with High Court Order vide notificationno.2/1/4-1-IB-II-2010 dated 03.06.2019 issued by Addl. Chief Secretary to Government,Haryana, Industries & Commerce Departments. Therefore, the net site area further reduced to3217.19 Acre (1301.95 Ha) on the basis of which FEIA/EMP report has been prepared, which is well within the area for which ToR was issued.

The final area statement/land use of project, in view of all above amendments is being submitted in the FEIA/EMP report.

The distribution of the area is as follows:

S. No.	Area Statement	In Acre	In Hectare	In Sqm	%age
1	Total Site Area	3306.32	1338.02	13380202.32	
(A)	Area released	89.13	36.06	360696.31	2.69
(B)	Balance Land	3217.19	1301.95	13019506.02	97.31
(a)	Raw Land allotted to Gram Panchayat Village Rampur for BPL Families	10.0	4.046	40468.56	0.31
(b)	Area Reserved for Industrial Plots	1243.28	503.13	5031375.65	38.64
(c)	Area Reserved for Commercial Use	171.51	69.407	694076.34	5.33

(d)	Area Reserved for Public Utilities/Buildings	168.47	68.18	681773.90	5.24
(e)	Area Reserved for Institutional Use	147.61	59.73	597356.47	4.54
(f)	Area Reserved for R&R Plots	109.29	44.22	442280.9	3.4
(g)	Area Reserved for R&R Pockets & Land Pooling Plots/Housing	163.58	66.198	661984.79	5.08
(h)	Area Reserved for Green Belts, Open Spaces, Roads, Orbital Rail Corridor & Parking etc.	1203.45	487.02	4870189.36	37.41

The type of Industries coming in the industrial estate will be as follows:

S. No.	**Industries Proposed at ToR Stage**	**The type of industries, on the basis of which ToR was issued for project, has been slightly modified. We are now, proposing lesser polluting industries.**
1.	• Food & Beverage, • Metal Products, • General Metal Textiles, • Chemical & Chemical Products, Automobile, • Rubber & Plastics Products, • Non-Metallic Materials, • Machinery & Equipment,	• CETP (Category B as per EIA Notification, 2006), • Food Industry, • Printing & Packaging Industries, • Textile and Garments Industry • Automobiles manufacturing (Integrated facilities), • Plastic Industry • Electrical & Electronics Industry • IT & ITES, • Footwear Industry • General Engineering Industry • Commercial, Group Housing for Industrial labours/ workers, Institutional & Hospital • Building (Category B as per EIA Notification, 2006)

Project site is well connected through the KMP expressway in north, SH-18 in the east direction. The nearest airport to the site is Indira Gandhi International Airport which is 35 km (SE).Nearest Railway Station is Narela Railway Station which is 9.0 km (East) away from the project site.

Salient features of the project are:

Table 11.1: Salient Features of the Project

S. No.	Facility	Value
1.	Power Supply	The power supply shall be supplied by State Electricity Board. The connected load requirement will be approx.500 MW.
2.	D.G. Set	For power back up, total number of 3 DG sets (2 x 630kVA) for CETP and (1x630 kVA) of total capacity of 1890 kVA will be provided.
3.	Fresh Water Supply	58 MLD Source: Western Yamuna Canal
4.	CETP Capacity	64 MLD capacity
5.	Manpower requirement	500-600 persons
6.	Project cost	4000 Crores

The project will be implemented over a span of 5-6 years, the commencement of construction.

11.1 ENVIRONMENTAL IMPACT OF THE STUDY AREA

The baseline environmental status was assessed based on primary and secondary data collected either through in-site field observation or obtained from agencies such as Irrigation Department, India Meteorological Department (IMD), Central Ground Water Board, Geological Survey of India, State Ground Water Department, State Pollution Control Board, Census of India and Local Forest Department, Non-Governmental Agencies. The baseline status established from analysis of secondary and primary data and predicted impacts are discussed below. The proposed mitigation measures are also provided along with.

11.1.1 Land Environment

The land use pattern of the study area is mainly residential, agricultural and open & degraded vegetation.When awarded to the project proponent, the land was an agricultural land. Compensation has been given to the farmers for acquiring their lands.

The construction phase of any project poses the threat of soil contamination and soil erosion, mainly during the construction phase. Inadequate solid waste management & waste from industries may also cause soil contamination during operation phase. During construction phase, excavation related work will be avoided during the monsoons and site clearing will be

carried out for specific areas being developed. All wastes from site will be regularly removed and disposed/sold.

11.1.2 Water Environment

The water requirement during construction phase will be met by private water tanker. During operation phase water will be taken from the surface water.

A combination of efficient water management to reduce water consumption, reuse of treated wastewater will be adopted. A Common Effluent Treatment Plant of total capacity 64 MLD is also proposed for treating of wastewater.

11.1.3 Air Environment

During construction phase, the major air pollutant of prime concern is PM as impacts of other emissions such as SO_2, NO_2, and CO will not be significant because the nature of sources is such that the emission distribution is spatial as well as temporal. Industrial emissions will also take place during operation phase. The levels of PM, NO_2, SO_2 and CO at all the ten locations were within the standards prescribed by NAAQS at all the five locations. Thus dust emissions from construction activities shall require comprehensive mitigation measures and best construction practices.

Adequate stack heights will be proposed for D.G. Sets & for every individual industry above the ground to provide for sufficient dispersion of pollutants. Water sprinklers will be used to suppress dust during construction. During the operation phase, green belt and green area development is proposed to restrict and absorb air pollutants.

11.1.4 Noise Environment

Noise levels were observed at five locations within the study area. Levels of background noise monitored in exceed the limits at 55 dB (A) and 45dB (A) for daytime and night time respectively.

The noise emitted from heavy-duty construction equipment during construction period being high shall require occupational preventive measures and temporary noise barriers for noise attenuation. The construction period being about 5 to 6 year duration, will require significant mitigation measures such as restricted loud noise activities to daytime, provision of PPEs and acoustic enclosures for D.G. Set.

In the operation phase, noise pollution will be checked through acoustic enclosures of DG Sets and green belt plantation. Noise will also be generated from different industries which are going to be set up in industrial area. It will be the responsibility of each industrial owner to provide suitable noise control measures (noise control barriers/acoustic enclosures) within the industrial area.

11.1.5 Biological Environment

There is no protected area, reserved forest or sanctuary in the study area. There is also no tree cutting involved in the project. However, the project will have green area. The proposed landscaping will include native species that will attract local birds and insects, reduce pollution and improve aesthetics and micro-climate of the region.

11.1.6 Socio-Economic Environment

The population of the Sonepat is around approx. 14,80,080. The study area has access to clean drinking water and adequate transportation facilities.

The project will add to the infrastructure facilities will also have a positive bearing on the local economy by increased demand of daily needs items, increased business opportunities in meeting fancy and recreational means for the population of the project. It is also proposed to engage local people after imparting adequate training and local companies for maintenance of the Industrial Estate during operation phase.

11.1.7 Energy Efficiency

The new city contains numerous buildings with high requirements for power supply reliability such as international hospitals, international schools, high-end hotels, large-scale amusement centers. Therefore, for the reliable power supply of Industrial Model Township, Kharkhoda, two circuit of 220kV power supply line from two different 400KV substation of Indian State Grid shall be adopted as normal power source, Furthermore, another 132kV line shall be as an accident backup power supply. And the technical measures of gridding network, multi-link power supply and distribution automation are utilized to meet the requirements of power supply reliability.

Resource Conservation: A concerted effort is made towards resource conservation by way of using recycled building materials, fly-ash bricks, reduced water consumption and improving energy efficiency of the building.

Indoor Air Quality: Special attention will be given to maintaining indoor air quality through use of low VOC paints, provision of adequate ventilation, proper storage of chemical and cleaning materials.

Safety: A network of manned security gates, security men, closed circuit TV and intercom facilities are proposed to ensure safety of the occupant. The buildings will also be provided with adequate fire tenders, fire alarms and water sprinklers.

11.2 ENVIRONMENTAL MANAGEMENT PLAN

Adequate environmental management measures will be incorporated during the entire planning, construction and operating stages of the project to minimize any adverse environmental impact and ensure sustainable development of the area.

For the effective and consistent functioning of the campus, an Environmental Management System (EMS) will be established at the site including an Environmental Management cell for implementation of the EMP and monitoring plan, training and awareness, audits and maintenance of records.

Based on the environmental assessment, the associated potential adverse environmental impacts can be mitigated to an acceptable level by adequate implementation of the measures as stated in the EIA and the EMP. Some of the benefits from the project are:

- Use of solar energy for street lighting
- Provision of green walls and green terraces
- Use of fly ash bricks.
- Use of steel manufactured from recycled content
- Provide permeable paving to control surface water runoff
- Meet all requirements for buildings in moderate earthquake prone areas.
- Provision of welfare schemes to workers
- Extending educational and healthcare facilities to the local people

- Commitment to engaging local people and businessmen for maintenance and repair work

Hence, it may be concluded that the project will have significant positive economic and social impact on the local community apart from meeting the housing needs of the occupants, without bearing any significant adverse environmental impacts.

CHAPTER 12

DECLARATION BY EXPERTS

Declaration by Experts contributing to the EIA for Industrial Model Township at Kharkhoda, Sonepat, Haryana

I, hereby, certify that I was a part of the EIA team in the following capacity that developed the above EIA.
EIA coordinator:
Name: Dr. Dhiraj Kumar Singh
Signature and Date:
Period of involvement:**August 2017 to May 2020**
Contact information : 8377904041
Functional area experts:

S. No	Functional areas	Name of the expert/s	Involvement (period and task**)	Signature and date
1	AP*	Dr. Dhiraj Kr. Singh/Ms. Sadhna Singh-Cat. B	Selection of Baseline monitoring locations, interpretation of baseline environment data, Suggestions on Prevention and Control of air pollution and proposed EMP for air environment (August 2017 to May 2020)	
2	WP*	Dr. Dhiraj Kr. Singh/Ms. Sadhna Singh-Cat. B	Selection of Baseline monitoring locations, interpretation of baseline environment data, Suggestions on Prevention and Control of water pollution and proposed EMP for water environment (August 2017 to May 2020)	
3	SHW*	Dr. Dhiraj Kr. Singh	Quantification of solid waste, anticipated impact assessment and mitigation measures (August 2017 to May 2020)	
4	SE*	Mr. B.N Chaudhari	Interpretation and analysis of baseline socio-economic data (August 2017 to May 2020)	
5	EB*	Dr. Dhiraj Kr. Singh	Analysis of primary and secondary data collected through questionnaire & site observation sheet (August 2017 to May 2020)	
6	HG*	Mr. Tapan Majumdar	Proposed the mitigation measures (August 2017 to May 2020)	
7	GEO*	Mr. Tapan Majumdar	Proposed the mitigation measures (August 2017 to May 2020)	
8	SC*	Mr. N.P.S Varde	Interpretation of data, Proposed mitigation measures, management plan (August 2017 to May 2020)	
9	AQ*	Ms. Mudita Singh Tomar	Impact prediction, Quantification of incremental air pollution using ISCST-3 model, Proposed mitigation measures for air	

			pollution control (August 2017 to May 2020)	
10	NV*	Mr. Sanjay Shevkar	Interpretation of baseline environment data, Proposed mitigation measures/ management plan (August 2017 to May 2020)	
11	LU*	Mr. N.P.S Varde/Mr. B.N Chaudhari	Interpretation and analysis of landuse through overlapping of satellite images and SoI toposheet (August 2017 to May 2020)	
12	RH*	Mr. S. K.Bandopadhyay	Anticipated risks, hazards and proposed the management plan for same (August 2017 to May 2020)	

*One TM against each FAE may be shown
**Please attach additional sheet if required

Declaration by the Head of the accredited consultant organization/ authorized person

I, **Dr. Dhiraj Kumar Singh** hereby, confirm that the above mentioned experts prepared the EIA for Industrial Model Township at Kharkhoda, Sonepat, Haryana and also confirm that EIA Coordinator (EC) has gone through the report, and the consultant organization shall be fully accountable for any misleading information.

It is certified that no unethical practices/ plagiarism involved in carrying out the work and external data / text has not been used without proper acknowledgement while preparing this EIA report.

Signature:

Name: Dr. Dhiraj Kumar Singh

Designation: Managing Director

Name of the EIA consultant organization: **Grass Roots Research & Creation India (P) Ltd., Noida**

NABET Certificate No.& Issue : **NABET/EIA/1619/RA0064 dated 02nd August 2017 and valid till 18th August 2020. (NABET Certificate and Extension letter is enclosed).**

Quality Council of India

National Accreditation Board for Education & Training

CERTIFICATE OF ACCREDITATION

Grass Roots Research and Creation India (P) Ltd.

F-375, Sector -63, Noida - 201301

are accredited as Category - A organization under the QCI-NABET Scheme for Accreditation of EIA Consultant Organizations: Version 3 for preparing EIA/EMP reports in the following sectors:

Sl. No.	Sector Description	Sector (as per)		Cat.
		NABET	MoEFCC	
1	Mining of minerals including opencast/ underground mining	1	1 (a) (i)	A
2	Offshore and onshore oil and gas exploration, development & production	2	1 (b)	A
3	River Valley projects	3	1 (c)	A
4	Thermal power plants	4	1 (d)	A
5	Coal washeries	6	2 (a)	A
6	Mineral beneficiation including pelletisation	7	2 (b)	A
7	Metallurgical industries (ferrous & non-ferrous)	8	3 (a)	A
8	Cement plants	9	3 (b)	A
9	Oil & gas transportation pipeline (crude and refinery/ petrochemical products), passing through national parks/ sanctuaries/coral reefs /ecologically sensitive Areas including LNG terminal	27	6 (a)	A
10	Industrial estates/ parks/ complexes/ Areas, export processing zones(EPZs), Special economic zones (SEZs), Biotech parks, Leather complexes	31	7 (c)	A
11	Common Municipal Solid Waste Management Facility (CMSWMF)	37	7 (i)	B
12	Building and construction projects	38	8 (a)	B
13	Townships and Area development projects	39	8 (b)	B

Note: Name of approved EIA Coordinators and Functional Area Experts are mentioned in RA AC minutes dated July 07, 2017 posted on QCI-NABET website.

The Accreditation shall remain in force subject to continued compliance to the terms and conditions mentioned in NABET's letter of accreditation bearing no. QCI/NABET/ENV/ACO/17/0365 dated Aug. 02, 2017.The accreditation needs to be renewed before the expiry date by Grass Roots Research and Creation India (P) Ltd., Noida, following due process of assessment.

Sr. Director |NABET
Dated: Aug. 02, 2017

Certificate No.
NABET/ EIA/1619/ RA 0064

Valid till Date
04.12.2019

For the updated List of Accredited Consultants with approved sectors please refer QCI-NABET website.

National Accreditation Board
for Education and Training
(Member - International Accreditation Forum & Pacific Accreditation Cooperation)

QCI/NABET/ENV/ACO/20/1328 May 19, 2020

To
Grass Roots Research & Creation India (P) Ltd.
F: 374 & 375, Sec-63, Noida-201301
Uttar Pradesh
(Kind Attention- Dr. Dhiraj Kr. Singh)

Sub.: Extension of Validity of Accreditation till 18th August, 2020 - regarding

Dear Sir/Madam

In view of the outbreak of Corona Virus (COVID-19) and subsequent lockdown declared for its control vide order dated 24th March 2020, issued by Ministry of Home Affairs, Govt. of India, NABET hereby extends the Validity of your Accreditation till 18th August 2020.

As soon as, NABET office opens/resumes its operation necessary action regarding issuance of certificate/extension of validity letters / other may be initiated, therefore, ACO to ensure their complete application with NABET, if applicable.

Meanwhile, you may enclose this with your EIA reports along with the certificate/validity letter. The EAC/SEIAA/SEAC/Other are hereby requested to consider the same as a valid document for the preparation of EIA/EMP report.

With best regards.

Sd/-
(A K Jha)
Sr. Director, NABET

Institute of Town Planners India, 6th Floor, 4-A, Ring Road, I.P Estate, New Delhi-1 10 002, India
Tel. • +9 11 -233 23 4 1 6, 417, 18, 419, 420, 421 ,423 E-mail : ceo.nabet@qcin.org Website : www.qcin.org

As per the recently published QCI/ NABET 'List of Accredited Consultant Organizations/Rev. 87, May 08, 2020, under LIST 'A', Category 'A' Sl. No. 87.

For reference, a snapshot of the list where GRC India's name is listed is pasted below:

Scheme for Accreditation of EIA Consultant Organizations

S. No.	Consultant Organization	Scope of Accreditation			
		As per NABET Scheme			Project or Activity as per Schedule of MoEFCC Notification dated September 14, 2006 and subsequent Amendments
		Sector Number	Name of Sector	Category	
			dredging		
		36	Common effluent treatment plants (CETPs)	B	7 (h)
		38	Building and construction projects	B	8 (a)
		39	Townships and Area development projects	B	8 (b)
87	**Grass Roots Research and Creation India (P) Ltd.** **Address:** F- 375, Sec – 63, Noida – 201301 **Email:** md@grc-india.com, info@grc-india.com **Tel.:** 0120 – 4044630, 4044660, 09811554031, 09818184005 *Conditions apply*	1	Mining of minerals including open cast/ underground mining	A	1 (a) (i)
		2	Offshore and onshore oil and gas exploration, development & production	A	1 (b)
		3	River Valley projects	A	1 (c)
		4	Thermal power plants	A	1 (d)
		6	Coal washeries	A	2 (a)
		7	Mineral beneficiation including pelletisation	A	2 (b)
		8	Metallurgical industries(ferrous and non-ferrous) : both primary & secondary	A	3 (a)
		9	Cement plants	A	3 (b)

List of Accredited Consultant Organizations (Alphabetically) Rev. 87, May 08, 2020 Page 94

Scheme for Accreditation of EIA Consultant Organizations

S. No.	Consultant Organization	Scope of Accreditation			
		As per NABET Scheme			Project or Activity as per Schedule of MoEFCC Notification dated September 14, 2006 and subsequent Amendments
		Sector Number	Name of Sector	Category	
		21	Synthetic organic chemicals industry (dyes & dye intermediates; bulk drugs and intermediates excluding drug formulations; synthetic rubbers; basic organic chemicals, other synthetic organic chemicals and chemical intermediates)	A	5 (f)
		24	Pulp & paper industry excluding manufacturing of paper from wastepaper and manufacture of paper from ready pulp without bleaching	A	5 (i)
		27	Oil & gas transportation pipeline (crude and refinery/ petrochemical products), passing through national parks/ sanctuaries/coral reefs /ecologically sensitive Areas including LNG terminal	A	6 (a)
		31	Industrial estates/ parks/ complexes/ Areas, export processing zones(EPZs), Special economic zones	A	7 (c)

List of Accredited Consultant Organizations (Alphabetically) Rev. 87, May 08, 2020 Page 95

Scheme for Accreditation of EIA Consultant Organizations

S. No.	Consultant Organization	Scope of Accreditation			
		As per NABET Scheme			Project or Activity as per Schedule of MoEFCC Notification dated September 14, 2006 and subsequent Amendments
		Sector Number	Name of Sector	Category	
			(SEZs), Biotech parks, Leather complexes		
		33	Ports, harbours, break waters and dredging	A	7(e)
		34	Highways	A	7 (f)
		37	Common municipal solid waste management facility (CMSWMF)	B	7 (i)
		38	Building and construction projects	B	8 (a)
		39	Townships and Area development projects	B	8 (b)
88	**Gujarat Environment Management Institute** **Address:** 3rd floor, Block No. 13 Dr. Jivraj Mehta Bhavan, Old Sachivalaya, Sector 10B, Gandhinagar, Gujarat 382010 **Email:** paresh.gemi@gmail.com, nitashakhatri1983@gmail.com **Tel.:** 079-23240964	9	Cement plants	B	3 (b)
		18	Petro-chemical complexes (industries based on processing of petroleum fractions & natural gas and/or reforming to aromatics)	A	5 (c)
		21	Synthetic organic chemicals industry (dyes & dye intermediates; bulk drugs and intermediates excluding drug formulations; synthetic rubbers; basic organic chemicals,	A	5 (f)

List of Accredited Consultant Organizations (Alphabetically) Rev. 87, May 08, 2020 Page 96

F.No. 21-237/2017-IA.III

Government of India
Ministry of Environment, Forest and Climate Change
Impact Assessment Division

Indira Paryavaran Bhawan,
Jor Bagh Road, Aliganj
New Delhi - 110 003

Dated: 23 August, 2017

To

The General Manager,
HSIIDC Ltd,
C 13-14, Sector - 6,
Panchkula - 134 019 (Haryana)

Sub: Industrial Model Township at Kharkhoda, Sonepat, Haryana by M/s Haryana State Industrial & Infrastructure Development Corporation Limited – Terms of Reference reg.

Sir,

This has reference to your proposal No IA/HR/NCP/62795/2017 dated 9th June, 2017 submitting the above proposal to this Ministry for seeking Terms of Reference (ToR) as per the provisions of the Environment Impact Assessment (EIA) Notification, 2006 and subsequent amendments under the Environment (Protection) Act, 1986.

2. The proposal for **'Industrial Model Township (IMT)'** at Kharkhoda, Sonepat in the state of Haryana promoted by M/s Haryana State Industrial & Infrastructure Development Corporation Limited (HSIIDC), was considered by the Expert Appraisal Committee (EAC) for Industrial Estate/Area, SEZ and Highways projects, in its meeting held 9th August, 2017 in the Ministry of Environment, Forest and Climate Change, New Delhi.

3. The details of the project, as per the documents submitted by the project proponent, and also as informed during the above said meeting along with EIA Consultant Grass Roots research & Creation India Pvt. Limited, are reported to be as under:

(i) The project involves development of Industrial Model Township, Kharkhoda, Sonepat, Haryana by Haryana State Industrial & Infrastructure Development Corporation Limited (HSIIDC).

(ii) Industrial Model Township (IMT) is located at Tehsil, Kharkhoda, District Sonepat, Haryana and is bounded by the KMP expressway in north, SH-18 in the east, and government purchased land in the south and west directions. The Site is about 18 km from Sonepat City, 35 km from Indira Gandhi International Airport, and 9 km from Narela Railway Station.

(iii) The geographical co-ordinates of project site are28°51'17.74"N, 76°56'42.20"E, 28°48'33.40"N, 76°55'57.16"E, 28°50'3.51"N, 76°58'11.65"E and 28°49'38.39"N, 76°54'42.17"E.

(iv) The proposed IMT will have Industrial zone, commercial and residential area, public utility facilities, parks, etc. There will be provision of adequate power, water supply, roads, sewerage, and effluents disposal system with treatment, storm water disposal and solid waste management to enable enterprises to function in a state of the art environment.

(v) Industries of varying capacity will be setup on industrial plots planned within the Industrial Estate. The type of Industries would be Food & Beverage, Metal Products, General Metal Textiles, Chemical & Chemical Products, Automobile, Rubber & Plastics Products, Non-Metallic Materials, Machinery & Equipment, etc.

(vi) **Land use:** Farmland dominates the landuse in area, covering approx. 1,323.86 ha; villages cover an area of about 34.7 ha; factories cover an area of about 8.6 ha; schools cover an area of about 2.7 ha; river systems cover an area of about 22.2 ha; woods cover an area of about 11.3 ha; roads cover an area of about 6.8 ha. Existing river systems mainly consist of irrigation canals and ponds; the seasonal change in water levels is considerably large. As a farmland ecosystem, the site is mainly covered by cultivated land, with a few bushes on the west side. There are no animals or plants in need of protection.

(vii) **Water requirement**: 94,000 KLD will be sourced from Western Yamuna Canal.

(viii) **Investment/Cost**: Total project cost is anticipated to be INR 4000 Crore that includes the land (INR 1700 Crore) and development cost (INR 2300 Crore).

(ix) **Whether the project is in Critically Polluted area**: No

(x) **If the project involves diversion of forest land, extend of the forest land**: No

(xi) **If the project falls within 10 km of eco- sensitive area, Name of eco- sensitive area and distance from the project site**: There is no eco-sensitive area within the 10 km of project.

(xii)**Rehabilitation involved if any**: 469.97 acre has been reserved for R & R measures. Govt. of Haryana has formulated a policy for rehabilitation and resettlement of land owners – land acquisition oustees which will be followed in this project.

(xiii) **Employment potential**: The direct employment population of each industry is calculated based on the employment density and land area. According to statistics of India's Statistical Authority concerning direct employment and total employment population engaged in relevant industries (Principal Characteristics by Major Industry Group in ASI 2012-13), the proportion of indirect employment of relevant industries can be calculated, and the indirect employment population can be calculated accordingly. Finally, the total employment population is calculated as about 1,00,000 to 1,50,000 persons.

(xiv) **Benefits of the project**: The project will create direct and indirect employment opportunities and boost economic development of the State.

4. The proposal was considered by the EAC in the meeting held on 9th August, 2017 and recommended for grant of ToR and the Ministry of Environment, Forest and Climate Change hereby accords ToR for **'Industrial Model Township'** at Kharkhoda, Sonepat, Haryana promoted by M/s HSIIDC, for preparation of the Environment Impact Assessment Report and Environment Management Plan (EMP) with the specific and general conditions as under:

A. Project Specific Conditions

(i) Detailed traffic study and planning for access to main roads to avoid accidents.

(ii) Permission shall be obtained from competent authority for drawing water from Yamuna Canal.

(iii) The cumulative Environmental Impact Assessment shall be carried out while preparing EIA report.

(iv) Develop ground water rejuvenation plan for the region from competent agency and provide appropriate financial mechanism to implement the same.

B. Genral Conditions

(i) Reasons for selecting the site with details of alternate sites examined/ rejected/selected on merit with comparative statement and reason/basis for selection. The examination should justify site suitability in terms of environmental damage, resources sustainability associated with selected site as compared to rejected sites. The analysis should include parameters considered along with weightage criteria for short-listing selected site.

(ii) Submit the details of the land use break-up for the proposed project. Details of land use around 10 km radius of the project site. Analysis should be made based on latest satellite imagery for land use with raw images. Check on flood plain of any river.

(iii) Submit details of environmentally sensitive places, land acquisition status, rehabilitation of communities/ villages and present status of such activities.

(iv) Examine the impact of proposed project on the nearest settlements.

(v) Examine baseline environmental quality along with projected incremental load due to the project taking into account of the existing developments nearby.

(vi) Environmental data to be considered in relation to the project development would be (a) land, (b) groundwater, (c) surface water, (d) air, (e) bio-diversity, (f) noise and vibrations, (g) socio economic and health.

(vii) Submit a copy of the contour plan with slopes, drainage pattern of the site and surrounding area, and any obstruction of the same by the project.

(viii) Details regarding project boundary passing through any eco- sensitive area and within 10 km from eco-sensitive area.

(ix) Green buffer in the form of green belt to a width of 15 meters should be provided all along the periphery of the industrial area. The individual units should keep 33% of the allotted area as a green area.

(x) Submit the details of the trees to be felled for the project.

(xi) Submit the details of the infrastructure to be developed.

(xii) Submit the present land use and permission required for any conversion such as forest, agriculture etc.

(xiii) Submit details regarding R&R involved in the project

(xiv) Zoning of the area in terms of 'type of industries' coming-up in the industrial area based on the resource requirement along with likely pollutants with quantity from the various industries.

(xv) The project boundary area and study area for which the base line data is generated should be indicated through a suitable map. Justification of the parameters, frequency and locations shall be discussed in the EIA.

(xvi) Submit Legal frame work for the implementation of Environmental Clearance conditions - to be clearly spelt out in the EIA report.

(xvii) Submit Roles and responsibility of the developer etc for compliance of environmental regulations under the provisions of EP Act.

(xviii) Site justification of the identified industry sectors from environmental angle and the details of the studies conducted if any.

(xix) Ground water classification as per the Central Ground Water Authority.

(xx) Submit the source of water, requirement vis-à-vis waste water to be generated along with treatment facilities, use of treated waste water along with water balance chart taking into account all forms of water use and management.

(xxi) Rain water harvesting proposals should be made with due safeguards for ground water quality. Maximize recycling of water and utilization of rain water. Examine and submit details.

(xxii) Examine soil characteristics and depth of ground water table for rainwater harvesting.

(xxiii) Examine details of solid waste generation treatment and its disposal.

(xxiv) Examine and submit details of use of solar energy and alternative source of energy to reduce the fossil energy consumption.

(xxv) In case DG sets are likely to be used during construction and operational phase of the project, emissions from DG sets must be taken into consideration while estimating the impacts on air environment. Examine and submit details.

(xxvi) Examine road/rail connectivity to the project site and impact on the traffic due to the proposed project. Present and future traffic and transport facilities for the region should be analysed with measures for preventing traffic congestion and providing faster trouble free system to reach different destinations in the city.

(xxvii) A detailed traffic and transportation study should be made for existing and projected passenger and cargo traffic.

(xxviii) Examine the details of transport of materials for construction which should include source and availability.

(xxix) Examine the details of National Highways/State Highways/ expressways falling along the corridor and the impact of the development on them.

(xxx) Examine noise levels - present and future with noise abatement measures.

(xxxi) Identify, predict and assess the environmental and sociological impacts on account of the project. A detailed description with costs estimates of CSR should be incorporated in the EIA/EMP report.

(xxxii) Examine separately the details for construction and operation phases both for Environmental Management Plan and Environmental Monitoring Plan with cost and parameters.

(xxxiii) Submit details of a comprehensive Disaster Management Plan including emergency evacuation during natural and man-made disaster.

(xxxiv) Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.

(xxxv) The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.

(xxxvi) Any further clarification on carrying out the above studies including anticipated impacts due to the project and mitigative measure, project proponent can refer to the model ToR available on Ministry website "http://moef.nic.in/Manual/Industrial Estate".

General Guidelines

(i) The EIA document shall be printed on both sides, as for as possible.

(ii) All documents should be properly indexed, page numbered.

(iii) Period/date of data collection should be clearly indicated.

(iv) Authenticated English translation of all material provided in Regional languages.

(v) The letter/application for EC should quote the MoEF&CC File No. and also attach a copy of the letter prescribing the TOR.

(vi) The copy of the letter received from the Ministry on the TOR prescribed for the project should be attached as an annexure to the final EIA-EMP Report.

(vii) The final EIA-EMP report submitted to the Ministry must incorporate the issues in TOR and that raised in Public Hearing. The index of the final EIA-EMP report, must indicate the specific chapter and page no. of the EIA-EMP Report where the specific TOR prescribed by Ministry and the issue raised in the P.H. have been incorporated. Questionnaire related to the project (posted on MoEF&CC website) with all sections duly filled in shall also be submitted at the time of applying for EC.

(viii) Grant of TOR does not mean grant of EC.

(ix) Grant of TOR/EC to the present project does not mean grant of approvals in other regulations such as the Forest (Conservation) Act 1980 or the Wildlife (Protection) Act, 1972.

(x) Grant of EC is also subject to Circulars issued under the EIA Notification 2006, which are available on the MoEF&CC website: www.envfor.nic.in.

(xi) The status of accreditation of the EIA consultant with NABET/QCI shall be specifically mentioned. The consultant shall certify that his accreditation is for the sector for which this EIA is prepared.

(xii) On the front page of EIA/EMP reports, the name of the consultant/ consultancy firm along with their complete details including their accreditation, if any shall be indicated. The consultant while submitting the EIA/EMP report shall give an undertaking to the effect that the prescribed TORs (TOR proposed by the project proponent and additional TOR given by the MoEF) have been complied with and the data submitted is factually correct (Refer MoEF office memorandum dated 4th August, 2009).

(xiii) While submitting the EIA/EMP reports, the name of the experts associated with/involved in the preparation of these reports and the laboratories through which the samples have been got analysed should be stated in the report. It shall clearly be

indicated whether these laboratories are approved under the Environment (Protection) Act, 1986 and the rules made there under (Please refer MoEF office memorandum dated 4th August, 2009). The project leader of the EIA study shall also be mentioned.

(xiv) All the TOR points as presented before the Expert Appraisal Committee (EAC) shall be covered.

5. A detailed draft EIA/EMP report shall be prepared in terms of the above additional ToRs and should be submitted to the State Pollution Control Board for Public Hearing. Public Hearing to be conducted for the project in accordance with the provisions of Environmental Impact Assessment Notification, 2006 and the issues raised by the public should be addressed in the Environmental Management Plan. The Public Hearing shall be conducted based on the ToR letter issued by the Ministry and not on the basis of Minutes of the Meeting available on the web-site.

6. The project proponent shall submit the detailed final EIA/EMP report prepared as per ToRs including issues raised during Public Hearing to the Ministry for considering the proposal for environmental clearance within 3 years as per the MoEF&CC OM No J-11013/41/2006-IA-II(I) (P) dated 8th October, 2014.

7. The consultants involved in preparation of EIA/EMP report after accreditation with Quality Council of India/National Accreditation Board of Education and Training (QCI/NABET) would need to include a certificate in this regard in the EIA/EMP reports prepared by them and data provided by other Organization(s)/Laboratories including their status of approvals etc. vide notification of the MoEF dated 19th July, 2013.

8. The prescribed ToRs would be valid for a period of three years for submission of the EIA/EMP Reports.

23.08.2017

(Raghu Kumar Kodali)
Director/ Scientist F

Copy to:

1. The Member Secretary, Haryana Pollution Control Board, C-11, Sector 6, Panchkula (Haryana)

23.08.2017

(Raghu Kumar Kodali)
Director/ Scientist F

Compliance to Additional Terms of Reference (ToR) Points for Industrial Estate Project IMT, Kharkhoda, Sonepat, Haryana by M/s Haryana State Industrial and Infrastructure Development Corporation Ltd.

General Conditions

ToR 1:Reasons for selecting the site with details of alternate sites examined/rejected/selected on merit with comparative statement and reason/basis for selection. The examination should justify site suitability in terms of environmental damage, resources sustainability associated with selected site as compared to rejected sites. The analysis should include parameters considered along with weightage criteria for short-listing selected site.

Reply: Site selection of the Industrial Estate project is based on various considerations.

- Physical Infrastructure
- Environment consideration (land use, air pollution, water pollution sensitivities)
- Socio Economic consideration

In Kharkhoda Development Plan (2008-2021), the direction for city development is southward; areas for living and production are located to the north and south of KMP Expressway and railway, respectively; and the site is located right in the latter area. In this way, the development positioning of new industrial city in site is accurate and conforms to Kharkhoda Development Plan (2008-2021).

Periphery environment is favorable. Traffic and municipal condition are good which can satisfy the local planning requirements. Positioning of the industrial park is accurate and feasible. Terrain is flat. Remising price is low, and so is transformation cost. The value of the land has great potential. Overall, it is very favorable for project construction and realization of planned positioning.

ToR 2:Submit the details of the land use break-up for the proposed project. Details of land use around 10 km radius of the project site. Analysis should be made based on latest satellite imagery for land use with raw images check on flood plain of any river.

Reply: The details of the land use break-up for the proposed project is given below and land use map of the project is attached in ***Annexure-I(b)***.

Initially, the net site area was 3271.26 Acre (1323.86 Ha) for which ToR was issuedby MoEFCC vide letter no. 21-237/2017-IA.III dated 23rd August, 2017.

Out of the 3271.26 acre, 52.15 acre related to other Govt. Dept./agencies could not be takenover. Therefore, the DEIA/EMP was prepared on the basis of reduced area i.e. 3219.11 Acreon which Public Hearing was held.

Further, 1.92 Acre land was released in accordance with High Court Order vide notificationno.2/1/4-1-IB-II-2010 dated 03.06.2019 issued by Addl. Chief Secretary to Government,Haryana, Industries & Commerce Departments. Therefore, the net site area further reduced to3217.19 Acre (1301.95 Ha) on the basis of which FEIA/EMP report has been prepared, which is well within the area for which ToR was issued. As per EAC meeting held on 22nd Oct, 2019, there is slight changes in area and Industries.

Detailed Area Statement

S. No.	Area Statement	In Acre	In Hectare	In Sqm	%age
1	Total Site Area	3306.32	1338.02	13380202.32	
(A)	Area released	89.13	36.06	360696.31	2.69
(B)	Balance Land	3217.19	1301.95	13019506.02	97.31
(a)	Raw Land allotted to Gram Panchayat Village Rampur for BPL Families	10.0	4.046	40468.56	0.31
(b)	Area Reserved for Industrial Plots	1243.28	503.13	5031375.65	38.64
(c)	Area Reserved for Commercial Use	171.51	69.407	694076.34	5.33
(d)	Area Reserved for Public Utilities/Buildings	168.47	68.18	681773.90	5.24
(e)	Area Reserved for Institutional Use	147.61	59.73	597356.47	4.54
(f)	Area Reserved for R&R Plots	109.29	44.22	442280.9	3.4
(g)	Area Reserved for R&R Pockets & Land Pooling Plots/Housing	163.58	66.198	661984.79	5.08
(h)	Area Reserved for Green Belts, Open Spaces, Roads, Orbital Rail Corridor & Parking etc.	1203.45	487.02	4870189.36	37.41

ToR 3: Submit details of environmentally sensitive places, land acquisition status, rehabilitation of communities/ villages and present status of such activities.

Reply: Land Acquisition Status and details is attached as ***Annexure*-II**, status of rehabilitation is attached as***Annexure*-III.**

Details of Environmentally sensitive places are given in the following table:-

Type of Sensitive Place	**Name of the Environmentally sensitive place**	**Distance from the project site**
Hospital	**Maharishi Valmiki Hospital**	**10 Km, SE**
School	**JawaharNavodayaVidhliya** **Gurukula Sr. Sec School**	**3 Km, SE** **8 Km, NW**
Place of Worship	**Radha Krishna Temple**	**1o.50 Km, SE**

ToR 4: Examine the impact of proposed project on the nearest settlements.

Reply: As this is an Industrial Estate project, there will be positive impact on the economic growth of the area. It will generate employment for the skilled & semi-skilled persons. Detailed impact of the project on the influx of people and other associated activities is described in the Chapter 3 of EIA/EMP report. There are different parameters like air emission-SO_2, NOx, earth/solid waste, hazardous waste generation such as used oil and paints, noise, sewage, solid waste etc. which possess impacts on the project site & surrounding areas during construction & operation phase.

ToR 5: Examine baseline environmental quality along with projected incremental load due to the project taking into account of the existing developments nearby.

Reply: The detailed study of baseline environmental quality along with projected incremental load due to the project is shown in Chapter-4 of the EIA/EMP report.

ToR 6: Environmental data to be considered in relation to the project development would be (a) land, (b) groundwater, (c) surface water, (d) air, (e) bio-diversity, (f) noise and vibrations, (g) socio economic and health.

Reply: *The En*vironmental data are consider with relation to the project development like land, ground water, surface water, air , bio-diversity ,noise & vibration, socio economic and health etc. detailed study is shown in Chapter -3 of EIA/EMP report.

ToR 7: Submit a copy of the contour plan with slopes, drainage pattern of the site and surrounding area, and any obstruction of the same by the project.

Reply: Contour Plan is attached as***Annexure XIII***

ToR 8: Details regarding project boundary passing through any eco- sensitive area and within 10 km from eco- sensitive area.

Reply: Sonepat district lies in the south east of Haryana state located 20 km of New Delhi. The Co-ordinates of the project site are 28°51'17.74"N, 76°56'42.20"E and project site is not passing through any eco sensitive area within 10 km.

ToR 9: Green buffer in the form of green belt to a width of 15 meters should be provided all along the periphery of the industrial area. The individual units should keep 33% of the allotted area as a green area.
Reply: Landscape Plan is attached as ***Annexure VI***

ToR 10: Submit the details of the trees to be felled for the project.
Reply: The project site is a barren land, hence, tree felling is not required.

ToR 11: Submit the details of the infrastructure to be developed.
Reply: Industries are among the list of non-polluting industries recommended by the HSIIDC. They are general manufacturing, automobiles, mechanical and foot wears industries etc. and will be developed by the successful entrepreneurs.

ToR 12: Submit the present land use and permission required for any conversion such as forest, agriculture etc.
Reply: Industries are among the list of non-polluting industries recommended by the HSIIDC. They are general manufacturing, automobiles, mechanical and foot wears industries etc. and will be developed by the successful entrepreneurs. The R&R Policy is attached in **Annexure-III.**

ToR 13:Submit details regarding R&R involved in the project
Reply: The details regarding R&R involved in the project is enclosed as **Annexure III.**

ToR 14: Zoning of the area in terms of 'type of industries' coming-up in the industrial area based on the resource requirement along with likely pollutants with quantity from the various industries. (Along with Category of Industry as per EIA Notification)
Reply: Zoning of the area in terms of 'type of industries' coming-up in the industrial areahas been done and marked in layout plan. Also list of Industries coming up in the industrial area is attached as ***Annexure XV.***

ToR 15: The project boundary area and study area for which the base line data is generated should be indicated through a suitable map. Justification of the parameters, frequency and locations shall be discussed in the EIA.

Reply: The project boundary area and study area for which the base line data is generated is suitably indicated in EIA/EMP report of the project. Justification of parameters, frequency and location is discussed in the Chapter-3 of the EIA report.

ToR 16: Submit Legal frame work for the implementation of Environmental Clearance conditions - to be clearly spelt out in the EIA report.

Reply: We will set up a team which will fulfill the Environmental Clearance Condition. Details of the same are given in Chapter 9 of the EIA report.

ToR 17: Submit Roles and responsibility of the developer etc. for compliance of environmental regulations under the provisions of EP Act.

Reply: The impact associated with respect to the socioeconomic environment will be beneficial. In respect of land acquired in terms of land acquisition policy notified by Industries and Commerce Department vide No. 49/48/2006-41BL dated 4thmay 2006 a sum of Rs. 42,000 per acre annual will be paid for a period of 33 years by private developers and this annuity will be increased by Rs. 1500 every year. Rehabilitation and Resettlement plan is enclosed as ***Annexure -III.***

ToR 18: Site justification of the identified industry sectors from environmental angle and the details of the studies conducted if any.

Reply: Site selection of the Industrial Estate project is based on various considerations.

- Physical Infrastructure
- Environment consideration (land use, air pollution, water pollution sensitivities)
- Socio economic consideration

In Kharkhoda Development Plan (2008-2021), the direction for city development is southward; areas for living and production are located to the north and south of KMP Expressway and railway, respectively; and the site is located right in the latter area. In this way, the development positioning of new industrial city in site is accurate and conforms to Kharkhoda Development Plan (2008-2021).

Periphery environment is favorable. Traffic and municipal condition are good which can satisfy the local planning requirements. Positioning of the industrial park is accurate and feasible. Terrain is flat. Remising price is low, and so is transformation cost. The value of the land has great potential. Overall, it is very favorable for project construction and realization of planned positioning.

ToR 19: Ground water classification as per the Central Ground Water Authority.

Reply: The district of Sonipat is bounded by 28°48'15" to 29017'10" North latitude and 76°28'40" to 77°12'45" East longitude. Total geographical area of the district is 2260.53 sq.km.The district is surrounded by Panipatdistrict in the north, Jind district in thewest,Rohtak district in the S.W direction and Delhi in the South.The River Yamuna, which borders the district in the East, is the main river in the district. The district is drained by drain no.8, which was constructed to take out excess monsoon runoff from uplands to River Yamuna. Ground water occurs in alluvial sand, silt, kankar and gravel, which form potential aquifer zones. Depth to water level during pre-monsoon variesfrom 1.57 to 24.84mwhile during post-monsoon it varies from 0.64 to 22.46 m. The depth to water level lies within 5 to 20 m below the land surface in most parts of the district. It rests between 2 to 25m deep in the eastern side and 2 to 10m in the north western parts of the district. Only in small patches in the Rai block, water table is deeper having range of 20m to 40m. Water table elevations range from 230 to 220m and the general ground water flow is from northwest to southeast.

ToR 20: Submit the source of water, requirement vis-à-vis waste water to begenerated along with treatment facilities, use of treated waste water along with water balance chart taking into account all forms of water use and management.

Reply: Total water requirement for the proposed IMT, Kharkhoda project will be 92.6659 MLD out of which fresh water demand will be 58 MLD and rest of the demand shall be met out from treated waste water. Ground water cannot be used for drinking purpose its saline in nature. So, water will be taken from Western Yamuna Canal. The wastewater generated from the project will be approx 64 MLD and Wastewater will be treated in the CETP of 64 MLD capacity. WaterPermission is enclosed as ***Annexure-VIII.***

ToR 21: Rain water harvesting proposals should be made with due safeguards forground water quality. Maximize recycling of water and utilization of rain water. Examine details.

Reply: Total 200 nos of Rain Water Harvesting pits have been proposed to recharge the ground water. Rain Water Harvesting Plan is attached as ***Annexure XVIII.***

ToR 22: Examine soil characteristics and depth of ground water table for rainwater harvesting.

Reply: Soil Characteristics and depth of ground water table is given in Chapter-3.

ToR 23: Examine details of solid waste generation treatment and its disposal

Reply: During operation phase, following types of waste will be generated:

Household waste: Assuming 0.50 kg/person of household waste produced every day, then the waste generation from the project will be about 4.137 ton/day from the residential zone.

Industrial waste: Industrial waste will be under fully classified collection. Classification of industrial waste would be coordinated with urban household waste so as to realize unified disposal.

Industrial wastes are planned to be classified into recyclable, non-recyclable and toxic and harmful waste. It is estimated that approx. 34.197 ton/day of industrial waste will be generated from the industrial zone.

Medical waste: Approx. 0.938 ton / day of medical waste will be generated from the project.

Total solid waste generation during operation phase will be approx. 131 ton/day.

ToR 24: Examine and submit details of use of solar energy and alternative source of energy to reduce the fossil energy consumption.

Reply: To promote energy conservation, it is proposed to provide the buildings with low energy consuming fixtures maximize availability of natural light. The proponents will make arrangements for meeting any electricity shortage for the project. Therefore, energy resources of the region will not be affected significantly.

- To replace all the incandescent lamps and 40W tube lights with conventional choke with CFL & T5-28W tube lights respectively.
- To replace all the old tube light street light fixtures with energy efficient fixtures. Expenditure for replacement of CFL based light with T5-28W tube lights & old tube light street light fixtures with energy efficient fixtures will be recovered with in a period of 5 years through savings.

Another notification of Govt. of Haryana regarding use of solar water heating system has come on 29th July, 2005 vides letter no. 22/52/05-5P.

The use of solar water heating systems will be mandatory in the following categories of building namely:

- Industries where hot water is required for processing
- Hospitals and Nursing homes including Govt. hospitals

- Hotels, Motels and Banquet halls
- Jai Barracks, Canteens
- Housing complexes set up by Group Housing Societies/Housing Boards
- All residential buildings built on a plot of size 500 square yards and above falling within the limits of municipal committees/corporations and HUDA sectors
- All Government buildings, residential schools, educational colleges, hostels, technical/vocational education institutes.

As far wind energy is concerned, it may be explored at later stages, but as now there is no provision of wind energy.

Environmental aspects of the project are not just limited to environmental impact of sources of pollution but also relate to energy conservation, water conservation and other issues, which are mentioned in Table.

Table: Mitigation Measure

S.No.	Area	Mitigation Measures
I.	Energy conservation	• Solar water heater, Day lighting, Energy efficient fixtures, CFL& T5-28W tube light instead of incandescent lamp. • Public area lighting • Exterior lighting
II.	Water conservation	• Reuse of recycled water • Gardening water sources
III.	Internal Roads and Accesses	• 60 m -75 m wide road accesses, entry and exit at separate gate, traffic rotary
IV.	Material Use	• Construction materials selection • Paint selection • Use of recycled materials • Use of timber
V.	Aesthetics during functional Use	• Clothes drying facilities • Visitors parking • Playground for children • Service roads for walking • Flower bed water disposal • Floor washing arrangements • Air conditioning arrangements • Standby power supply • Provision for garden • Maintenance staff

VI.	Facilities for servants	• Servant quarters • Rest rooms with toilets for security persons.

ToR 25: In case DG sets are likely to be used during construction and operational phase of the project, emissions from DG sets must be taken into consideration while estimating the impacts on air environment. Examine and submit details.

Reply: ISCST3 - Dispersion model was used to predict GLC of all pollutants; SO_2, NO_2, CO and PM with stack & emission and hourly meteorological data. 24-hours average maximum predicted GLC of NO_2 has been given in Chapter-4.

ToR 26: Examine road/rail connectivity to the project site and impact on thetraffic due to the proposed project. Present and future traffic and transport facilities for the region should be analyzed with measures for preventing traffic congestion and providing faster trouble free system to reach different destinations in the city.

Reply: The site has good connectivity with the road network; it is bounded by the KMP expressway in north and SH-18 in the east.

ToR 27: A detailed traffic and transportation study should be made for existing and Project passenger and cargo traffic.

Reply: Traffic study for the proposed project has been done and is attached as ***Annexure XVI***.

ToR 28: Examine the details of transport of materials for construction which should include source and availability

Reply: The details of transport of materials for construction which include sources are enclosed in **Annexure-X.**

ToR 29: Examine the details of National Highways/State Highways/ expressways falling along the corridor and the impact of the development on them.

Reply: The site has been acquired on the basis of its connectivity to the major cities through the State Highway-18 which is adjacent to the project site and there is no impact on this highway because of given project.

ToR 30: Examine noise levels present and future with noise abatement measures.

Reply: Detailed study about the noise level is shown in Chapter-3 of the EIA/EMP report.

ToR 31: Identify, predict and assess the environmental and sociological impactson account of the project. A detailed description with costs estimates of CSR should be incorporated in the EIA / EMP report.

Reply: The environmental, sociological and detailed description with cost estimates of CSR is incorporated in the EIA / EMP report and socio-economic details are given in Chapter-3.

ToR 32: Examine separately the details for construction and operation phasesboth for Environmental Management Plan and Environmental Monitoring Plan with cost and parameters.

Reply: Total project cost is 4000 crores that includes the land and development cost. The details of construction and operation phases both for environmental management plan is shown in the Chapter-9 of EIA/EMP report.

ToR 33: Submit details of a comprehensive Disaster Management Plan including emergency evacuation during natural and man-made disaster.

Reply: The detailed study of Disaster management plan including emergency evacuation during natural and man-made disaster is shown in the Chapter-7 of the EIA/EMP report.

ToR 34: Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.

Reply: There is no litigation pending against the project.

ToR 35: The cost of the Project (capital cost and recurring cost) as well as the cost towardsimplementation of EMP should be clearly spelt out.

Reply: The cost of project and EMP has been clearly spelt out in the EIA/EMP Report.

ToR36: Any further clarification on carrying out the above studies includinganticipated impacts due to the project and mitigative measure, project proponent can refer to the model ToR available on Ministry website "http: / /moef.nic.in/Manual/Industrial Estate"

Reply: Agreed.

Additional Conditions

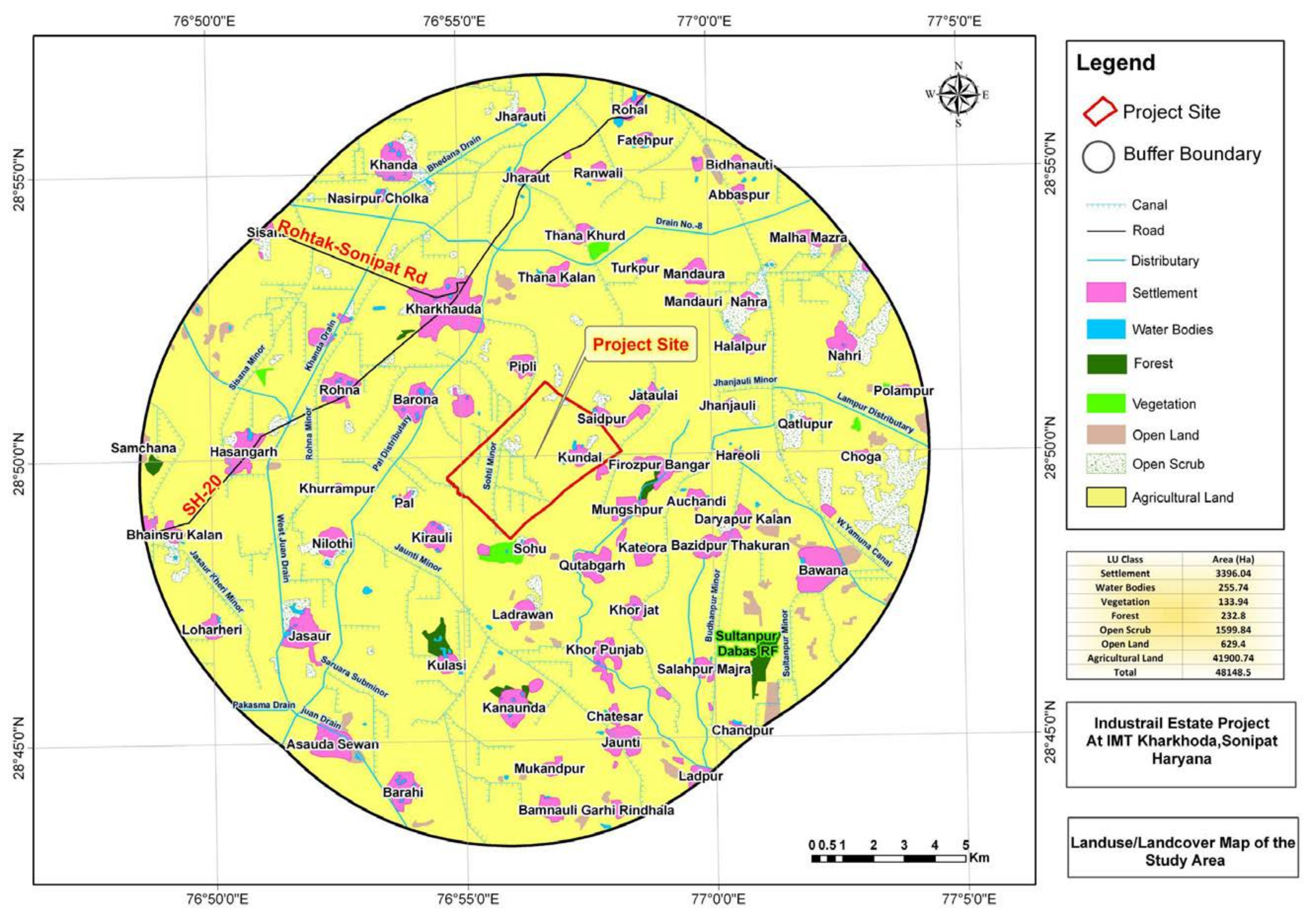
ToR 1: Detailed traffic study and planning for access to main roads to avoid accidents.

Reply: Traffic study for the proposed project has been done and is attached as ***Annexure XVI***.

ToR 2: Permission shall be obtained from competent authority for drawing water fromYamuna Canal.
Reply: Permission for drawing water from Yamuna Canal is attached as **Annexure IX.**

ToR 3: The cumulative Environmental Impact Assessment shall be carried out whilepreparing EIA report.
Reply: Agreed

ToR 4: Develop ground water rejuvenation plan for the region from competent agency andprovide appropriate financial mechanism to implement the same.
Reply: Theground water rejuvenation plan for the region has been prepared and attached as ***Annexure XVII***. 200 nos of Rain Water Harvesting pits have been proposed to recharge the ground Water.



Legend

- Project Site
- Buffer Boundary
- Canal
- Road
- Distributary
- Settlement
- Water Bodies
- Forest
- Vegetation
- Open Land
- Open Scrub
- Agricultural Land

LU Class	Area (Ha)
Settlement	3396.04
Water Bodies	255.74
Vegetation	133.94
Forest	232.8
Open Scrub	1599.84
Open Land	629.4
Agricultural Land	41900.74
Total	48148.5

Industrail Estate Project At IMT Kharkhoda,Sonipat Haryana

Landuse/Landcover Map of the Study Area

DISTRICT SONIPAT

Award announced by Sh. Suresh Kumar, District Revenue [illegible] **Land Acquisition Collector, Sonipat**

Award No. 10

Date of Award:- 30-09-2016

Village:- Kunsia[illegible]

In pursuance of the Govt. Notification No. **2/16/2013-1IB-II**, dated [illegible]-12-2013 published in Govt. Gazette dated **24-12-2013** u/s-4 of the Land Acquisition Act, 1894 (hereinafter referred to as the Act) and declared vide Notification No. [illegible] **II, Dated 17-12-2014** u/s 6 of the Land Acquisition Act, 1894 thereinafter published [illegible] Gazette dated 17-12-2014 Total land acquired is **45 Bigha 15 Biswa** at village [illegible] Tehsil Kharkhoda District Sonipat at public expense, for a public purpose [illegible] for the development of Industrial Model Township **Kharkhoda** in Villages [illegible] [illegible] Pipli [illegible] Nizampur Khurd, Sohati, Pahladpur [illegible] Kharkhoda District Sonipat.

MEASUREMENT

The area given in the Notification u/s 6 of the Land Acquisition Act [illegible] Bigha 15 Biswa. The land under acquisition lies in **17** fields as per detail [illegible] prepared under paragraph 36 of the Financial Commissioner standing orders [illegible] agree with the classification of the fields of entries in the "Jamabandi" for the year [illegible]

Class of Land Acquired	Area Under Acquisition Bigha	Biswa
Nahri/Chahi/Gair Mumkin	45	[illegible]

The details of Khasra Nos. of the land under acquisition are [illegible] [illegible] [illegible] [illegible] [illegible] 121/2min(3-4), [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] 208/2(1-10), 277/2 [illegible] [illegible] [illegible] 1675/844/1(0-18), 1675/844/2(0-18), 1676/844/3(0-8), 264/12(0-8), [illegible] [illegible] measuring 45 Bigha 15 Biswa.

The landowners and the interested persons have accepted the measurement and the classification of the land and no objection in this regard have been received from the Acquiring Department also.

COST OF LAND

In view of section 24 (a) of the Right to Fair Compensation and Transparency in Land Acquisition Rehabilitation and Resettlement Act, 2013 (for short "New Act, 2013") "in case no award u/s 11 of said land acquisition act has been made, then all provisions of this act relating to the determination of compensation shall apply." The notification u/s 6 of Land Acquisition Act, 1894 has already been issued as stated above, as such all provisions of New Act, 2013 shall apply for determination of compensation of acquired land.

The market value of acquired land is determined as per the provisions of section 26 & solatium is imposed as per section 30 of New Act, 2013, the relevant provisions of these sections are extracted below :-

26 (1) The collector shall adopt the following criteria in assessing and determining the market value of the land, namely:-

(a) The Market value, if any, specified in the Indian Stamp Act, 1899 (2 of 1899) for the registration of sale deed or agreements to sell, in the case such document are in any area where the land is situated; or

(b) The average sale price for similar type of land situated in the nearest village or nearest vicinity area or

Whichever is higher.

Explanation 1.- The average sale price referred to in clause (b) shall be determined taking into account the sale deeds or the agreements to sell registered for similar type of area in the near village or near vicinity area during immediately preceding three years of the year in which such acquisition of land is proposed to be made.

Explanation 2.- For determining the average sale price referred to in this explanation, fifty per cent. of the total number of sale deeds or the agreements to sell in which the highest sale price has been mentioned shall be taken into account.

(2) The market value calculated as per sub section (1) shall be multiplied by a factor to be specified in the First Schedule.

30(1) Award of solatium. - (1) The collector, while determining the amount of compensation to be paid, shall, to arrive at the final award, impose an "solatium" amount equivalent to one hundred per cent. of the compensation amount.

A meeting of committee, presided by the District Revenue Officer-cum-Land Acquisition Collector, Sonipat was held on 6-06-2018 at 4.00 PM, in the Office of District Revenue Officer-cum- Land Acquisition Collector, Sonipat, 1st floor, Mini Secretariat, Sonipat for fixation of the market rate of the land under acquisition. Keeping in view the above said relevant provisions of New Act, 2013, the committee vide his letter memorandum No. 4789/80/Spc LA, dated 13-06-2018 has applied the market value(price) i.e. Rs. 35,00,000/- Per acre up to the depth of five acre from Khurkhoda to Delhi road and Rs. 30,00,000/- per acre for remaining land for every kind of Land.

Keeping in view the location of land and all other factors, which are essential for determination of the market value, I award Rs. 35,00,000/- per acre up to depth of five acre from Khurkhoda to Delhi road and Rs. 30,00,000/- per acre for remaining land in every kind of Land.

By applying the above-mentioned rate, the price of land under acquisition is taken worked out as under:-

Class of Land Acquired	Area under Acquisition		
	Bigha	Biswa	Biswa
Nahri/Chahi/Gair Mumkin	45	15	2,81,250

Price of land according to Sub Section 1-A of section 23 of the Land Acquisition Act 1894.

The landowners and the interested persons will be entitled to 12% p.a. (15.25%) on the market value i.e. Rs. 2,85,93,750/-, according to sub section 1-A of section 23 of the Act, which comes to Rs.99,81,701/-.

The landowners and the interested persons will be entitled to 100% solatium (which is consideration of compulsory nature of acquisition) on the total price of land i.e. Rs. 2,85,93,750/- which comes to Rs. **2,85,93,750/-**.

It is pertinent to mention here that multiplier factor specified in the First Schedule of the New Act, 2013, has been notified 1.00 times by State Government vide notification no. 551/R-5/2018/6894 dated 04-12-2018 for rural area.

That the supplementary award of tubewells, fruit trees, shades, trees etc. will be announced separately.

POSSESSION OF LAND

The possession of **45 Bigha 15 Biswa** land under acquisition has been taken over by the concerned Department i.e. 30-09-2016.

MODE OF PAYMENT

Payment will be made to the land owners according to the shares and rights as entitled in the last "Jamabandi". However, on account of death of any landowner, the compensation could be paid to the legal heirs of the deceased. In case of dispute, the compensation amount will be kept in the Bank till the contesting parties come to an amicable settlement or get dispute decided by a competent court of law. Similarly in the case of absence of a landowner, the compensation amount will be kept in the bank till the original payees turn up.

The acquired land will vest absolutely in the Government, free from all encumbrances with effect today, the 30-09-2016.

Subject to the above remarks, the award stands as follows:-

Sr. No	Price	Amount	12% p.a (33.23% u/s 23 (1&A)	100% Solatium	Total
1.	Price of Land	2,85,93,750	93,01,701	2,85,93,750	6,64,89,201

(Rupees Six crore Sixty six lacs Eighty nine thousand two hundred one only)

Announced on 30-09-2016 at Mini Secretariat, sonipat, in the presence of persons interested and notice u/s 12 (2) of the Act be issued to those who are not present.

District Revenue Officer-cum
Land Acquisition Collector, Sonipat

Place:- Sonipat
Dated:-30-09-2016

Endst. No. 65-66 /Kgo LA Sonipat Dated 30/09/2016

A copy of the above is forwarded to the following for information:-

1. Principal Secretary to Govt. of Haryana Industries Department, Chandigarh.
2. Director of Industries & Commerce, Haryana, Chandigarh.
3. Managing Director, Haryana State Infrastructure & Industries Development Corporation Ltd. Plot No. C 13-14, Sector-6, Panchkula.
4. Deputy Commissioner, Sonipat.
5. Senior Manager(IA), HSIIDC, Industrial Estate, Kundli, Tehsil & Distt. Sonipat.
6. Tehsildar, Kharkhoda, he is requested to enter and section the mutation of land in favour of Haryana State (HSIIDC)

District Revenue Officer-cum
Land Acquisition Collector, Sonipat

DISTRICT SONIPAT

Award announced by Sh. Suresh Kumar, District Revenue Officer cum-Land Acquisition Collector, Sonipat

Award No. 11

Date of Award:- 30-09-2016

Village:- Pipli

In pursuance of the Govt. Notification No.-**2/16/2013-1IB-II**, dated 24-12-2013, published in Govt. Gazette dated **24-12-2013** u/s-4 of the Land Acquisition Act, 1894 (hereinafter referred to as the Act) and declared vide Notification No. -2/16/2013-1IB-**II, Dated** 17-12-2014 u/s 6 of the Land Acquisition Act, 1894 thereinafter published in Govt. Gazette dated **17-12-2014** Total land acquired is **0 Acre 5 Kanal 3 Marla** in village Pipli Rakhat No. 128 Tehsil Kharkhoda District Sonipat at public expense, for a public purpose, namely, for the development of Industrial Modern Township Kharkhoda in Villages Gopalpur, Pipli, Sekhpur, Kundal, Rasgan, Firozpur, Jhasgir, Nizampur Khurd, Sohti, Pahalajpur etc. Distt. Tehsil Kharkhoda District Sonipat.

MEASUREMENT

The area given in the Notification u/s 6 of the Land Acquisition Act, 1894 is 0 Acre 5 **Kanal 3 Marla** While the Award has been announced of **0 Acre 5** Kanal 3 Marla. The land under acquisition lies in 4 fields as per detail given in form no. 1, prepared under paragraph 26 of the Financial Commissioner standing order no. 28. I agree with the classification of the basis of entries in the "Jamabandi" for the year **2011-12.**

Class of Land Acquired	Area Under Acquisition		
	Acre	**Kanal**	Marla
Nahri/Chahi/Gair Mumkin	**0**	**5**	3

The details of Khasra Nos. of the land under acquisition are as under:- 5/1(min)(3-0), 84/2/2/2/2(0-14), 72/26(0-5), 168/min(2-4) **fields no. 4 measuring 0** Acre 5 Kanal 3 Marla.

The landowners and the interested persons have accepted the measurement and the classification of the land and no objection in this regard have been received from the Acquiring Department also.

COST OF LAND

In view of section 24 (a) of the Right to Fair Compensation and Transparency in Land Acquisition Rehabilitation and Resettlement Act, 2013 (for short New Act, 2013), "where no award u/s 11 of said land acquisition act has been made, then all provisions of this act relating to the determination of compensation shall apply." The notification u/s 4 & 6 of Land Acquisition Act, 1894 has already been issued as stated above, as such all provisions of New Act, 2013 shall apply for determination of compensation of acquired land.

The market value of acquired land is determined as per the provisions of section 26 & solatium is imposed as per section 30 of New Act, 2013, the relevant provisions of these section are extracted below : -

26 (*1*) The collector shall adopt the following criteria in assessing and determining the market value of the land, namely:-

(a) The Market value , if any, specified in the Indian Stamp Act, 1899 (2 of 1899) for the registration of sale deed or agreements to sell, as the case may be, in the area, where the land is situated; or

(b) The average sale price for similar type of land situated in the nearest village or nearest vicinity area; or

Whichever is higher.

Explanation 1.- The average sale price referred to in clause (b) shall be determined taking into account the sale deeds or the agreements to sell registered for similar type of area in the near village or near vicinity area during immediately preceding three years of the year in which such acquisition of land is proposed to be made.

Explanation 2.- For determining the average sale price referred to in Explanation 1., one-half of the total number of sale deeds or the agreements to sell in which the highest sale price has been mentioned shall be taken into account.

(*II*) The market value calculated as per sub section (*1*) shall be multiplied by a factor to be specified in the First Schedule.

30(*1*) Award of solatium. – (*1*) The collector having determined the total compensation to be paid, shall, to arrive at the final award, impose as "solatium" amount equivalent to one hundred per cent. of the compensation amount.

A meeting of committee, presided by the District Revenue Officer-cum-Land Acquisition Collector, Sonipat was held on 6-06-2016 at 4.00 PM, in the Office of District Revenue Officer-cum- Land Acquisition Collector, Sonipat, 1st floor, Mini Secretariat, Sonipat for fixation of the market rate of the land under acquisition. Keeping in view, the above said relevant provisions of New Act, 2013, the committee vide his letter endorsement No. 4789-90/Kgo LA, dated 13-06-2016 has supplied the market value/price/rate Rs. 35,00,000/- Per acre up to the depth of five acre from Kharkhoda to Delhi road and Rs. 30,00,000/- per acre for remaining land for every kind of land.

Keeping in view the location of land and all other factors, which are essential for determination of the market value, I award Rs. 35,00,000/- per acre up to depth of five acre from Kharkhoda to Delhi road and Rs. 30,00,000/- per acre for remaining land for every kind of land.

By applying the above-mentioned rate, the price of land under acquisition has been worked out as under:-

Class of Land Acquired	Area under Acquisition			Total
	Acre	Kanal	Marla	
Class'A' Nahri/Chahi/Gair Mumkin	0	0	5	2,55,095/-
Class'B' Nahri/Chahi/Gair Mumkin	0	4	18	16,91,780/-
Total	0	5	3	19,46,875/-

Price of land according to Sub Section 1-A of section 23 of the land Acquisition Act, 1894.

The landowners and the interested persons will be entitled to 12% p.a. (33.23%) on the market value i.e. Rs.19,46,875/-, according to sub section 1-A of section 23 of the Act, which comes to Rs. 6,46,946/-.

The landowners and the interested persons will be entitled to 100% Solatium which is consideration of compulsory nature of acquisition on the total price of land i.e. Rs.19,46,875/- which comes to Rs. 19,46,875/-.

It is pertinent to mention here that multiplier factor specified in the First Schedule of the New Act, 2013, has been notified 1.00 (One) by State Government vide notification no. 2331-8-5-2014/16094 dated 04-12-2014 for rural area.

That the supplementary award of tubewells, fruit trees, shadow trees & structure etc. will be announced separately.

POSSESSION OF LAND

The possession of **0 Acre 5 Kanal 3 Marla.** land under acquisition has been delivered to the concerned Department i.e 30-09-2016.

MODE OF PAYMENT

Payment will be made to the land owners according to the shares acid rights as entitled in the last "Jamabandi". However, on account of death of any landowner, the compensation could be paid to the legal heirs of the deceased. In case of dispute, the compensation amount will be kept in the Bank till the contesting parties come to an amicable settlement or get dispute decided by a competent court of law. Similarly in the case of absence of a landowner, the compensation amount will be kept in the bank till the original payees turns up.

The acquired land will vest absolutely in the Government, free from all encumbrances with effect today, the 30-09-2016.

Subject to the above remarks, the award stands as follows:-

Sr. No.	Price	Amount	12% p.a (33.23%) u/s 23 (1&A)	100% Solatium	Total
1.	Price of Land	19,46,875	6,46,946/-	19,46,875	45,40,696/-

(Rupees Forty Five lacs Forty thousand Six hundred Ninety six only)

Announced on **30-09-2016** at Mini Secretariat, sonipat. in the presence of persons interested and notice u/s 12 (2) of the Act be issued to those who are not present.

District Revenue Officer-cum
Land Acquisition Collector, Sonipat

Place:- Sonipat
Dated:-30-09-2016
Endst. No. 67-72 /Kgo LA Sonipat **Dated** 30/09/2016

A copy of the above is forwarded to the following for information:-

1. Principal Secretary to Govt. of Haryana Industries Department, Chandigarh.
2. Director of Industries & Commerce, Haryana, Chandigarh.
3. Managing Director, Haryana State Infrastructure & Industries Development Corporation Ltd. Plot No. C 13-14, Sector-6, Panchkula.
4. Deputy Commissioner, Sonipat.
5. Senior Manager(IA), HSIIDC, Industrial Estate, Kundli, Tehsil & District Sonipat.
6. Tehsildar, Kharkhoda, he is requested to enter and section the mutation of land in favour of Haryana State (HSIIDC)

District Revenue Officer-cum
Land Acquisition Collector, Sonipat

DISTRICT SONIPAT

Award announced by Sh. Suresh Kumar, District Revenue Officer cum-Land Acquisition Collector, Sonipat

Award No. 12

Date of Award:- 30-09-2016

Village:- Saidpur

In pursuance of the Govt. Notification No.-**2/16/2013-1IB-II, dated 24-12-2013,** published in Govt. Gazette dated **24-12-2013** u/s-4 of the Land Acquisition Act, 1894 (hereinafter referred to as the Act) and declared vide Notification No. **-2/16/2013-1IB-II, Dated 17-12-2014** u/s 6 of the Land Acquisition Act, 1894 thereinafter published in Govt. Gazette dated **17-12-2014** Total land acquired is **0 Acre 0 Kanal 3 Marla** at village **Saidpur** Hadbast No. **239** Tehsil Kharkhoda District Sonipat at public expense, for a public purpose, namely, for the development of Industrial Modern Township Kharkhoda in Villages Gopalpur, Pipli, Saidpur, Kundal, Rampur, Firozpur, Banger, Nizampur Khurd, Sohati, Pahladpur and Borana, Tehsil Kharkhoda District Sonipat

MEASUREMENT

The area given in the Notification u/s 6 of the Land Acquisition Act, 1894 is **0 Acre 0 Kanal 3 Marla** While the Award has been announced of **0 Acre 0 Kanal 3 Marla** The land under acquisition lies in **1** fields as per detail given in form no. 1, prepared under paragraph 36 of the Financial Commissioner standing order no. 28. I agree with the classification of the basis of entries in the "Jamabandi" for the year **2010-11.**

Class of Land Acquired	Area Under Acquisition		
	Acre	Kanal	Marla
Nahri/Chahi/Gair Mumkin	**0**	**0**	**3**

The details of Khasra Nos. of the land under acquisition are as under:- 36//14/2(0-3)

fields no. 1 measuring 0 Acre 0 Kanal 3 Marla.

The landowners and the interested persons have accepted the measurement and the classification of the land and no objection in this regard have been received from the Acquiring Department also.

COST OF LAND

In view of section 24 (a) of the Right to Fair Compensation and Transparency in Land Acquisition Rehabilitation and Resettlement Act, 2013 (for short New Act, 2013), "where no award u/s 11 of said land acquisition act has been made, then all provisions of this act relating to the determination of compensation shall apply." The notification u/s 4 & 6 of Land Acquisition Act, 1894 has already been issued as stated above, as such all provisions of New Act, 2013 shall apply for determination of compensation of acquired land.

The market value of acquired land is determined as per the provisions of section 26 & solatium is imposed as per section 30 of New Act, 2013, the relevant provisions of these section are extracted below : -

26(*1*) The collector shall adopt the following criteria in assessing and determining the market value of the land, namely:-

(a) The Market value , if any, specified in the Indian Stamp Act, 1899 (2 of 1899) for the registration of sale deed or agreements to sell, as the case may be, in the area, where the land is situated; or

(b) The average sale price for similar type of land situated in the nearest village or nearest vicinity area; or

Whichever is higher.

Explanation 1.- The average sale price referred to in clause (b) shall be determined taking into account the sale deeds or the agreements to sell registered for similar type of area in the near village or near vicinity area during immediately preceding three years of the year in which such acquisition of land is proposed to be made.

Explanation 2.- For determining the average sale price referred to in Explanation 1., one-half of the total number of sale deeds or the agreements to sell in which the highest sale price has been mentioned shall be taken into account.

(*ii*) The market value calculated as per sub section (*i*) shall be multiplied by a factor to be specified in the First Schedule.

30(*1*) Award of solatium. – (*i*) The collector having determined the total compensation to be paid, shall, to arrive at the final award, impose as "solatium" amount equivalent to one hundred per cent. of the compensation amount.

A meeting of committee, presided by the District Revenue Officer-cum-Land Acquisition Collector, Sonipat was held on 6-06-2016 at 4:00 PM, in the Office of District Revenue Officer-cum- Land Acquisition Collector, Sonipat, 1st floor, Mini Secretariat, Sonipat for fixation of the market rate of the land under acquisition. Keeping in view, the above said relevant provisions of New Act, 2013, the committee vide his letter endorsement No. 4789-90/Kgo LA, dated 13-06-2016 has supplied the market value/price/rate Rs. 35,00,000/- Per acre up to the depth of five acre from Kharkhoda to Delhi road and Rs. 30,00,000/- per acre for remaining land for every kind of land.

Keeping in view the location of land and all other factors, which are essential for determination of the market value, I award Rs. 35,00,000/- per acre up to depth of five acre from Kharkhoda to Delhi road and Rs. 30,00,000/- per acre for remaining land for every kind of land.

By applying the above-mentioned rate, the price of land under acquisition has been worked out as under:-

Class of Land Acquired	Area under Acquisition			Total
	Acre	Kanal	Marla	
CLASS'A' Nahri/Chahi/Gair Mumkin	0	0	3	65,625/-

Price of land according to Sub Section 1-A of section 23 of the land Acquisition Act, 1894.

The landowners and the interested persons will be entitled to 12% p.a. (33.23%) on the market value i.e. Rs.65,625/-, according to sub section 1-A of section 23 of the Act, which comes to Rs. 21,807/-.

The landowners and the interested persons will be entitled to 100% Solatium which is consideration of compulsory nature of acquisition on the total price of land i.e. Rs.65,625/- which comes to Rs. 65,625/-

It is pertinent to mention here that multiplier factor specified in the First Schedule of the New Act, 2013, has been notified 1.00 (One) by State Government vide notification no. 2331-R-5-2014/16094 dated 04-12-2014 for rural area.

That the supplementary award of tubewells, fruit trees, shadow trees & structure etc. will be announced separately.

POSSESSION OF LAND:

The possession of **0 Acre 0 Kanal 3 Marla.** land under acquisition has been delivered to the concerned Department i.e 30-09-2016 .

MODE OF PAYMENT

Payment will be made to the land owners according to the shares and rights as entitled in the last "Jamabandi". However, on account of death of any landowner, the compensation could be paid to the legal heirs of the deceased. In case of dispute, the compensation amount will be kept in the Bank till the contesting parties come to an amicable settlement or get dispute decided by a competent court of law. Similarly in the case of absence of a landowner, the compensation amount will be kept in the bank till the original payees turns up.

The acquired land will vest absolutely in the Government, free from all encumbrances with effect today, the 30-09-2016.

Subject to the above remarks, the award stands as follows:-

Sr. No.	Price	Amount	12% p.a (33.23%) u/s 23 (1&A)	100% Solatium	Total
1.	Price of Land	65,625/-	21,807/-	65,625/-	1,53,057/-

(Rupees One lacs Fifty three Thousand Fifty seven only)

Announced on 30-09-2016 at Mini Secretariat, sonipat, in the presence of persons interested and notice u/s 12 (2) of the Act be issued to those who are not present.

District Revenue Officer-cum
Land Acquisition Collector, Sonipat

Place:- Sonipat
Dated:-30-09-2016
Endst. No. 72-77 /Kgp LA Sonipat **Dated**

A copy of the above is forwarded to the following for information:-

1. Principle Secretary to Govt. of Haryana Industries Department, Chandigarh.
2. Director of Industries & Commerce, Haryana, Chandigarh.
3. Managing Director, Haryana State Infrastructure & Industries Development Corporation Ltd. Plot No. C 13-14, Sector-6, Panchkula.
4. Deputy Commissioner, Sonipat.
5. Senior Manager(IA), HSIIDC, Industrial Estate, Kundli, Tehsil & District Sonipat.
6. Tehsildar, Kharkhoda, he is requested to enter and sanction the mutation of land in favour of Haryana State (HSIIDC)

District Revenue Officer-cum
Land Acquisition Collector, Sonipat

DISTRICT SONIPAT

Award announced by Sh. Suresh Kumar, District Revenue Officer cum-Land Acquisition Collector, Sonipat

Award No. 13

Date of Award:- 30-09-2016

Village:- Sohati

In pursuance of the Govt. Notification No.-**2/16/2013-1IB-II, dated 24-12-2013,** published in Govt. Gazette dated **24-12-2013** u/s-4 of the Land Acquisition Act, 1894 (hereinafter referred to as the Act) and declared vide Notification No. **-2/16/2013-1IB-II, Dated 17-12-2014** u/s 6 of the Land Acquisition Act, 1894 thereinafter published in Govt. Gazette dated **17-12-2014** Total land acquired is **0 Acre 6 Kanal 0 Marla** at village **Sohati** Hadbast No. 14R Tehsil Kharkhoda District Sonipat at public expense, for a public purpose, namely, for the development of Industrial Modern Township Kharkhoda in Villages Gopalpur, Pipli, Saidpur, Kundal, Rampur, Firozpur, Banger, Nizampur Khurd, Sohati, Pahaladpur and Beerana, Tehsil Kharkhoda District Sonipat

MEASUREMENT

The area given in the Notification u/s 6 of the Land Acquisition Act, 1894 is **0 Acre 6 Kanal 0 Marla** While the Award has been announced of **0 Acre 6 Kanal 0 Marla** The land under acquisition lies in 1 fields as per detail given in form no. 1, prepared under paragraph 36 of the Financial Commissioner standing order no. 28. I agree with the classification of the basis of entries in the "*Jamabandi*" for the year **2010-11.**

Class of Land Acquired	Area Under Acquisition		
	Acre	Kanal	Marla
Nahri/Chahi/Gair Mumkin	**0**	**6**	**0**

The details of Khasra Nos. of the land under acquisition are as under:- 8/9min(6-0)

fields no. 1 measuring 0 Acre 6 Kanal 0 Marla.

The landowners and the interested persons have accepted the measurement and the classification of the land and no objection in this regard have been received from the Acquiring Department also.

COST OF LAND

In view of section 24 (a) of the Right to Fair Compensation and Transparency in Land Acquisition Rehabilitation and Resettlement Act, 2013 (for short New Act, 2013), "where no award u/s 11 of said land acquisition act has been made, then all provisions of this act relating to the determination of compensation shall apply." The notification u/s 4 & 6 of Land Acquisition Act, 1894 has already been issued as stated above, as such all provisions of New Act, 2013 shall apply for determination of compensation of acquired land.

The market value of acquired land is determined as per the provisions of section 26 & solatium is imposed as per section 30 of New Act, 2013, the relevant provisions of these section are extracted below : -

26 (*f*) The collector shall adopt the following criteria in assessing and determining the market value of the land, namely:-

(a) The Market value , if any, specified in the Indian Stamp Act, 1899 (2 of 1899) for the registration of sale deed or agreements to sell, as the case may be, in the area, where the land is situated; or

(b) The average sale price for similar type of land situated in the nearest village or nearest vicinity area; or

Whichever is higher.

Explanation 1.- The average sale price referred to in clause (b) shall be determined taking into account the sale deeds or the agreements to sell registered for similar type of area in the near village or near vicinity area during immediately preceding three years of the year in which such acquisition of land is proposed to be made.

Explanation 2.- For determining the average sale price referred to in Explanation 1., one-half of the total number of sale deeds or the agreements to sell in which the highest sale price has been mentioned shall be taken into account.

(*II*) The market value calculated as per sub section (*f*) shall be multiplied by a factor to be specified in the First Schedule.

30(*f*) Award of solatium. – (*f*) The collector having determined the total compensation to be paid, shall, to arrive at the final award, impose an "solatium" amount equivalent to one hundred per cent. of the compensation amount.

A meeting of committee, presided by the District Revenue Officer-cum-Land Acquisition Collector, Sonipat was held on 6-06-2016 at 4:00 PM, in the Office of District Revenue Officer-cum- Land Acquisition Collector, Sonipat, 1st floor, Mini Secretariat, Sonipat for fixation of the market rate of the land under acquisition. Keeping in view, the above said relevant provisions of New Act, 2013, the committee vide his letter endorsement No. 4789-90/Kgo LA, dated 13-06-2016 has supplied the market value/price/rate Rs. 35,00,000/- Per acre up to the depth of five acre from Kharkhoda to Delhi road and Rs. 30,00,000/- per acre for remaining land for every kind of land.

Keeping in view the location of land and all other factors, which are essential for determination of the market value, I award Rs. 35,00,000/- per acre up to depth of five acre from Kharkhoda to Delhi road and Rs. 30,00,000/- per acre for remaining land for every kind of land.

By applying the above-mentioned rate, the price of land under acquisition has been worked out as under:-

Class of Land Acquired	Area under Acquisition			Total
	Acre	Kanal	Marla	
Nahri/Chahi/Gair Mumkin	0	6	0	22,50,000/-

Price of land according to Sub Section 1-A of section 23 of the land Acquisition Act, 1894.

The landowners and the interested persons will be entitled to 12% p.a. (33.23%) on the market value i.e. Rs.**22,50,000/-**, according to sub section 1-A of section 23 of the Act, which comes to Rs. **7,47,675/-**.

The landowners and the interested persons will be entitled to 100% Solatium which is consideration of compulsory nature of acquisition on the total price of land i.e. Rs**22,50,000/-** which comes to Rs.**22,50,000/-**

It is pertinent to mention here that multiplier factor specified in the First Schedule of the New Act, 2013, has been notified 1.00 (One) by State Government vide notification no. 2331-R-5-2014/16094 dated 04-12-2014 for rural area.

That the supplementary award of tubewells, fruit trees, shadow trees & structure etc. will be announced separately.

POSSESSION OF LAND

The possession of **0 Acre 6 Kanal 0 Marla** land under acquisition has been delivered to the concerned Department i.e 30-09-2016 .

MODE OF PAYMENT

Payment will be made to the land owners according to the shares and rights as entitled in the last "Jamabandi". However, on account of death of any landowner, the compensation could be paid to the legal heirs of the deceased. In case of dispute, the compensation amount will be kept in the Bank till the concerning parties come to an amicable settlement or get dispute decided by a competent court of law. Similarly in the case of absence of a landowner, the compensation amount will be kept in the bank till the original payees turns up.

The acquired land will vest absolutely in the Government, free from all encumbrances with effect today, the 30-09-2016.

Subject to the above remarks, the award stands as follows:-

Sr. No.	Price	Amount	12% p.a (33.23%) u/s 23 (1&A)	100% Solatium	Total
1.	Price of Land	22,50,000/-	7,47,675/-	22,50,000/-	52,47,675/-

(Rupees Fifty two lac Forty seven thousand six hundred seventy five only)

Announced on **30-09-2016** at Mini Secretariat, sonipat. in the presence of persons interested and notice u/s 12 (2) of the Act be issued to those who are not present.

District Revenue Officer-cum
Land Acquisition Collector, Sonipat

Place:- Sonipat
Dated:-30-09-2016

Endst. No. 78-83 **/Kgo LA Sonipat** **Dated** 30/09/2016

A copy of the above is forwarded to the following for information:-

1. Principal Secretary to Govt. of Haryana Industries Department, Chandigarh.
2. Director of Industries & Commerce, Haryana, Chandigarh.
3. Managing Director, Haryana State Infrastructure & Industries Development Corporation Ltd. Plot No. C 13-14, Sector-6, Panchkula.
4. Deputy Commissioner, Sonipat.
5. Senior Manager(IA), HSIIDC, Industrial Estate, Kundli, Tehsil & District Sonipat.
6. Tehsildar, Kharkhoda, he is requested to enter and section the mutation of land in favour of Haryana State (HSIIDC)

District Revenue Officer-cum
Land Acquisition Collector, Sonipat

DISTRICT SONIPAT

Award announced by Sh. Suresh Kumar, District Revenue Officer cum-Land Acquisition Collector, Sonipat

Award No. 14

Date of Award:- 30-09-2016

Village:- Firozpur Bangar

In pursuance of the Govt. Notification No.-**2/16/2013-IIB-II, dated 24-12-2013,** published in Govt. Gazette dated **24-12-2013** u/s-4 of the Land Acquisition Act, 1894 (hereinafter referred to as the Act) and declared vide Notification No. **-2/16/2013-IIB-II, Dated 17-12-2014** u/s 6 of the Land Acquisition Act, 1894 thereinafter published in Govt. Gazette dated **17-12-2014** Total land acquired is **0 Acre 0 Kanal 18 Marla** at village **Firozpur Bangar** Hadbast No. 237 Tehsil Kharkhoda District Sonipat at public expense, for a public purpose, namely, for the development of Industrial Modern Township Kharkhoda in Villages Gopalpur, Pipli, Saidpur, Kundal, Rampur, Firozpur, Bangar, Nizampur Khurd, Sohati, Pahladpur and Berana, Tehsil Kharkhoda District Sonipat

MEASUREMENT

The area given in the Notification u/s 6 of the Land Acquisition Act, 1894 is **0 Acre 0 Kanal 18 Marla** While the Award has been announced of **0 Acre 0 Kanal 18 Marla** The land under acquisition lies in **1** fields as per detail given in form no. 1, prepared under paragraph 36 of the Financial Commissioner standing order no. 28. I agree with the classification of the basis of entries in the "Jamabandi" for the year **2010-11.**

Class of Land Acquired	Area Under Acquisition		
	Acre	**Kanal**	**Marla**
Nahri/Chahi	**0**	**0**	**18**

The details of Khasra Nos. of the land under acquisition are as under:- 69 (0-18) **fields no. 1 measuring 0 Acre 0 Kanal 18 Marla.**

The landowners and the interested persons have accepted the measurement and the classification of the land and no objection in this regard have been received from the Acquiring Department also.

COST OF LAND

In view of section 24 (a) of the Right to Fair Compensation and Transparency in Land Acquisition Rehabilitation and Resettlement Act, 2013 (for short New Act, 2013), "where no award u/s 11 of said land acquisition act has been made, then all provisions of this act relating to the determination of compensation shall apply." The notification u/s 4 & 6 of Land Acquisition Act, 1894 has already been issued as stated above, as such all provisions of New Act, 2013 shall apply for determination of compensation of acquired land.

The market value of acquired land is determined as per the provisions of section 26 & solatium is imposed as per section 30 of New Act, 2013, the relevant provisions of these section are extracted below : -

26 (*1*) The collector shall adopt the following criteria in assessing and determining the market value of the land, namely:-

(a) The Market value , if any, specified in the Indian Stamp Act, 1899 (2 of 1899) for the registration of sale deed or agreements to sell, as the case may be, in the area, where the land is situated; or

(b) The average sale price for similar type of land situated in the nearest village or nearest vicinity area; or

Whichever is higher.

Explanation 1.- The average sale price referred to in clause (b) shall be determined taking into account the sale deeds or the agreements to sell registered for similar type of area in the near village or near vicinity area during immediately preceding three years of the year in which such acquisition of land is proposed to be made.

Explanation 2.- For determining the average sale price referred to in Explanation 1., one-half of the total number of sale deeds or the agreements to sell in which the highest sale price has been mentioned shall be taken into account.

(*ii*) The market value calculated as per sub section (*i*) shall be multiplied by a factor to be specified in the First Schedule.

30(*1*) Award of solatium. – (*1*) The collector having determined the total compensation to be paid, shall, to arrive at the final award, impose as "solatium" amount equivalent to one hundred per cent. of the compensation amount.

A meeting of committee, presided by the District Revenue Officer-cum-Land Acquisition Collector, Sonipat was held on 6-06-2016 at 4:00 PM, in the Office of District Revenue Officer-cum- Land Acquisition Collector, Sonipat, 1st floor, Mini Secretariat, Sonipat for fixation of the market rate of the land under acquisition. Keeping in view, the above said relevant provisions of New Act, 2013, the committee vide his letter endorsement No. 4789-90/Kgo LA, dated 13-06-2016 has supplied the market value/price/rate Rs. 35,00,000/- Per acre up to the depth of five acre from Kharkhoda to Delhi road and Rs. 30,00,000/- per acre for remaining land for every kind of land.

Keeping in view the location of land and all other factors, which are essential for determination of the market value, I award Rs. 35,00,000/- per acre up to depth of five acre from Kharkhoda to Delhi road and Rs. 30,00,000/- per acre for remaining land for every kind of land.

By applying the above-mentioned rate, the price of land under acquisition has been worked out as under:-

Class of Land Acquired	Area under Acquisition			Total
Class'A'	Acre	Kanal	Marla	
Nahri/Chahi	0	0	18	3,93,750/-

Price of land according to Sub Section 1-A of section 23 of the land Acquisition Act, 1894.

The landowners and the interested persons will be entitled to 12% p.a. (33.23%) on the market value i.e. Rs.3,93,750/- according to sub section 1-A of section 23 of the Act, which comes to Rs. 1,30,843/-.

The landowners and the interested persons will be entitled to 100% Solatium which is consideration of compulsory nature of acquisition on the total price of land i.e. Rs 3,93,750/- which comes to Rs. 3,93,750/-.

It is pertinent to mention here that multiplier factor specified in the First Schedule of the New Act, 2013, has been notified 1.00 (One) by State Government vide notification no. 2331-R-5-2014/16094 dated 04-12-2014 for rural area.

That the supplementary award of tube wells, fruit trees, shadow trees & structure etc. will be announced separately.

POSSESSION OF LAND

The possession of **0 Acre 0 Kanal 18 Marla.** land under acquisition has been delivered to the concerned Department i.e 30-09-2016 .

MODE OF PAYMENT

Payment will be made to the land owners according to the shares and rights as entitled in the last "Jamabandi". However, on account of death of any landowner, the compensation could be paid to the legal heirs of the deceased. In case of dispute, the compensation amount will be kept in the Bank till the contesting parties come to an amicable settlement or get dispute decided by a competent court of law. Similarly in the case of absence of a landowner, the compensation amount will be kept in the bank till the original payees turns up.

The acquired land will vest absolutely in the Government, free from all encumbrances with effect today, the 30-09-2016.

Subject to the above remarks, the award stands as follows:-

Sr. No.	Price	Amount	12% p.a (33.23%) u/s 23 (1&A)	100% Solatium	Total
1.	Price of Land	3,93,750/-	1,30,843/-	3,93,750/-	9,18,343/-

(Rupees Nine lacs Eighteen Thousand three hundred forty three only)

Announced on 30-09-2016 at Mini Secretariat, sonipat, in the presence of persons interested and notice u/s 12 (2) of the Act be issued to those who are not present.

District Revenue Officer-cum
Land Acquisition Collector, Sonipat

Place:- Sonipat
Dated:-30-09-2016

Endst. No. 84-87 **/Kgo LA Sonipat** **Dated** 30/9/2016

A copy of the above is forwarded to the following for information:-

1. Principal Secretary to Govt. of Haryana Industries Department, Chandigarh.
2. Director of Industries & Commerce, Haryana, Chandigarh.
3. Managing Director, Haryana State Infrastructure & Industries Development Corporation Ltd. Plot No. C 13-14, Sector-6, Panchkula.
4. Deputy Commissioner, Sonipat.
5. Senior Manager(IA), HSIIDC, Industrial Estate, Kundli, Tehsil & District Sonipat.
6. Tehsildar, Kharkhoda, he is requested to enter and section the mutation of land in favour of Haryana State (HSIIDC)

District Revenue Officer-cum
Land Acquisition Collector, Sonipat

DISTRICT SONIPAT

Award announced by Sh. Suresh Kumar, District Revenue Officer cum-Land Acquisition Collector, Sonipat

Award No. 15

Date of Award:- 30-09-2016

Village:- Nizampur Khurd

In pursuance of the Govt. Notification No.-**2/16/2013-IIB-II, dated 24-12-2013,** published in Govt. Gazette dated **24-12-2013** u/s-4 of the Land Acquisition Act, 1894 (hereinafter referred to as the Act) and declared vide Notification No. -**2/16/2013-IIB-II, Dated 17-12-2014** u/s 6 of the Land Acquisition Act, 1894 thereinafter published in Govt. Gazette dated **17-12-2014** Total land acquired is **0 Acre 7 Kanal 10 Marla** at village **Nizampur Khurd** Hadbast No. 238 Tehsil Kharkhoda District Sonipat at public expense, for a public purpose, namely, for the development of Industrial Modern Township Kharkhoda in Villages Gopalpur, Pipli, Saidpur, Kurdial, Rampur, Firozpur, Banger, Nizampur Khurd, Sohati, Pahladpur and Borana, Tehsil Kharkhoda District Sonipat

MEASUREMENT

The area given in the Notification u/s 6 of the Land Acquisition Act, 1894 is **0 Acre 7 Kanal 11 Marla** While the Award has been announced of **0 Acre 7 Kanal 10 Marla.** The Differences of 1 Marla is due to clerical mistake. The land under acquisition lies in **5** fields as per detail given in form no. 1, prepared under paragraph 36 of the Financial Commissioner standing order no. 28. I agree with the classification of the basis of entries in the "Jamabandi" for the year **2011-12.**

Class of Land Acquired	Area Under Acquisition		
	Acre	Kanal	Marla
Nahri/Chahi/Gair Mumkin	**0**	**7**	**10**

The details of Khasra Nos. of the land under acquisition are as under:- 11/9/1(0-18), 13/4/2(5-7), 17/21/3/2(0-14), 137/1/1(0-5), 1/2(0-6) **fields no. 5 measuring 0 Acre 7 Kanal 10 Marla.**

The landowners and the interested persons have accepted the measurement and the classification of the land and no objection in this regard have been received from the Acquiring Department also.

COST OF LAND

In view of section 24 (a) of the Right to Fair Compensation and Transparency in Land Acquisition Rehabilitation and Resettlement Act, 2013 (for short New Act, 2013), "where no award u/s 11 of said land acquisition act has been made, then all provisions of this act relating to the determination of compensation shall apply." The notification u/s 4 & 6 of Land Acquisition Act, 1894 has already been issued as stated above, as such all provisions of New Act, 2013 shall apply for determination of compensation of acquired land.

The market value of acquired land is determined as per the provisions of section 26 & solatium is imposed as per section 30 of New Act, 2013, the relevant provisions of these section are extracted below : -

26(*1*) The collector shall adopt the following criteria in assessing and determining the market value of the land, namely:-

(a) The Market value , if any, specified in the Indian Stamp Act, 1899 (2 of 1899) for the registration of sale deed or agreements to sell, as the case may be, in the area, where the land is situated; or

(b) The average sale price for similar type of land situated in the nearest village or nearest vicinity area; or

Whichever is higher.

Explanation 1.- The average sale price referred to in clause (b) shall be determined taking into account the sale deeds or the agreements to sell registered for similar type of area in the near village or near vicinity area during immediately preceding three years of the year in which such acquisition of land is proposed to be made.

Explanation 2.- For determining the average sale price referred to in Explanation 1., one-half of the total number of sale deeds or the agreements to sell in which the highest sale price has been mentioned shall be taken into account.

(*ii*) The market value calculated as per sub section (*i*) shall be multiplied by a factor to be specified in the First Schedule.

30(*1*) Award of solatium. – (*1*) The collector having determined the total compensation to be paid, shall, to arrive at the final award, impose as "solatium" amount equivalent to one hundred per cent. of the compensation amount.

A meeting of committee, presided by the District Revenue Officer-cum-Land Acquisition Collector, Sonipat was held on 6-06-2016 at 4:00 PM, in the Office of District Revenue Officer-cum- Land Acquisition Collector, Sonipat, 1st floor, Mini Secretariat, Sonipat for fixation of the market rate of the land under acquisition. Keeping in view, the above said relevant provisions of New Act, 2013, the committee vide his letter endorsement No. 4789-90/Kgo LA, dated 13-06-2016 has supplied the market value/price/rate Rs. 35,00,000/- Per acre up to the depth of five acre from Kharkhoda to Delhi road and Rs. 30,00,000/- per acre for remaining land for every kind of land.

Keeping in view the location of land and all other factors, which are essential for determination of the market value, I award Rs. 35,00,000/- per acre up to depth of five acre from Kharkhoda to Delhi road and Rs. 30,00,000/- per acre for remaining land for every kind of land.

By applying the above-mentioned rate, the price of land under acquisition has been worked out as under:-

Class of Land Acquired	Area under Acquisition			Total
	Acre	Kanal	Marla	
Nahri/Chahi/Gair Mumkin	0	7	10	28,12,500/-

Price of land according to Sub Section 1-A of section 23 of the land Acquisition Act, 1894.

The landowners and the interested persons will be entitled to 12% p.a. (33.23%) on the market value i.e. Rs. **28,12,500**/- according to sub section 1-A of section 23 of the Act, which comes to Rs. 934594/-.

The landowners and the interested persons will be entitled to 100% Solatium which is consideration of compulsory nature of acquisition on the total price of land i.e. Rs **28,12,500**/- which comes to Rs. **28,12,500**/-

It is pertinent to mention here that multiplier factor specified in the First Schedule of the New Act, 2013, has been notified 1.00 (One) by State Government vide notification no. 2331-R-5-2014/16094 dated 04-12-2014 for rural area.

That the supplementary award of tubewells, fruit trees, shadow trees & structure etc. will be announced separately.

POSSESSION OF LAND

The possession of **0 Acre 7 Kanal 10 Marla**, land under acquisition has been delivered to the concerned Department i.e 30-09-2016 .

MODE OF PAYMENT

Payment will be made to the land owners according to the shares and rights as entitled in the last "Jamabandi". However, on account of death of any landowner, the compensation could be paid to the legal heirs of the deceased. In case of dispute, the compensation amount will be kept in the Bank till the contesting parties come to an amicable settlement or get dispute decided by a competent court of law. Similarly in the case of absence of a landowner, the compensation amount will be kept in the bank till the original payees turn up.

The acquired land will vest absolutely in the Government, free from all encumbrances with effect today, the 30-09-2016.

Subject to the above remarks, the award stands as follows:-

Sr. No.	Price	Amount	12% p.a (33.23%) u/s 23 (1A)	100% Solatium	Total
1.	Price of Land	28,12,500/-	9,34,594/-	28,12,500/-	65,59,594/-

(Rupees Sixty five lacs fifty Nine thousand five hundred ninety four only)

Announced on 30-09-2016 at Mini Secretariat, sonipat, in the presence of persons interested and notice u/s 12 (2) of the Act be issued to those who are not present.

District Revenue Officer-cum
Land Acquisition Collector, Sonipat

Place:- Sonipat

Dated:-30-09-2016

Endst. No. 9345 /Kpo LA Sonipat **Dated** 30/09/2016

A copy of the above is forwarded to the following for information:-

1. Principal Secretary to Govt. of Haryana Industries Department, Chandigarh.
2. Director of Industries & Commerce, Haryana, Chandigarh.
3. Managing Director, Haryana State Infrastructure & Industries Development Corporation Ltd. Plot No. C 13-14, Sector-6, Panchkula.
4. Deputy Commissioner, Sonipat.
5. Senior Manager(IA), HSIIDC, Industrial Estate, Kundli, Tehsil & District Sonipat.
6. Tehsildar, Kharkhoda, he is requested to enter and section the mutation of land in favour of Haryana State (HSIIDC)

District Revenue Officer-cum
Land Acquisition Collector, Sonipat

DISTRICT SONIPAT

Award announced by Sh. Suresh Kumar, District Revenue Officer cum-Land Acquisition Collector, Sonipat

Award No. 16

Date of Award:- 30-09-2016

Village:- Pahladpur

In pursuance of the Govt. Notification No.-**2/16/2013-1IB-II, dated 24-12-2013,** published in Govt. Gazette dated **24-12-2013** u/s-4 of the Land Acquisition Act, 1894 (hereinafter referred to as the Act) and declared vide Notification No. **-2/16/2013-1IB-II, Dated 17-12-2014** u/s 6 of the Land Acquisition Act, 1894 thereinafter published in Govt. Gazette dated **17-12-2014** Total land acquired is **0 Acre 0 Kanal 18 Marla** in village **Pahladpur** Hadbast No. 15 Tehsil Kharkhoda District Sonipat at public expense, for a public purpose, namely, for the development of Industrial Modern Township Kharkhoda in Villages Gopalpur, Pipli, Saidpur, Kundal, Rampur, Firozpur, Bangar, Nizampur Khurd, Sohari, Pahladpur and Borana, Tehsil Kharkhoda District Sonipat

MEASUREMENT

The area given in the Notification u/s 6 of the Land Acquisition Act, 1894 is **0 Acre 0 Kanal 18 Marla** While the Award has been announced of **0 Acre 0 Kanal 18 Marla**. The land under acquisition lies in 2 fields as per detail given in form no. 1, prepared under paragraph 36 of the Financial Commissioner standing order no. 28. I agree with the classification of the basis of entries in the "Jamabandi" for the year **2013-14.**

Class of Land Acquired	Area Under Acquisition		
	Acre	Kanal	Marla
Nahri/Chahi/Gair Mumkin	**0**	**0**	**18**

The details of Khasra Nos. of the land under acquisition are as under:- 28//11/3min(0-8), 28/12min (0-10) **fields no. 2 measuring 0 Acre 0 Kanal 18 Marla.**

The landowners and the interested persons have accepted the measurement and the classification of the land and no objection in this regard have been received from the Acquiring Department also.

COST OF LAND

In view of section 24 (a) of the Right to Fair Compensation and Transparency in Land Acquisition Rehabilitation and Resettlement Act, 2013 (for short New Act, 2013), "where no award u/s 11 of said land acquisition act has been made, then all provisions of this act relating to the determination of compensation shall apply." The notification u/s 4 & 6 of Land Acquisition Act, 1894 has already been issued as stated above, as such all provisions of New Act, 2013 shall apply for determination of compensation of acquired land.

The market value of acquired land is determined as per the provisions of section 26 & solatium is imposed as per section 30 of New Act, 2013, the relevant provisions of these section are extracted below : -

26(*1*) The collector shall adopt the following criteria in assessing and determining the market value of the land, namely:-

(a) The Market value , if any, specified in the Indian Stamp Act, 1899 (2 of 1899) for the registration of sale deed or agreements to sell, as the case may be, in the area, where the land is situated; or

(b) The average sale price for similar type of land situated in the nearest village or nearest vicinity area; or

Whichever is higher.

Explanation 1.- The average sale price referred to in clause (b) shall be determined taking into account the sale deeds or the agreements to sell registered for similar type of area in the near village or near vicinity area during immediately preceding three years of the year in which such acquisition of land is proposed to be made.

Explanation 2.- For determining the average sale price referred to in Explanation 1., one-half of the total number of sale deeds or the agreements to sell in which the highest sale price has been mentioned shall be taken into account.

(*II*) The market value calculated as per sub section (*I*) shall be multiplied by a factor to be specified in the First Schedule.

30(*1*) Award of solatium. – (*I*) The collector having determined the total compensation to be paid, shall, to arrive at the final award, impose an "solatium" amount equivalent to one hundred per cent. of the compensation amount.

A meeting of committee, presided by the District Revenue Officer-cum-Land Acquisition Collector, Sonipat was held on 6-06-2016 at 4:00 PM, in the Office of District Revenue Officer-cum- Land Acquisition Collector, Sonipat, 1st floor, Mini Secretariat, Sonipat for fixation of the market rate of the land under acquisition. Keeping in view, the above said relevant provisions of New Act, 2013, the committee vide his letter endorsement No. 4789-90/Kgo LA, dated 13-06-2016 has supplied the market value/price/rate Rs. 35,00,000/- Per acre up to the depth of five acre from Kharkhoda to Delhi road and Rs. 30,00,000/- per acre for remaining land for every kind of land.

Keeping in view the location of land and all other factors, which are essential for determination of the market value, I award Rs. 35,00,000/- per acre up to depth of five acre from Kharkhoda to Delhi road and Rs. 30,00,000/- per acre for remaining land for every kind of land.

By applying the above-mentioned rate, the price of land under acquisition has been worked out as under:-

Class of Land Acquired	Area under Acquisition			Total
	Acre	Kanal	Marla	
Nahri/Chahi/Gair Mumkin	0	0	18	3,37,500/-

Price of land according to Sub Section 1-A of section 23 of the land Acquisition Act, 1894.

The landowners and the interested persons will be entitled to 12% p.a. (33.23%) on the market value i.e. Rs. 3,37,500/- according to sub section 1-A of section 23 of the Act, which comes to Rs. 1,12,151/-.

The landowners and the interested persons will be entitled to 100% Solatium which is consideration of compulsory nature of acquisition on the total price of land i.e. Rs 3,37,500/- which comes to Rs. 3,37,500/-

It is pertinent to mention here that multiplier factor specified in the First Schedule of the New Act, 2013, has been notified 1.00 (One) by State Government vide notification no. 2331-R-5-2014/16094 dated 04-12-2014 for rural area.

That the supplementary award of tubewells, fruit trees, shadow trees & structure etc. will be announced separately.

POSSESSION OF LAND

The possession of **0 Acre 0 Kanal 18 Marla.** land under acquisition has been delivered to the concerned Department i.e 30-09-2016 .

MODE OF PAYMENT

Payment will be made to the land owners according to the shares and rights as entitled in the last "Jamabandi". However, on account of death of any landowner, the compensation could be paid to the legal heirs of the deceased. In case of dispute, the compensation amount will be kept in the Bank till the contesting parties come to an amicable settlement or get dispute decided by a competent court of law. Similarly in the case of absence of a landowner, the compensation amount will be kept in the bank till the original payees turn up.

The acquired land will vest absolutely in the Government, free from all encumbrances with effect today, the 30-09-2016.

Subject to the above remarks, the award stands as follows:-

Sr. No.	Price	Amount	12% p.a (33.23%) u/s 23 (1&A)	100% Solatium	Total
1.	Price of Land	3,37,500	1,12,151	3,37,500	7,87,151/-

(Rupees Seven lacs eighty seven thousand One hundred Fifty one only)

Announced on **30-09-2016** at Mini Secretariat, sonipat in the presence of persons interested and notice u/s 12 (2) of the Act be issued to those who are not present.

District Revenue Officer-cum
Land Acquisition Collector, Sonipat

Place:- Sonipat
Dated:-30-09-2016

Endst. No. 96-101 **/Kgo LA Sonipat** **Dated** 30/9/2016

A copy of the above is forwarded to the following for information:-

1. Principal Secretary to Govt. of Haryana Industries Department, Chandigarh.
2. Director of Industries & Commerce, Haryana, Chandigarh.
3. Managing Director, Haryana State Infrastructure & Industries Development Corporation Ltd. Plot No. C 13-14, Sector-6, Panchkula.
4. Deputy Commissioner, Sonipat.
5. Senior Manager(IA), HSIIDC, Industrial Estate, Kundli, Tehsil & District Sonipat.
6. Tehsildar, Kharkhoda, he is requested to enter and section the mutation of land in favour of Haryana State (HSIIDC)

District Revenue Officer-cum
Land Acquisition Collector, Sonipat

DISTRICT SONIPAT

Award announced by Sh. Suresh Kumar, District Revenue Officer cum-Land Acquisition Collector, Sonipat.

Award No. 17

Date of Award:- 30-09-2016

Village:- Gopalpur

In pursuance of the Govt. Notification No.-**2/16/2013-1IB-II, dated 24-12-2013,** published in Govt. Gazette dated **24-12-2013** u/s-4 of the Land Acquisition Act, 1894 (hereinafter referred to as the Act) and declared vide Notification No. **-2/16/2013-1IB-II, Dated 17-12-2014** u/s 6 of the Land Acquisition Act, 1894 thereinafter published in Govt. Gazette dated **17-12-2014** Total land acquired is **0 Acre 1 Kanal 13 Marla** at village **Gopalpur** Hadbast No. 13 R Tehsil Kharkhoda District Sonipat at public expense, for a public purpose, namely, for the development of Industrial Modern Township Kharkhoda in Villages Gopalpur, Pipli, Saidpur, Kundal, Rampur, Firozpur, Banger, Nizampur Khurd, Sohani, Pahladpur and Borana, Tehsil Kharkhoda District Sonipat

MEASUREMENT

The area given in the Notification u/s 6 of the Land Acquisition Act, 1894 is **0 Acre 01 Kanal 13 Marla** While the Award has been announced of **0 Acre 1 Kanal 13 Marla** The land under acquisition lies in **6** fields as per detail given in form no. 1, prepared under paragraph 36 of the Financial Commissioner standing order no. 28. I agree with the classification of the basis of entries in the "Jamabandi" for the year **2011-12.**

Class of Land Acquired	Area Under Acquisition		
	Acre	Kanal	Marla
Nahri/Chahi/Gair Mumkin	**0**	**1**	**13**

The details of Khasra Nos. of the land under acquisition are as under:- 62/20/2min(0-10), 88/16(0-3), 46/17/1(0-5), 23/1/2(0-7), 46/24/2(0-7), 8/1/7/8(0-1) fields no.6 measuring **0 Acre 1 Kanal 13 Marla.**

The landowners and the interested persons have accepted the measurement and the classification of the land and no objection in this regard have been received from the Acquiring Department also.

COST OF LAND

In view of section 24 (a) of the Right to Fair Compensation and Transparency in Land Acquisition Rehabilitation and Resettlement Act, 2013 (for short New Act, 2013), "where no award u/s 11 of said land acquisition act has been made, then all provisions of this act relating to the determination of compensation shall apply." The notification u/s 4 & 6 of Land Acquisition Act, 1894 has already been issued as stated above, as such all provisions of New Act, 2013 shall apply for determination of compensation of acquired land.

The market value of acquired land is determined as per the provisions of section 26 & solatium is imposed as per section 30 of New Act, 2013, the relevant provisions of these section are extracted below : -

26(*1*) The collector shall adopt the following criteria in assessing and determining the market value of the land, namely:-

(a) The Market value , if any, specified in the Indian Stamp Act, 1899 (2 of 1899) for the registration of sale deed or agreements to sell, as the case may be, in the area, where the land is situated; or

(b) The average sale price for similar type of land situated in the nearest village or nearest vicinity area; or

Whichever is higher.

Explanation 1.- The average sale price referred to in clause (b) shall be determined taking into account the sale deeds or the agreements to sell registered for similar type of area in the near village or near vicinity area during immediately preceding three years of the year in which such acquisition of land is proposed to be made.

Explanation 2.- For determining the average sale price referred to in Explanation 1., one-half of the total number of sale deeds or the agreements to sell in which the highest sale price has been mentioned shall be taken into account.

(*II*) The market value calculated as per sub section (*I*) shall be multiplied by a factor to be specified in the First Schedule.

30(*1*) Award of solatium. – (*1*) The collector having determined the total compensation to be paid, shall, to arrive at the final award, impose as "solatium" amount equivalent to one hundred per cent. of the compensation amount.

A meeting of committee, presided by the District Revenue Officer-cum- Land Acquisition Collector, Sonipat was held on 6-06-2016 at 4.00 PM, in the Office of District Revenue Officer-cum- Land Acquisition Collector, Sonipat, 1st floor, Mini Secretariat, Sonipat for fixation of the market rate of the land under acquisition. Keeping in view, the above said relevant provisions of New Act, 2013, the committee vide his letter endorsement No. 4789-90/Kpo LA, dated 13-06-2016 has supplied the market value/price/rate Rs. 35,00,000/- Per acre up to the depth of five acre from Kharkhoda to Delhi road and Rs. 30,00,000/- per acre for remaining land for every kind of land.

Keeping in view the location of land and all other factors, which are essential for determination of the market value, I award Rs. 35,00,000/- per acre up to depth of five acre from Kharkhoda to Delhi road and Rs. 30,00,000/- per acre for remaining land for every kind of land.

By applying the above-mentioned rate, the price of land under acquisition has been worked out as under:-

Class of Land Acquired	Area under Acquisition			Total
	Acre	Kanal	Marla	
Nahri/Chahi/Gair Mumkin	0	1	13	6,18,750/-

Price of land according to Sub Section 1-A of section 23 of the land Acquisition Act, 1894.

The landowners and the interested persons will be entitled to 12% p.a. (33.23%) on the market value i.e. Rs. 6,18,750/- according to sub section 1-A of section 23 of the Act, which comes to Rs. 2,05,610/-.

The landowners and the interested persons will be entitled to 100% Solatium which is consideration of compulsory nature of acquisition on the total price of land i.e. Rs 6,18,750/- which comes to Rs. 6,18,750/-

It is pertinent to mention here that multiplier factor specified in the First Schedule of the New Act, 2013, has been notified 1.00 (One) by State Government vide notification no. 2331-R-5-2014/16094 dated 04-12-2014 for rural area.

That the supplementary award of tubewells, fruit trees, shadow trees & structure etc. will be announced separately.

POSSESSION OF LAND

The possession of **0 Acre 1 Kanal 13 Marla.** land under acquisition has been delivered to the concerned Department i.e 30-09-2016 .

MODE OF PAYMENT

Payment will be made to the land owners according to the shares and rights as entitled in the last "Jamabandi". However, on account of death of any landowner, the compensation could be paid to the legal heirs of the deceased. In case of dispute, the compensation amount will be kept in the Bank till the contesting parties come to an amicable settlement or get dispute decided by a competent court of law. Similarly in the case of absence of a landowner, the compensation amount will be kept in the bank till the original payees turn up.

The acquired land will vest absolutely in the Government, free from all encumbrances with effect today, the 30-09-2016.

Subject to the above remarks, the award stands as follows:-

Sr. No.	Price	Amount	12% p.a (33.23%) u/s 23 (1&A)	100% Solatium	Total
1.	Price of Land	6,18,750/-	2,05,610/-	6,18,750/-	14,43,110/-

(Rupees Fourteen lacs forty three thousand one hundred Ten only)

Announced on **30-09-2016** at Mini Secretariat, sonipat. in the presence of persons interested and notice u/s 12 (2) of the Act be issued to those who are not present.

District Revenue Officer-cum
Land Acquisition Collector, Sonipat

Place:- Sonipat
Dated:-30-09-2016

Endst. No. 682-97 **/Kgo LA Sonipat** **Dated** 30/09/2016

A copy of the above is forwarded to the following for information:-

1. Principal Secretary to Govt. of Haryana Industries Department, Chandigarh.
2. Director of Industries & Commerce, Haryana, Chandigarh.
3. Managing Director, Haryana State Infrastructure & Industries Development Corporation Ltd. Plot No. C 13-14, Sector-6, Panchkula.
4. Deputy Commissioner, Sonipat.
5. Senior Manager(IA), HSIIDC, Industrial Estate, Kundli, Tehsil & District Sonipat.
6. Tehsildar, Kharkhoda, he is requested to enter and section the mutation of land in favour of Haryana State (HSIIDC)

District Revenue Officer-cum
Land Acquisition Collector, Sonipat

DISTRICT SONIPAT

Award announced by Sh. Suresh Kumar, District Revenue Officer-Cum- Land Acquisition Collector, Sonipat.

Award No. –44

Date of Award: - 13-03-2013

Village:- Barona

In pursuance of the Govt. Notification No. 2/14-1IB-112010, dated 1-04-2010, published in Govt. Gazette dated 1-04-2010 U/s-4 of the Land Acquisition Act, 1894 (hereinafter referred to as the Act) and declared vide Notification No. 2/14-1IB-II-2010, dated 4-04-2011 U/s-6 of the Land Acquisition Act, 1894 thereinafter published in Govt. Gazette dated 4-04-2011 Total Land Acquired is **72 Acre 1 Kanal 4 Marla** at **Village Barona** Hadbast No. **R-22** Tehsil Kharkhoda District Sonipat at public expense, for a public purpose, namely, for the Development of industrial modern township in the revenue estate of villages Gopal pur, Pipli, Saidpur, Kurchal, Rampur, Firozpur, Ratger, Nizampur Khurd, Soholi, Pahladpur and Barona Tehsil Kharkhoda District Sonipat.

MEASUREMENT

The area given in the Notification U/s 6 of the Land Acquisition Act, 1894 is 74 Acre 8 Kanal 10 Marla, while the award has been announced of **72 Acre 1 Kanal 4 Marla**. The difference of 1 Acre 7 Kanal 6 Marla is due to clerical mistake. The Land under acquisition lie in **fields No. 131** as per detail given in form No. 1, prepared under paragraph no. 36 of the Financial Commissioner standing order No. 28. I agree with the classification of the soils of fields as in the "Jamabandi" for the year **2007-08.**

Class of Land Acquired	Area under Acquisition		
	Acre	Kanal	Marla
Nahri/Chahi/Gair Mumkin/Barani	72	1	4

The details of Khasra Nos. of the land under acquisition are as under. - 95/2/2/2 (1-19) 96/4/2/2 (0-5), 7/1 (9-14), 8/1/1 (2-16), 12/2 (3-12), 13/2 (5-18), 18 (5-8), 19/1 (4-0), 19/2/1 (3-15), 20/1 (2-4), 21/2 (7-13), 22 (8-0), 23 (7-19), 24 (1-3), 97/20 (0-9), 98/1 (7-11), 2 (7-19), 3 (8-0), 4 (6-4), 6 (2-16), 7/1 (7-4), 7/2 (0-16), 8/1 (6-4), 8/2 (0-2), 8/3 (8-14), 9/1 (4-7), 9/2 (7-4), 10 (8-0), 11 (8-0), 12/1 (2-18), 12/2 (5-2), 13/1 (2-0), 13/2 (2-4), 13/3 (3-12), 14/1 (4-4), 14/2 (3-16), 15 (5-4), 16 (7-18), 17 (7-11), 18 (7-4), 19 (7-11), 20/1 (0-8), 20/2 (7-4), 21/1 (2-18), 21/2 (3-2), 22/1 (4-0), 22/2 (4-0), 23 (7-19), 24 (8-0), 25 (4-6), 99/04/2 (1-6), 5/2 (7-2), 6/1 (5-3), 6/2 (2-9), 6/3 (0-9), 7/1 (9-14), 8/1 (1-6), 12/1/2 (0-8), 12/2/2 (0-16), 13/2 (7-5), 14 (7-12), 15/1 (2-18), 15/2 (3-2), 16/1 (2-17), 16/2 (5-14), 17/1 (4-8), 17/2 (2-16), 18/1/1 (0-3), 18/1/2 (4-8), 18/2 (7-4), 19/1 (7-7), 20/1 (1-0), 21/2/1 (7-9), 21/2/2 (3-10), 22/1 (4-0), 22/2 (4-0), 23/1 (2-9), 23/2 (5-11), 24/1 (3-16), 28/1 (3-6), 29/

(2-2), 25/1/2 (1-5), 25/2 (4-13), 105/1 (7-11), 2 (7-11), 3 (7-11), 4/1 (4-4), 4/2 (3-8), 5 (8-0), 6 (7-11), 7 (7-4), 8/1 (4-12), 8/2 (3-8), 9/1 (3-4), 9/2 (4-16), 13/1 (3-8), 13/2 (4-12), 14 (7-12), 15/1 (4-8), 15/2 (3-12), 16 (8-0), 17/1 (3-8), 17/2 (4-12), 24 (3-7), 25 (6-9), 106/1 (8-0), 2 (8-0), 3 (8-0), 4/1/1 (4-10), 4/1/2 (1-4), 4/2 (0-16), 7 (1-18), 8 (8-0), 9/1 (0-8), 9/2 (7-12), 10 (7-11), 11/1 (0-8), 11/2 (7-12), 12/1 (7-11), 12/2 (0-9), 13 (5-8), 19 (6-12), 20 (8-0), 21 (7-14), 22 (1-8), 107/1 (0-2), 294/1/2 (1-16), 298/1/2 (2-16), 303 (3-5), 304 min (0-6), 307 (0-9) **fields no. 131 measuring 72 Acre 1 Kanal 4 Marla.**

The landowners and the interested persons have accepted the measurement and the classification of the land and no objection in this regard have been received from the acquiring Department also.

COST OF LAND

No landowners and interested person appeared in pursuance of the notice U/s 9 of the Act.

The Department was represented by **Sh. Jagdish Kadiyan, Assistant Manager(LA), Kundli,** who stated that the demand of the landowners was very high and the reasonable rate of land as sent by the Divisional Level Committee may be fixed. Ex-party proceeding was taken against those, who did not appear. The landowners are entitled to have that price which prevailed at the time of publication of notification U/s 4 of the Act.

The Commissioner Rohtak Division, Rohtak presided over the Divisional Level Committee meeting on **5-03-2013** held at 4:00 P.M. in the Commissioner office Room, Rohtak for fixation of the market rate of the land under acquisition. The Divisional Level Committee vide his letter endorsement No. 281-83, dated 11-03-2013 has supplied the market value/price/rate Rs. 30,20,000/- Per acre for every kind of land.

Keeping in view the location of land and all other factors, which are essential for determination of the market value, I award **Rs. 30,00,000/-** per acre for every kind of land.

By applying the above-mentioned rate, the price of land under acquisition has been worked out as under:-

Class of Land Acquired	**Area under Acquisition**			**Total**
	Acre	**Kanal**	**Marla**	
Nahri/Chahi/Gair Mumkin/Barani	**72**	**1**	**4**	**21,64,50,000/-**

Price of land according to Sub Section 1-A of section 23 of the land Acquisition Act, 1894.

The landowners and the interested persons will be entitled to 12% p.a. (35.38%) on the market value i.e. **Rs. 21,64,50,000/-** according to sub section 1-A of section 23 of the Act, which comes to **Rs. 7,65,80,910/-**

The landowners and the interested persons will be entitled to 30% Solatium which is consideration of compulsory nature of acquisition on the total price of land i.e. **Rs. 21,64,50,000/-** which comes to **Rs. 6,49,35,000/-**

SHADOW TREE

Total **eleven shadow trees** lie in the area under acquisition, whose assessment list was sent to me by the Divisional Forest Officer, Sonipat. The list of assessment for trees is as under:-

Sr. No.	Name of owner	Khewat/ Khata No	Rect. & Killa No.	Type of Property	Amount assessed by the Deptt. (Rupees)
1.	Randhir Singh s/o Sardar Singh etc.	62	98//10	Sisam-1	5559/-
2.	Smt. Pyari w/o etc.	280 Min	106//10	vividh-2	1992/-
3.	Smt. Roshani w/o etc.	291	105//24	Vividh, sisam-8	29479/-
	Total			11	37030/-

I accept the assessment made by the Divisional Forest Officer, Sonipat and award accordingly **Rs. 37,030/-** for the cost of shadow trees.

The landowners and the interested persons will be entitled to 12% p.a.(35.38%) from the date of notification u/s-4 on the aforesaid value of Shadow trees i.e **Rs. 37,030/-** according to sub section 1-A of section 23 of the act which comes to **Rs. 13,101/-**

The landowners and the interested persons will be entitled to 30% Solatium which is consideration of compulsory nature of acquisition on the total price of Shadow trees i.e **Rs. 37,030/-** which comes to **Rs. 11,109/-**

FRUIT TREE

The supplementary award of the fruit trees lie in the acquired land will be announced separately.

BUILDING & STRUCTURE

The supplementary award of the Building & Structure etc. lie in the acquired land will be announced separately.

TUBEWELLS

Total **twenty three tube wells** come in the area under acquisition, whose assessment list has been sent to me by the Assistant Agriculture Engineer, Sonipat. The assessment list of Tube wells are as under :-

Sr. No.	Name of owner	Khewat/ Khata No	Killa No.	Type of Property	Amount assessed by the Deptt. (Rupees)
1.	Azad Singh s/o Mehar Ram etc.	24	98//21/2	Tube well-1	6900/-
2.	Dharambir s/o Mange Ram etc.	25	98//20/1	Tube well-1	6900/-
3.	Bhagat Ram s/o Mange	28	99//6/1	Tube well-1	6900/-
4.	Randhir Singh s/o Sardar Singh etc.	62	98//10	Tube well-1	6900/-
5.	Jaideep s/o Rajpal	141	99//20/1	Tubewell-1	6900/-
6.	Amit s/o Satypal etc.	142	99//19/1	Tubewell-1	6900/-
7	Surjeet s/o Baljeet etc.	147	99//22/2	Tubewell-1	6900/-
8.	Smt. Murti D/o Maan Singh etc.	172	96//21/2, 98//1	Tubewell-1 Tubewell-1	6900/- 6900/-
9.	Prem Singh s/o Badla etc.	175	98//23	Tubewell-1	6900/-
10.	Smt. Chander wati w/o etc.	214	99//14	Tubewell-1	6900/-
11.	Muktiyar Singh s/o Bhoop Singh etc.	247	99//18/1	Tubewell-1	6900/-
12.	Smt. Kamala widow etc.	248	99//17/1	Tubewell-1	6900/-
13.	Prem Singh s/o Ram Bhagat etc.	249	99//23/2 105//4/1	Tubewell-1 Tubewell-1	6900/- 6900/-
14.	Smt. Pyari widow etc.	280 min	105//15/2, 106//10, 106//11/2	Tubewell-1 Tubewell-1 Well-1	6900/- 6900/- 12220/-
15.	Smt. Roshni widow etc.	291	106//20	Tubewell-1	6900/-
16.	Smt. Dayawati widow etc.	302	105//7, 105//13/2	Tubewell-1 Tubewell-1	6900/- 6900/-
17.	Mahender Singh s/o Mansa Ram etc.	343	106//19	Tubewell-1	6900/-
18.	Gram Panchyat	531	106//13	Tubewell-1	6900/-
	Total			23	164028/-

I accept the assessment made by Assistant Agriculture Engineer, Sonipat and award accordingly Rs. 2,06,720/-or the cost of tube wells.

The landowners and the interested persons will be entitled to 12% p.a.(35.38%) from the date of notification u/s-4 on the aforesaid value of Tube well i.e Rs. 1,64,820/- according to sub section 1-A of section 23 of the act which come to Rs. 53,830/-

The landowners and the interested persons will be entitled to 30% Solatium which is consideration of compulsory nature of acquisition on the total price of Tube well i.e Rs. 1,64,820/- which comes to Rs. 49,296/-

POSSESSION OF LAND

Payment will be made to the land owners according to the shares and right as entitled in the ownership column of the last Jamabandi. However on account of death of any land owner the compensation could be paid to the legal heirs of the deceased. In case of dispute, the compensation amount will be kept in Bank till the contesting parties come to an amicable settlement or get the dispute decided by a competent court of law. Similarly in the case of absence of a land owner, the compensation amount will be kept in the Bank till the original payees turns up.

The acquired land will vest absolutely in the Government, free from all encumbrances with effect from today, the 13-03-2013.

MODE OF PAYMENT

Payment will be made to the land owners according to the shares and rights as entitled in the last "Jamabandi". However, on account of death of any landowner, the compensation could be paid to the legal heirs of the deceased. In case of dispute, the compensation amount will be kept in the Bank till the contesting parties come to an amicable settlement or get dispute decided by a competent court of law. Similarly in the case of absence of a land owner, the compensation amount will be kept in the Bank till the original payees turn up.

The acquired land will vest absolutely in the Government, free from all encumbrances with effect today, the 13-03-2013.

Subject to the above remarks, the award stands as follows:-

Serial No.	Price	Amount	12% p.a u/s23(1-A) of the Act	30% solatium	Total
1	Price of Land	216450000	76580010	64935000	357965010
2	Price of Shadow trees	37030	13101	11109	61240
5	Price of Tubewells	164020	58030	49206	271256
Grand Total		**216651050**	**76651141**	**64995315**	**35,82,97,506**

(Rupees thirty five crore eighty two lacs ninety seven thousand five hundred six only)

Announced on 13-03-2013 at Tehsil, Kharkhoda in the presence of persons interested and notice U/s 12 (2) of the Act be issued to those who are not present.

District Revenue Officer-Cum-
Land Acquisition Collector, Sonipat

Place: - Tehsil, Kharkhoda
Dated: - 13-03-2013

End'st No. 136-141 /KGO LA Sonipat Dated 2-4-2013

A copy of the above is forwarded to the following for information:-

1. Financial Commissioner & Principal Secretary to Govt. of Haryana Industries Department, Chandigarh.
2. Director of Industries & Commerce, Haryana, Chandigarh.
3. Managing Director, Haryana State Infrastructure & Industries Development Corporation Limited, Plot No. C – 13 - 14 Sector-6, Panchkula.
4. Deputy Commissioner, Sonipat.
5. Senior Manager, HSIIDC, Industrial Estate, Kundli, Tehsil & District Sonipat.
6. Tehsildar Kharkhoda, he is requested to enter and sanction the mutation of land in question in favour of Haryana State (HSIIDC).

District Revenue Officer-Cum-
Land Acquisition Collector, Sonipat

DISTRICT SONIPAT

Award announced by Sh. Suresh Kumar, District Revenue Officer-Cum- Land Acquisition Collector, Sonipat.

Award No. –45

Date of Award: - 13-03-2013

Village:- Pahaladpur

In pursuance of the Govt. Notification No. 2/1/4-1IB-1/2010, dated 1-04-2010, published in Govt. Gazette dated 1-04-2010 U/s-4 of the Land Acquisition Act, 1894 (hereinafter referred to as the Act) and declared vide Notification No. 2/1/4-1IB-II-2010, dated 4-04-2011 U/s-6 of the Land Acquisition Act, 1894 thereinafter published in Govt. Gazette dated 4-04-2011 Total Land Acquired is 71 **Acre 7 Kanal 10 Marla** at **Village Pahaladpur** Hadbast No. **15** Tehsil Kharkhoda District Sonipat at public expense, for a public purpose, namely, for the Development of industrial modern township in the revenue estate of villages Gopal pur, Pipli, Saidpur, Kundal, Rampur, Firozpur, Banger, Nizampur Khurd, Sohati, Pahaladpur and Barona Tehsil Kharkhoda District Sonipat.

MEASUREMENT

The area given in the Notification U/s 6 of the Land Acquisition Act, 1894 is 72 **Acre 0 Kanal 8 Marla**, while the award has been announced of 71 **Acre 7 Kanal 10 Marla**. The difference of 0 Acre 0 Kanal 18 Marla is due to clerical mistake. The Land under acquisition lies in **fields No. 136** as per detail given in form No. 1, prepared under paragraph no. 36 of the Financial Commissioner standing order No. 28. I agree with the classification of the basis of entries in the "Jamabandi" for the year 200.. -...

Class of Land Acquired	Area under Acquisition		
	Acre	Kanal	Marla
Nahri/Chahi/Gair Mumkin/Barani	71	7	10

The details of Khasra Nos. of the land under acquisition are as under: - 25//4 (7-8), 5 (8-0), 6 (8-0), 26//1 (7-18), 2 (5-9), 3 (2-11), 4 (0-7), 6/1 (4-13), 6/2 (3-6), 7 (7-13), 8 (8-0), 9 (8-0), 10 (8-0), 11 (8-0), 12/1 (5-16), 12/2 (2-4), 13 (7-17), 14 (8-0), 15 (8-0), 16/1 (1-7), 16/2 (1-0), 16/3 (5-13), 17 (7-8), 18 (8-0), 19/1 (4-13), 19/2 (3-7), 24 (6-16), 25 (7-7), 27//21 (0-6), 28//9 (0-4), 10 (2-7), 11/1 (2-0), 11/2 (2-12), 11/3 (3-0), 12 (7-1), 13/1 (2-0), 13/2 (3-0), 14 (0-19), 16 (4-18), 17/1 (3-1), 17/2 (0-18), 17/3 (4-0), 18 (8-0), 19/1 (5-16), 19/2 (2-4), 20/1 (1-2), 20/2 (5-11), 20/3 (1-7), 21/1 (5-10), 21/2 (1-17), 22/1 (0-2), 22/2 (7-5), 23 (7-7), 24/1 (4-0), 24/2 (4-0), 25/1 (0-16), 25/2 (7-4), 29//20 (1-9), 21 (7-16), 22 (4-0), 23 (0-6), 30//1 (8-0), 2/1 (0-16), 2/2 (7-4), 3/1 (3-1), 3/2 (3-13), 4 (0-7), 8/1 (2-0), 8/2 (4-12), 9/1 (4-4), 9/2 (3-8), 9/3 (0-8), 10 (8-0), 11/1 (7-11), 11/2 (0-9), 12/1 (0-8), 12/2 (3-3), 12/3 (4-9), 13/1 (1-11), 13/2 (1-3), 18 (0-1), 19/1 (1-16), 19/2 (4-16), 20/1 (7-12), 20/2 (0-8), 21/1 (x-x), 21/2 (7-19), 22 (3-4), 31//1/1 (6-12), 1/2 (1-8), 2 (8-0), 3 (8-0), 4/1 (4-16), 4/2 (3-4), 5/1 (0-8),

5/2 (7-9), 6/1 (x-x), 6/2 (8-0), 7/1 (0-8), 7/2 (7-12), 8/1 (2-9), 8/2 (3-11), 9/1 (0-4), 9/2 (7-16), 10/1 (0-12), 10/2 (7-8), 11/1 (0-4), 11/2 (7-16), 12/1 (0-4), 12/2 (7-16), 13 (8-0), 14/1 (7-12), 14/2 (0-8), 15/1 (0-4), 15/2 (7-16), 16/1 (4-16), 16/2 (3-4), 17/1 (0-8), 17/2 (3-16), 17/3 (3-16), 18 (8-0), 19/1 (1-0), 19/2 (7-0), 23 (7-7), 24 (7-7), 25/1 (0-8), 25/2 (7-0), 26 (0-3), 32/4/1 (7-11), 4/2 (0-9), 5 (7-8), 6 (8-0), 33/1 (7-13), 2 (0-9), 10 (4-16), 11 (1-8) **field's no. 136** measuring **71 Acre 7 Kanal 10 Marla.**

The landowners and the interested persons have accepted the measurement and the classification of the land and no objection in this regard have been received from the acquiring Department also.

COST OF LAND

No landowners and interested person appeared in pursuance of the notice U/s 9 of the Act.

The Department was represented by **Sh. Jagdish Kadiyan, Assistant Manager(LA), Kaul'll,** who stated that the demand of the landowners was very high and the reasonable rate of land as sent by the Divisional Level Committee may be fixed. Ex-party proceeding was taken against those, who did not appear. The landowners are entitled to have that price which prevailed at the time of publication of notification U/s 4 of the Act.

The Commissioner Rohtak Division, Rohtak presided over the Divisional Level Committee meeting on **5-03-2013** held at 4:00 P.M, in the Commissioner office Room, Rohtak for fixation of the market, rate of the land under acquisition. The Divisional Level Committee vide his letter endorsement No. 281-83, dated 11-03-2013 has supplied the market value/price/rate **Rs. 30,00,000/-** Per acre for every kind of land.

Keeping in view the location of land and all other factors, which are essential for determination of the market value, I award **Rs. 30,00,000/-** per acre for every kind of land.

By applying the above-mentioned rate, the price of land under acquisition has been worked out as under:-

Class of Land Acquired	Area under Acquisition			Total
	Acre	Kanal	Marla	
Nahri/Chahi/Gair Mumkin/Barani	**71**	**7**	**10**	**21,58,12,500/-**

Price of land according to Sub Section 1-A of section 23 of the land Acquisition Act, 1894.

The landowners and the interested persons will be entitled to 12% p.a. (35.38%) on the market value i.e. **Rs. 21,58,12,500/-** according to sub section 1-A of section 23 of the Act, which comes to **Rs. 7,63,54,462/-**

The landowners and the interested persons will be entitled to 30% Solatium which in consideration of compulsory nature of acquisition on the total price of land i.e. **Rs. 21,58,12,500/-** which comes to **Rs. 6,47,43,750/-**

SHADOW TREE

Total **thirty one trees** lie in the area under acquisition, whose assessment list was sent to me by the Divisional Forest Officer, Sonipat. The list of assessment for trees is as under:-

Sr. No.	Name of owner	Khewat/ Khata No	Rect. & Killa No.	Type of Property	Amount assessed by the Deptt. (Rupees)
1.	Dal Chand s/o Mohan Lal	34	26//16/3	Sahtoot-1	1000/-
2.	Balbir Singh s/o Bhagwan etc.	38	28//23	Sahtoot-1	1500/-
3.	Sukhbir @ Saibir Singh s/o Jeet Ram	58 min	31//14/1	Kikar-1	2056/-
4.	Satpal s/o Malu Singh etc.	59	28//25/1, 31//17/1	Vividh-1 Vividh-1 Sisam-1	393/- 5727/-
5.	Satpal s/o Malu Singh	60 min	29//21	Sisam-1	1365/-
6.	Suresh Kumar s/o Ram Chander etc.	60	31//12/2	Sisam, Kikar, vividh=15	68524/-
7.	Rajender s/o Bhalo Ram	73 min	32//4/1	Vividh-1	1599/-
8.	Om Parkash s/o Puran etc.	74	31//25/2	Vividh-1	158/-
9.	Layak Ram s/o Shar Singh etc.	283	26//6/2	Vividh-1	5555/-
10.	Dharm Singh s/o Mansa Ram	326	26//10, 27//21	Sahtoot-1 Vividh-2	1560/- 9656/-
11.	Smt. Bharto w/o etc.	374/432	28//24/2	Vividh-3	1179/-
12.	Total			31	1,00,222/-

I accept the assessment made by the Divisional Forest Officer, Sonipat and award accordingly **Rs. 1,00,222/-** for the cost of shadow trees.

The landowners and the interested persons will be entitled to 12% p.a.(35.38%) from the date of notification u/s-4 on the aforesaid value of Shadow trees i.e **Rs. 1,00,222/-** according to sub section 1-A of section 23 of the act which comes to **Rs. 35,458/-**.

The landowners and the interested persons will be entitled to 30% Solatium which is consideration of compulsory nature of acquisition on the total price of Shadow trees i.e **Rs. 1,00,222/-** which comes to **Rs. 30,067/-**.

FRUIT TREE

Total **two fruit trees** lie in the area under acquisition, whose assessment list has been sent to me by Distt. Horticulture Officer, Sonipat. The list of assessment for trees is as under:-

Sr. No.	Name of owner	Khewat/ Khata No.	Rect. & Killa No.	Type of Property	Amount assessed by the Deptt. (Rupees)
1.	Layak Singh etc.	283	26//3	Beri-2	14688/-

I accept the assessment made by District Horticulture Officer, Sonipat and award accordingly **Rs. 14,680/-** for the cost of Fruit trees.

The landowners and the interested persons will be entitled to 12% p.a.(35.38% days) from the date of notification u/s-4 on the aforesaid value of Fruit trees i.e **Rs. 14,680/-** according to sub section 1-A of section 23 of the act which come to **Rs. 5,194/-**

The landowners and the interested persons will be entitled to 30% Solatium which is consideration of compulsory nature of acquisition on the total price of Fruit trees i.e **Rs. 14,680/-** which comes to **Rs. 4,404/-**

BUILDING & STRUCTURE

There are some sheds, buildings & structure etc. which comes in the area under acquisition. That assessment list is sent to me by the Executive Engineer, provincial Division, No.2, PWD (B&R), Sonipat. The assessment of building & structure etc. is as under: -

Sr. No	Name of owner	Khewat/ Khata No.	Killa No.	Type of Property	Amount assessed by the Deptt. (Rupees)
1.	Suresh Kumar s/o Ram Chander etc.	60	31//12/2	Kotha-1	32020/-

I accept the assessment made by the Executive Engineer, Provincial Division, No. 2, PWD (B&R), Sonipat. and award accordingly **Rs. 32,020/-** for the cost of tube wells.

The landowners and the interested persons will be entitled to 12% p.a.(35.38%) from the date of notification u/s-4 on the aforesaid value of Building & Structure i.e **Rs. 32,020/-** according to sub section 1-A of section 23 of the act which come to **Rs. 11,329/-.**

The landowners and the interested persons will be entitled to 30% Solatium which is consideration of compulsory nature of acquisition on the total price of Building & Structure i.e **Rs. 32,020/-, which comes to Rs. 9,606/-.**

TUBEWELLS

Total **twenty tube wells** come in the area under acquisition, whose assessment list has been sent to me by the Assistant Agriculture Engineer, Sonipat. The assessment list of Tube wells are as under :-

Sr. No.	Name of owner	Khewat/ Khata No	Killa No.	Type of Property	Amount assessed by the Deptt. (Rupees)
1.	Dal Chand s/o Mohan Lal	34	26//16/3	Tube well-1	9000/-
2.	Maha Singh s/o Chandgi	37	26//24, 26//25	Tube well-1 Tubewell-1	9000/- 9000/-
3.	Ram Kanwar S/o Rama Nand etc.	52	28//10	Tube well-1	9000/-

4.	Satpal s/o Maha Singh etc.	59	28//25/1	Tube well-1	9000/-
5.	Satpal s/o Maha Singh	60 Min	30//1	Tubewell-1	9000/-
6.	Suresh Kumar s/o Ram Chander etc.	60	31//9/2	Tubewell-1	9000/-
7	Krishan s/o Jage	66	35//5 min	Tubewell-1	9000/-
8.	Azad Singh s/o Nafe Singh etc.	72	30//20/1	Tubewell-1	9000/-
9.	Krishan s/o Bhale Ram	73	30//3/1	Tubewell-1	9000/-
10.	Rajender s/o Bhale Ram	73 min	29//22	Tubewell-1	9000/-
11.	Om Parkash s/o Puran etc.	74	31//25/2	Tubewell-1	9000/-
12.	Layak Ram s/o Shera etc.	285	26//6/2, 13, 18	Tubewell-1 Well-1 Tubewell-1	13860/-
13.	Dharm Singh s/o Mansha Ram	336	24//11	Tubewell-1	26860/-
14.	Sudesh Kumar s/o Omparkash etc.	363	32//6	Tubewell-1	9000/-
15.	Suraj Bhan s/o Bhagmal etc.	374	28//24/1	Tubewell-1	9000/-
16.	Krishan s/o Bhale Ram	442	29//23	Tubewell-1	9000/-
17.	Krishan s/o Jage Ram	479	28//28/3	Tubewell-1	9000/-
	Total			20	206720/-

I accept the assessment made by Assistant Agriculture Engineer, Sonipat and award accordingly **Rs. 2,06,720/-**or the cost of tube wells.

The landowners and the interested persons will be entitled to 12% p.a.(35.38%) from the date of notification u/s-4 on the aforesaid value of Tube well i.e **Rs. 2,06,720/-** according to sub section 1-A of section 23 of the act which come to **Rs. 73,137/-**

The landowners and the interested persons will be entitled to 30% Solatium which is consideration of compulsory nature of acquisition on the total price of Tube well i.e Rs. 2,06,720/- which comes to **Rs. 62,016/-**

POSSESSION OF LAND

Payment will be made to the land owners according to the shares and right as entitled in the ownership column of the last Jamabandi. However on account of death of any land owner the compensation could be paid to the legal heirs of the deceased. In case of dispute, the compensation amount will be kept in Bank till the contesting parties come to an amicable settlement or get the dispute decided by a competent court of law. Similarly in the case of absence of a land owner, the compensation amount will be kept in the Bank till the original payees turns up.

The acquired land will vest absolutely in the Government, free from all encumbrances with effect from today, the **13-03-2013.**

MODE OF PAYMENT

Payment will be made to the land owners according to the shares and rights as entitled in the last "Jamabandi". However, on account of death of any landowner, the compensation could be paid to the legal heirs of the deceased. In case of dispute, the compensation amount will be kept in the Bank till the contesting parties come to an amicable settlement or get dispute decided by a competent court of law. Similarly in the case of absence of a land owner, the compensation amount will be kept in the Bank till the original payees turns up.

The acquired land will vest absolutely in the Government, free from all encumbrances with effect today, the 13-03-2013.

Subject to the above remarks, the award stands as follows:-

Serial No.	Price	Amount	12% p.a (35.38%) u/s23(1-A) of the Act	30% solatium	total
1	Price of Land	215812500	76354463	64743750	356910713
2	Price of Shadow trees	100222	35459	30067	165748
3	Price of Fruit trees	14680	5194	4404	24278
4	Price of Building & Structure	32020	11329	9606	52955
5	Price of Tubewells	206720	73138	62016	341874
	Grand Total	216166142	76479581	64849842	35,74,95,568

(Rupees thirty five crore seventy four lacs ninety five thousand five hundred sixty eight only)

Announced on 13-03-2013 at Tehsil, Kharkhoda in the presence of persons interested and notice U/s 12 (2) of the Act be issued to those who are not present.

Sd/-
District Revenue Officer-Cum-
Land Acquisition Collector, Sonipat

Place: - Tehsil, Kharkhoda
Dated: - 13-03-2010

End's: No. 142 - 147 /KOO LA Sonipat Dated 19-2-2013

A copy of the above is forwarded to the following for information:-

1. Financial Commissioner & Principal Secretary to Govt. of Haryana Industries Department, Chandigarh.
2. Director of Industries & Commerce, Haryana, Chandigarh.
3. Managing Director, Haryana State Infrastructure & Industries Development Corporation Limited, Plot No. C – 13 - 14 Sector-6, Panchkula.
4. Deputy Commissioner, Sonipat.
5. Senior Manager, **HSIIDC**, Industrial Estate, Kundli, Tehsil & District Sonipat.
6. Tehsildar Kharkhoda, he is requested to enter and sanction the mutation of land in question in favour of Haryana State (HSIIDC).

District Revenue Officer-Cum-
Land Acquisition Collector, Sonipat
LA

DISTRICT SONIPAT

Award announced by Sh. Suresh Kumar, District Revenue Officer cum-Land Acquisition Collector, Sonipat

Award No. 46

Date of Award:- 20-03-2013

Village:- Nizampur Khurd

In pursuance of the Govt. Notification No.-2/1/4-IIB-II-2010, dated 1-04-2010, published in Govt. Gazette dated 1-04-2010 u/s-4 of the Land Acquisition Act, 1894 (hereinafter referred to as the Act) and declared vide Notification No. **2/1/4-IIB-II-2010, Dated 4-04-2011** u/s 6 of the Land Acquisition Act, 1894 thereinafter published in Govt. Gazette dated 4-04-2011 Total land acquired is **281 Acre 4 Kanal 10 Marla** at village **Nizampur Khurd** Hadbast No. 238 Tehsil Kharkhoda District Sonipat at public expense, for a public purpose, namely, for the development of Industrial Modern Township in revenue estate of villages Gopalpur, Pipli, Sahlpur, Kuvial, Rampur, Firozpur, Jhager, Nizampur Khurd, Sohnti, Pahalalpur and Borana, Tehsil Kharkhoda District Sonipat.

MEASUREMENT

The area given in the Notification u/s 6 of the Land Acquisition Act, 1894 is **282 Acre 0 Kanal 18 Marla**, while the award has been announced of **281 acre 4 kanal 10 marla**. The difference of **0 Acre 4 Kanal 8 Marla** is due to clerical mistake. The land under acquisition lies in 365 fields as per detail given in form no. 1, prepared under paragraph 36 of the Financial Commissioner standing order no. 28. I agree with the classification of the basis of entries in the "Jamabandi" for the year **2008-09.**

Class of Land Acquired	Area Under Acquisition		
	Acre.	Kanal	Marla
Class 'A'			
Nahri/Chahi	93	4	17
Class 'B'			
Nahri/Chahi	187	7	13
	281	4	10

The details of khasra Nos. of the land under acquisition are as under:- 1/25 (0-2), 2/2 (3-19), 3 (4-7), 4 (0-15), 7/1 (1-6), 7/2 (1-2), 8/1 (4-0), 8/2 (4-0), 9(5-8), 12 (7-4), 13 (3-0), 14 (1-9), 16 (0-1), 17 (5-3), 18 (7-4), 19 (8-0), 20 (2-8) 21/1 (3-6), 21/2 (4-0), 22/1 (5-10), 22/2 (3-2), 23/1 (2-15), 23/2 (4-17), 24/1 (4-0), 24/2 (4-0), 25 (4-0), 3//21 (4-2), 22 (0-4), 4/1 (1-9), 9 (0-10), 10/1 (0-1), 10/2 (4-5), 11 (8-0), 12/1 (3-8), 12/2 (1-18), 12/3 (1-11), 12/4 (0-16), 13/1/1 (1-12), 13/1/2 (0-7), 13/2/1 (0-3), 16 (1-5), 17 (5-13), 18/1/1 (4-0), 20/1 (0-1), 20/2 (7-0), 21/1 (4-0),

21/2 (4-0), 22/1/1 (5-4), 22/2/2 (0-3), 23/2 (7-8), 24 (8-0), 25 (7-18), 5/1/1 (4-4), 1/2 (3-16), 2/1 (2-8), 2/2 (5-4), 3/1 (3-19), 3/2 (2-5), 3/3 (0-19), 4 (7-11), 5/1 (4-3), 5/2 (2-6), 5/3 (1-1), 6/1 (0-4), 6/2/1 (7-0), 6/2/2 (0-8), 7 (8-0), 8/1 (1-6), 8/2 (6-12), 9 (8-0), 10 (8-0), 11 (8-0), 12 (8-0), 13 (7-12), 14 (8-0), 15/1 (0-4), 15/2/1 (0-8), 15/2/2 (7-0), 16/1 (6-16), 16/2 (0-8), 17 (7-19), 18/1 (5-4), 18/2 (2-8), 19 (8-0), 20 (7-16), 21 (5-13), 22 (8-0), 23/1 (4-13), 23/2 (2-19), 24/1 (4-15), 24/2 (2-17), 25 (8-0), 6//5 (2-4), 6 (5-10), 15 (3-5), 16 (0-7), 7//1 (1-3), 2 (7-16), 3/1 (3-11), 3/2 (4-9), 5 (8-0), 8 (8-0), 9 (5-18), 12/1 (1-5), 12/2 (3-4), 13/1 (1-16), 13/2 (5-18), 13/3 (0-6), 15/1 (0-13), 15/2 (6-11), 16 (7-12), 17 (7-12), 18/1 (0-8), 18/2 (7-12), 19 (3-2), 22 (1-16), 23/1 (7-12), 23/2 (0-8), 24 (7-4), 25 (7-0), 8//1 (8-0), 2/1/1 (2-8), 2/2/2 (2-8), 3 (8-0), 4 (8-0), 5/1 (3-11), 5/2 (4-9), 6 (8-0), 7 (8-0), 8/1 (6-12), 8/2 (1-8), 9/1 (5-4), 11/1/1/1 (0-10), 11/1/1/2 (3-19), 11/2/2 (0-7), 12/2 (7-13), 13 (8-0), 14 (8-0), 15 (8-0), 16 (8-0), 17 (8-0), 18 (8-0), 19 (8-0), 20/1/2 (2-14), 20/2/2 (2-6), 21/2 (5-8), 22 (8-0), 23 (8-0), 24/1 (0-18), 24/2 (7-2), 25 (8-0), 9//1 (8-0), 2 (6-14), 3 (1-9), 7 (1-15), 8 (7-12), 9 (8-0), 10 (8-0), 11 (8-0), 12 (7-12), 13 (7-11), 14 (7-4), 15 (0-15), 16 (5-12), 17/1 (7-08), 17/2 (0-12), 18 (8-0), 19 (7-12), 20 (8-0), 21/1 (0-13), 21/2 (7-7), 22 (7-12), 23 (8-0), 24 (8-0), 25 (8-0), 10//21 (2-10), 11//1/1 (5-18), 9/2 (1-1), 9/3/2 (1-3), 10/2 (7-14), 11/1/1 (1-17), 11/2 (4-0), 12 (8-0), 13/1 (0-12), 13/2 (2-16), 18 (4-10), 19 (7-11), 20 (7-11), 21/1 (1-8), 21/2 (6-12), 22 (8-0), 23 (2-16), 26 (0-11), 12//1 (7-11), 2 (6-15), 3/1 (2-13), 3/2/2 (4-16), 4 (7-11), 5 (7-11), 6 (8-0), 7 (8-0), 8/1 (7-4), 8/2 (0-16), 9 (7-12), 10/1 (3-2), 10/2 (4-18), 11 (8-0), 12 (7-12), 13/1 (2-12), 13/2 (5-8), 14 (8-0), 15/1 (7-12), 16/1 (3-12), 16/2/1 (1-17), 17/2 (7-6), 18/1 (1-6), 18/2 (6-5), 19/1 (2-2), 19/2 (5-2), 20 (7-11), 21/1 (0-13), 21/2 (6-19), 22/1 (2-11), 22/2 (2-11), 22/3 (0-1), 22/4 (1-5), 22/5 (0-9) 22/6 (0-9), 22/7 (0-8); 23/1/1/1 (2-4), 23/1/1/2 (1-5), 23/1/1/3 (1-1), 24/2 (4-0), 25 (8-0), 13//1/1/2 (2-5), 1/1/3 (2-6), 1/2 (3-0), 2 (8-0), 3/1 (4-0), 3/2 (4-0), 4/1/1 (0-18), 4/1/2 (0-18), 4/1/3 (0-18), 5 (8-0), 6/1 (3-2), 6/2/1 (1-0), 6/2/2 (3-18), 7 (2-0), 8/1 (4-4), 8/2 (3-16), 9/1/1 (0-8), 9/1/2 (2-4), 9/2/1 (1-0), 9/2/2 (4-8), 10/1 (1-2), 10/2 (4-10), 10/3 (1-8), 12/1 (2-18), 12/2 (4-13), 13/1/1 (1-5), 13/1/2 (1-8), 13/2/1 (2-7), 13/2/2 (2-11), 14 (8-0), 15/1 (4-0), 15/2 (4-0), 16 (7-11), 17 (7-11), 18 (7-11), 19 (7-11), 20 (7-11), 21 (8-0), 22 (5-17), 23/1 (0-13), 23/2 (7-7), 24/1 (0-13), 24/2 (7-7), 25/1 (0-13), 25/2 (7-7), 14//3/1 (8-4), 3/2 (x-x), 4/1 (0-8), 4/2 (6-16), 5/1 (4-18), 5/2/2 (0-3), 6/1/1 (2-4), 6/2 (2-14), 7 (7-4), 8 (8-0) 16/1 (6-12), 17/2/1 (0-10), 24/1/1 (3-12), 24/2/2 (1-0), 25 (8-0), 15//4/1 (0-5), 5/2/1 (2-4), 5/2/2 (0-12), 16//1 (2-4), 2/1 (0-13), 2/2 (3-4), 3/1 (4-14), 3/2 (0-6), 3/3 (3-0), 4/1 (1-16), 4/2 (6-4), 5/2/1 (6-19), 5/2/2 (1-0), 6 (8-0), 7 (8-0), 8 (8-0), 9/2 (3-18), 12 (7-4), 13 (8-0), 14/1 (1-0), 14/2 (7-0), 15 (8-0), 16 (8-0), 17 (8-0), 18 (7-11), 19 (7-6), 21 (2-19), 22/1 (1-12), 22/2 (3-4), 22/3 (3-4), 23/2 (7-18), 24 (8-0), 25/1 (6-4), 25/2/1 (1-11), 25/2/2 (0-5), 26 (0-2), 17//1/1 (x-x), 1/2 (8-0), 2/1/1 (1-6), 2/1/2 (1-6), 2/1/3 (0-11), 2/1/4 (0-13), 2/1/5 (3-1), 2/1/6 (0-7), 3/1/1/1 (1-0), 3/1/1/2 (0-14), 3/1/1/3 (0-2), 4 (8-0), 5 (8-0), 6 (8-0), 7 (8-0), 8 (8-0), 9/1 (4-0), 9/2/1/1 (1-0), 9/2/2/1/2 (0-14), 10/2/1 (5-10), 10/2/2 (2-0), 12/1 (4-0), 12/2 (4-0), 13 (8-0), 14/1 (1-0), 14/2 (7-0), 15 (7-12), 16/1 (0-8), 16/2/1 (7-7), 16/2/2 (0-6), 17(7-11), 18 (7-11), 19/1/1 (1-16), 19/1/2 (1-16), 19/1/3 (1-16), 19/2 (0-16), 19/3 (1-9), 20/1/2/2 (1-19), 20/1/2/3 (1-19), 20/2/2 (0-4), 20/3/2 (0-8), 21/1/2 (0-8), 21/2/2 ;0-14), 21/4/2/1 (0-5), 21/5/2 (1-8), 21/6/2 (1-16), 21/7/2 (0-14), 22/1/1 (4-18), 22/1/2/1 (1-9), 22/1/2/2 (1-8), 22/1/2/3 (0-5), 22/2 (0-9), 23/1 (0-9), 23/2/1 (7-2), 23/2/2 (0-9), 24/1/1 (0-19), 24/1/2 (3-2), 24/1/3

(2-5), 24/1/4 (2-5), 24/2 (0-9), 25/1/1 (7-4), 25/1/2 (0-8), 25/2 (0-8), 26 (0-4), **18**//1 (8-0), 2 (7-7), 9 (4-16), 10 (8-0), 11 (8-0), 12 (7-19), 13/1 (0-0), 13/2 (1-4) 19 (8-6), 20 (8-0), 26 (0-5), **20**//1/1 (6-1), 2/1 (2-4), 2/2 (3-7), 2/3 (0-2), 2/4 (0-7), 2/5 (1-11) , 3 (7-11), 4 (5-13), 8 (7-11), 9/1 (0-19), 9/2 (6-12), 10/1/1 (0-8), 10/1/2/2 (4-16), 10/2 (1-4), **21**//1 (2-17), 2 (6-2), 3 (8-0), 4 (7-11), 5/1 (7-4), 5/2 (0-8), 6/1/1 (0-5), 6/1/2 (2-15), 6/2 (2-16), 6/3 (1-16), 7 (8-0), 8 (8-4), 9 (5-15), 10 (2-10), 11 (5-7), 12 (2-7), 13 (2-2), 14 (7-7), 15 (7-0), 17 (1-10), 20 (6-12), 21/1 (7-7), 21/2 (0-9), 21/3 (0-4), 22/1 (0-8), 22/2 (7-12), 23/1 (2-15), 23/2 (1-0), 26 (0-6), 27 (0-4), 28 (0-5), **22**//16/1 (0-2), 16/3 (0-8), 24/1 (0-9), 24/2 (0-8), 24/3 (0-3), 24/4 (0-1), 25/1 (3-0), 25/2 (2-14), 25/3 (0-9), 25/4 (0-3), 25/5 (0-1), **23**/04/1 (0-4), 4/2 (4-3), 4/3 (0-6), 5/1 (5-15), 5/2 (1-19), 5/3 (0-2), 5/4 (0-3), 6/1 (5-9), 6/2 (2-8), 7 (7-2), 14/1 (6-5), 14/2 (0-9), 15/2 (6-18), 16 (8-0), 17 (4-7), 26 (0-4), **24**//1/1 (7-16), 1/2 (0-4), 2 (8-0), 3/1 (1-4), 3/2 (5-3), 9 (8-0), 10 (8-0), 11 (7-11), **30**/0/11 (0-19), 18 (3-10), 19/1 (3-8), 19/2 (3-6), 20/1 (3-6), 20/2/1 (0-5), 20/2/2 (2-3), 20/2/3 (0-11), 21 (6-19), 22/1 (4-0), 22/2 (4-0), **31**//13 (1-2), 14 (7-2), 15 (4-16), 16/1 (0-9), 16/2 (5-11), 16/3 (2-0), 17/1 (0-9), 17/2 (5-11), 17/3 (2-0), 18/1 (0-2), 18/2 (2-9), 18/3 (1-13), 22/1 (0-2), 22/2 (1-14), 23/1 (3-0), 23/2 (4-18), 24/1 (3-2), 24/2 (4-18), 25/1/1 (3-3), 25/1/12 (4-1), 25/2 (0-1), **32**// 25 (1-5), 33/2 (4-8), 3/1 (7-19), 3/2 (0-2), 4/1 (2-17), 4/2 (4-14), 4/3 (0-9), 5/1/1 (3-13), 5/1/2 (0-4), 5/2 (1-18), 6/1 (0-9), 6/2 (6-0), 7 (8-0), 8/1 (1-0), 8/2 (7-0), 9 (5-14), 12/1 (5-18), 12/2 (2-4), 13 (7-11), 14 (7-11), 19 (8-0), 20 (4-5), 21 (7-16), **34**//1 (8-0), 51/2 (2-8), 51/3 (1-13), 51/4 (4-3), 51/5 (2-1), 51/6 (2-3), 51/7/2 (3-2), 51/8/2 (1-15), 51/9 (7-18), 51/10 (3-14), 52/1 (6-6), 52/2 (6-5), 66/2 (7-19), 67/1 (7-1), 67/2 (x-x), 69/1 (x-x), 70 min (3-15), 71 (2-18), 125 (2-10), 126/1 (x-x), 126/2 (0-8), 134 (1-3), 135/1 (0-9), 135/2/1 (0-9), 135/2/2 (0-9), 135/3 (0-8) **fields no. 565 measuring 281 acre 4 Kanal 10 marla.**

The landowners and the interested persons have accepted the measurement and the classification of the land and no objection in this regard have been received from the Acquiring Department also. The award of "Land Pooling Scheme" shall be announced later on.

COST OF LAND

No landowners and interested persons appeared in the pursuance of the notice u/s 9 of the LA Act.

The department was represented by **Sh. Jagdish Kadiyan, Assistant Manager(LA), HSIIDC, Kundli** who stated that the demand of the landowners was very high and the reasonable rate of land as sent by the Divisional Level Committee may be fixed. Ex-parte proceeding was taken against those, who did not appear. The landowners are entitled to have that price which prevailed at the time of publication of notification u/s 4 of the Act.

The commissioner, Rohtak Division, Rohtak presided over the Divisional Level Committee meeting on 5-03-2013 held at Deputy Commissioner's office room, Sonipat for fixation of the market rate of the land under acquisition. The Divisional Level Committee vide his letter endorsement no.281-83 Dated 11-03-2013 has supplied the market value/price/rate **Rs.**

35,00,000 /- per acre up to the depth of five acre from Kharkhoda Delhi road and Rs. 30,00,000/- per acre for remaining land for every kind of land.

Keeping in view the location of land and all other factors, which are essential for determination of the market value, I award Rs. 35,00,000 /- per acre up to the depth of five acre from Kharkhoda Delhi road and Rs. 30,00,000/- per acre for remaining land for every kind of land.

By applying the above-mentioned rate, the price of land under acquisition has been worked out as under:-

Class of Land Acquired	Area under Acquisition			Total
	Acre	Kanal	Marla	
Class 'A' Nahri/Chahi	93	4	17	32,76,21,875/-
Class 'B' Nahri/Chahi	187	7	13	56,38,68,750/-
	281	4	10	89,14,90,625/-

Price of land according to sub section 1-A section 23 of the Land Acquisition Act, 1894.

The landowners and interested persons will be entitled to 12% p.a (35.64%) on the market value i.e Rs. 89,14,90,625/- according to sub section 1-A of section 23 of the Act, which comes to Rs. 31,77,27,259/-

The landowners and interested persons will be entitled to 30% solatium which is consideration of compulsory nature of acquisition on the total price of land i.e Rs 89,14,90,625/ which comes to Rs. 26,74,47,188/-

SHADOW TREES

Total two hundred sixty three shadow trees lie in the area under acquisition, whose assessment list was sent to me by Divisional Forest Officer, Sonipat. The list of assessment for trees is as under:-

Sr. No.	Name of owner	Khewat /Khata no.	Rect. & Killa No.	Type of property	Amount assessed by the deptt.(in rupees)
1.	Pawan Kumr etc.	1	21/22/2	Vividh, Shisam-6	27697/-
2.	Sombir etc.	2	24/9	Vividh-4	2328/-
3.	Smt. Bimla Devi etc.	7	21/2/1/1	Vividh, Shisam-8	3390/-

4.	Kapoor Singh s/o Muktiyar Singh	16	12/2	Kiker, Shisam, Vividh-5	3273/-
5.	Randhir Singh s/o Muktiyar Singh	17	12/8/2 —	Shisam-1	5559/-
6.	Anup Singh s/o Muktiyar Singh	18	12/1	Shisam-1	5559/-
7.	Surat Singh etc.	21	33/13 14	Vividh, kiker, Shisam-10 Vividh-21	5890/- 4959/-
8.	Sathir Singh etc.	31	16/15	Vividh, shisam-5	25631/-
9.	Prem s/o Zyani	32	16/6	Vividh, shisam-7	21289/-
10.	Surat Singh adopted s/o Tek Chand	37	16/2/2	Vividh, shisam-3	2151/-
11.	Surender s/o Shish Ram	51	23/6	Vividh-3	5731/-
12.	Jagbir Singh s/o Omparkash	59	51/10	Vividh-11	3549
13.	Vinod kumar s/o Omparkash	60	13/23/2	Vividh, Shisam-10	5890/-
14.	Mudit s/o Niresh Chand	77	17/10/2/1	Vividh-1	3170/-
15.	Yogender Singh s/o Omparkash	79	17/1/2	Shisam-3	22138/-
16.	Bhoop Singh etc.	98	16/19	Vividh-1	5555/-
17.	Lachman etc.	110	31/14	Kiker-1	4076/-
18.	Jai Singh s/o Bhagwana	111 min	31/16/2	Kiker, shisam-3	3151/-
19.	Smt. Sheela etc.	112	31/24/2	Kiker-1	2056/-
20.	Nirmal etc.	137	14/7	Vividh, shisam-30	31777/-
21.	Roop Chand s/o gangal	147/154	23/14/1	Vividh-2	4769/-
22.	Raj singh s/o Mange Ram	148 min	17/7/1 min	Shisam-2	6924/-
23.	Ranbir Singh etc.	151	17/8	Vividh, shisam-4	2094/-
25.	Smt. Shanti etc.	152	17/18 25/8/1	Shisam-1 Shisam-3	1365/- 4095/-
26.	Smt. Raj Kumari etc.	163	17/22/1/2/3	Shisam-1	585/-
27.	Krishan Kumar etc.	165	20/2/2	Vividh-14	3477/-
28.	Sohan Singh s/o Kabul Singh	167	9/17/1	Vividh-3	1179/-
28.	Shri Ashok Kumar s/o Sh. B.N	168	9/13	Vividh-1	755/-
29.	Tara Singh etc.	173	9/18 24 11/10/2 12/4 16/24 17/5	Vividh, kiker-5, Vividh-9, Vividh-1 Vividh-1 Vividh-1 Vividh-3	1612/- 2637/- 1599/- 168/- 4797/- 2898/-
30.	Amit etc.	174	18/26	Vividh, shisam-6	23625/-
31.	Sukhoma etc.	175	18/19	Vividh,shisam-6	14409/-

32	Mahavir etc.	177	12/6 12/15/1	Vividh-1 Shisam-4 Vividh, shisam-16	10496/- 15842/-
33.	Smt. Prem Lata etc.	178	8/2/1 21/7	Kiker-1, Vividh-1, Shisam, vividh-5	505/- 168/- 4101/-
34.	Hemanadi Devi etc.	182	13/12/1	Vividh-3	3757/-
35.	Surender etc.	192	20/3	Shisam-10	9492/-
36.	Virender Singh S/o Umrav Singh	195	9/21/2	Vividh-3	4797/-
37	Virender etc.	196	9/19	Vividh-2	561/-
38	Gram Panchayat	296/313,315	14/24/2/2 14/25	Vividh/shisam-12 Vividh-6	9792/- 18156/-
			Total	263	3,50,604/-

I accept the assessment made by the Divisional Forest Officer, Sonipat and award accordingly **Rs. 3,50,604/-** for the cost of shadow trees.

The landowners and interested persons will be entitled to 12% p.a (35.64%) from the date of notification u/s 4 on the aforesaid value of shadow trees i.e **Rs. 3,50,604/-** according to sub section 1-A of section 23 of the Act, which comes to **Rs.1,26,533/-**

The landowners and interested persons will be entitled to 30% solatium which is consideration of compulsory nature of acquisition on the total price of shadow trees i.e **Rs 3,50,604/-** which comes to **Rs.1,05,181 /-**

FRUIT TREES

Total forty four trees lie in the area under acquisition, whose assessment list has been sent to me by District Horticulture Officer, Sonipat. The list of assessment for the fruit trees is as under:-

Sr. No.	Name of owner	Khewat/Khata no.	Rect. & killa no	Type of property	Amount assessed by the deptt. (rupees)
1.	Jagbir Singh S/o Om parkash	59	13/16	Amrood -10 Jamun-2	50300 16740
2	Vinod Kumar S/o Om Parkash	60	12/21/2	Amrood-10 Anar-1 Jamun-3	50300 1930 25110
3	Bhoop Singh etc.	98	16/12	Jamun-1	9079
4	Nirmal etc.	137	14/7	Anar-11 Jamun-1 Amrood-1 Amvala-1 Ardoo-1	16423 9179 4280 1830 2105
5	Sukhna etc.	175	17/15	Jamun-1	1290

6	Mahvir Singh etc.	177	17//20/2/2	Jamun-1	9070
			Total	44	200618

I accept the assessment made by the Divisional Horticulture Officer, Sonipat and award accordingly **Rs. 2,00,618/-** for the cost of fruit trees.

The landowners and interested persons will be entitled to 12% p.a **(35.64%)** from the date of notification u/s 4 on the aforesaid value of fruit trees i.e **Rs. 2,00,618/-** according to sub section 1-A of section 23 of the Act, which comes to **Rs. 71,500/-**

The landowners and interested persons will be entitled to 30% solatium which is consideration of compulsory nature of acquisition on the total price of fruit trees i.e **Rs 2,00,618/-** which comes to **Rs. 60,185/-**

TUBEWELL

Total eighty one tubewells come in the area under acquisition, whose assesment list has been sent to me by the Assistant Agriculture Engineer, Sonipat. The assessment list of tubewells area as under:-

Sr. No.	Name of owner	Khewat /Khata no.	Killa no.	Type of property	Amount of assessed by the deptt. (rupees)
1.	Sombir etc.	2	16//3/3	Tubewell-1	11500
2.	Smt. Bimla Devi etc.	7	21//21/1	Tubewell-1	11500
3.	Amar Singh S/o Chandram	6	21//20	Tubewell-1	13800
4.	Smt Mamta W/o Bijender Singh	10	21//21/3	Tubewell-1	12300
5	Kapoor Singh S/o Mukhtayar Singh	16	12//2	Tubewell-1	10700
6	Randhir S/o Mukhtayar Singh	17	12//8/1	Tubewell-1 Tubewell-1	10700 10700
7	Anoop Singh S/o Mukhtayar Singh	18	12//1	Tubewell-1	11400
8	Raj Singh S/o Attar Singh	20	30//21	Tubewell-1	11450
9	Surat Singh etc.	21	13//7	Tubewell-1	10700
10	Raj Bala etc.	26	12//10/2	Tubewell-1	10700
11	Ram kunwar S/o Surjmal	28	30//18	Tubewell-1	10450
12	Prem S/o Gayani Ram	32	16//7, 8	Tubewell-1 Tubewell-1	10700 10700
13	Dharm Singh S/o Gayani	33	24//7	Tubewell-1	12300
14	Surat Adopted son Tak Chand	37	15//5/2/2	Tubewell-1 Tubewell-1	11550 12300
15	Surender Kumar S/o Baldev Singh	45	12//12/1	Tubewell-1	10700
16	Raj Singh S/o Devi Singh	43	13//13/1/1	Tubewell-1	11450
17	Chootu Ram etc.	45	12//14	Tubewell-1	10700

18	Rajbala etc.	48	12/16/2/1	Tubewell-1	11450
19	Sansarchand S/o Shish Ram	52	32/25	Tubewell-1	12000
20	Rajender S/o Om Parkash	56	51/9	Tubewell-1	12000
21	Jagbir Singh S/o Omparkash	59	12/19/2	Tubewell-1 Tubewell-1	23600 12300
22	Kuldeep Singh S/o Om Parkash	76	9/2	Tubewell-1	10700
23	Sudeet S/o Naresh Chand	77	17/16/2/1	Tubewell-1	11500
24	Rajender etc.	96	16//17	Tubewell-1	10700
25	Saroop Singh S/o Raghbir Singh	97	5/25	Tubewell-1	10700
26	Shyam Sunder S/o Raghbir Singh	98	5/23/1	Tubewell-1	10700
27	Anil Kumar etc.	101	5//21	Tubewell-1	10700
28	Laxman etc.	110	30//11	Tubewell-1	12300
29	Jai Singh S/o Bhagwana	111	30//20/2/2	Tubewell-1	12340
30	Smt. Kashur etc.	131	14//8	Tubewell-1	10700
31	Raj Singh S/o Mange Ram	148	17//7/1	Tubewell-1	13500
32	Mahender Singh S/o Mange Ram	148	17//12/1/2	Tubewell-1	23600
33	Raj Singh S/o Mange Ram	149	2//23/2	Tubewell-1 Tubewell-1	10700 10700
34	Mahender Singh S/o Mange Ram	150	2//14 23/1	Tubewell-1 Tubewell-1	10700 10700
35	Raghbir Singh etc.	151	2//3, 4	Tubewell-1 Tubewell-1 Tubewell-1	10700 11450 11450
36	Smt. Shyanti etc.	152	17//16/2/1	Tubewell-1	34300
37	Shamsher Singh S/o Prem Singh	153	2//2	Tubewell-1	10700
38	Deepak etc.	155	4//9	Tubewell-1	10700
39	Smt. Raj kumara etc.	161	1//23 20/21/2	Tubewell-1 Tubewell-1	10700 10700
40	Smt. Mirari etc.	162	2//21/1	Tubewell-1	11000
41	Smt Raj Kumari etc.	163	17//21/1/2	Tubewell-1	12800
42	Amit etc.	171	5//15/2/2 16/1, 17	Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1	10700 12300 10700 10700
43	Tarif Singh etc.	173	9//17/2 23, 24, 25	Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1	11000 10700 11000 11400 26600
44	Sukhma widow etc.	175	2//12, 19, 20	Tubewell-1 Tubewell-1 Tubewell-1	10700 12800 23600
45	Makhbir Singh etc.	177	7//3	Tubewell-1 Tubewell-1 Tubewell-1	10700 10700 11500
46	Prem Lata etc.	178	4//20/2 21/1 21/2 22/1/1	Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1	10700 10700 10700 10700 10700

47	Surender Kumar etc.	192	17/23/2/1	Tubewell-1	40300
48	Virender S/o Umrao Singh	195	9/21/2, 22	Tubewell-1 Tubewell-1	10700 10700
49	Virender Singh etc.	196	8/25	Tubewell-1	10700
50	Jeet Singh etc.	200	5/1/1	Tubewell-1 Tubewell-1	10700 10700
51	Chandram S/o Bhairam	206	22/16/1	Tubewell-1	12300
52	Gram Panchayat	256	7/15/2 16	Tubewell-1 Tubewell-1	10400 10500
			Total	81	9,87,990

I accept the assessment made by Assistant Agriculture Engineer, Sonipat and award accordingly **Rs. 9,87,990/-** for the cost of tubewells.

The landowners and interested persons will be entitled to 12% p.a **(35.64%)** from the date of notification u/s 4 on the aforesaid value of tubewells i.e **Rs. 9,87,990/-** according to sub section 1-A of section 23 of the Act, which comes to **Rs. 3,52,120/-**

The landowners and interested persons will be entitled to 30% solatium which is consideration of compulsory nature of acquisition on the total price of tubewells i.e **Rs 9,87,990/-** which comes to **Rs. 2,96,397/-**

BUILDING & STRUCTURE

The supplementary award of the building & structure lies in the acquired land will be announced separately.

POSSESSION OF LAND

The possession of **281 acre 4 Kanal 10 maria** land under acquisition has been delivered to the concerned Department i.e **20-03-2013.**

MODE OF PAYMENT

Payment will be made to the land owners according to the shares and rights as entitled in the last "Jamabandi". However, on account of death of any landowner, the compensation could be paid to the legal heirs of the deceased. In case of dispute, the compensation amount will be kept in the Bank till the contesting parties come to an amicable settlement or get dispute decided by a competent court of law. Similarly in the case of absence of a landowner, the compensation amount will be kept in the bank till the original payees turns up.

The acquired land will vest absolutely in the Government, free from all encumbrances with effect today, the **20-03-2013.**

Subject to the above remarks, the award stands as follows:-

Sr. No.	Price	Amount	12% p.a (35.64%) u/s 23 (1&A)	30% Solatium	Total
1.	Price of Land	8914906625	317727259	267447188	1476665072
2.	Price of shadow trees	350604	124955	105181	580740
3.	Price of fruit trees	200618	71500	60185	332303
4.	Price of tubewells	987990	352120	296397	1636507
Total		8930329837	318275834	267908951	147,92,14,622

(Rupees one hundred forty seven crore ninety two lacs fourteen thousand six hundred twenty two only)

Announced **on 20-03-2013 at Tehsil, Kharkhoda** in the presence of persons interested and notice u/s 12 (2) of the Act be issued to those who are not present.

District Revenue Officer-cum
Land Acquisition Collector, Sonipat

Place:- Tehsil, Kharkhoda
Dated:-20-03-2013
Endst. No. 147-53 **/Kgo LA Sonipat** **Dated** 26/03/2013

A copy of the above is forwarded to the following for information:-

1. Financial Commissioner & Secretary to Govt. of Haryana Industries Department. Chandigarh.
2. Director of Industries & Commerce, Haryana, Chandigarh.
3. Managing Director, Haryana State Infrastructure & Industries Development Corporation Ltd. Plot No. C 13-14, Sector-6, Panchkula.
4. Deputy Commissioner, Sonipat.
5. Senior Manager(IA), HSIIDC, Industrial Estate, Kundli, Tehsil & District Sonipat.
6. Tehsildar, Kharkhoda, he is requested to enter and section the mutation of land in favour of Haryana State (HSIIDC)

District Revenue Officer-cum
Land Acquisition Collector, Sonipat

DISTRICT SONIPAT

Award announced by Sh. Suresh Kumar, District Revenue Officer cum-Land Acquisition Collector, Sonipat

Award No. 47

Date of Award:- 25-03-2013

Village:- Gopalpur

In pursuance of the Govt. Notification No.-2/1/4-IIB-II-2010, dated 1-04-2010, published in Govt. Gazette dated 1-04-2010 u/s-4 of the Land Acquisition Act, 1894 (hereinafter referred to as the Act) and declared vide Notification No. 2/1/4-IIB-II-2010, Dated 4-04-2011 u/s 6 of the Land Acquisition Act, 1894 thereinafter published in Govt. Gazette dated 4-04-2011 Total land acquired is 464 Acre 2 Kanal 8 Marla of village Gopalpur Hadbast No. 13-R Tehsil Kharkhoda District Sonipat at public expense, for a public purpose, namely, for the development of Industrial Modern Township in revenue estate of villages Gopalpur, Pigli, Saidpur, Kondal, Rampur, Firozpur, Banger, Nirangpur Khurd, Sohali, Pahladpur and Bonna, Tehsil Kharkhoda District Sonipat

MEASUREMENT

The area given in the Notification u/s 6 of the Land Acquisition Act, 1894 is 464 Acre **6 Kanal 0 Marla,** while the award has been announced of **464 acre 2 kanal 8 marla.** The difference of **0 Acre 3 Kanal 12 Marla** is due to clerical mistake. The land under acquisition lies in 787 fields as per detail given in form no. 1, prepared under paragraph 36 of the Financial Commissioner standing order no. 28. I agree with the classification of the basis of entries in the "Jamabandi" for the year **2006-07.**

Class of Land Acquired	Area Under Acquisition		
	Acre	Kanal	Marla
Nahri/Chahi/Gair Mumkin	464	2	8

The details of killa Nos. of the land under acquisition are as under:- **46//** 23/2/2 (0-3), 24/1/2 (6-1), 25 (2-5), **47//** 1(1-2), 10 (2-4), **48 //** 2/2 (0-7), 3/1/2 (0-3), 3/2/2 (6-0), 4/1 (8-0), 4/2 (2-0), 5 (7-5), 6 (8-0), 7 (8-0), 8/1 (4-8), 8/2/1 (0-4), 8/2/2 (3-8), 9/1 (5-17), 10/1 (0-5), 11/2 (3-12), 12 (8-0), 13/1 (4-0), 13/2 (4-0), 14 (8-0), 15 (6-0), 16 (2-0), 17 (8-0), 18 (8-0), 19/1 (6-6), 19/2 (2-0), 20 (8-0), 21/1 (0-9), 21/2 (6-11), 22/1/1/1 (0-18), 22/1/1/3 (1-16), 22/1/2/2 (0-18), 23/2 (4-4), 23 (8-0), 24 (5-15), **49//** 16/1 (4-11), 17/1 (0-1), 24/2 (1-11), 25 (6-7), **61 //** 16/2 (2-12), 24/2 (2-13), 25/1/2

(5-13), 25/2 (1-13), **62** // 3/1/2 (0-7), 3/2/2 (3-12), 4 (8-0), 5/1 (7-16), 5/2 (0-4), 6/1 (0-8), 6/2 (7-12), 7 (8-0), 8 (7-12), 9/1 (3-16), 11/2 (3-8), 12/1/2 (2-0), 12/2 (6-0), 13 (7-12), 14 (8-0), 15/1 (0-4), 15/2/1 (7-12), 15/2/2 (0-4), 16/1 (0-4), 16/2 (7-10), 17/1 (7-8), 17/2 (0-11), 18 (7-12), 19 (8-0), 20/2 (7-9), 21 (8-0), 22 (8-0), 23/1 (1-1), 23/2/1 (6-11), 23/2/2 (0-7), 24/1 (3-16), 24/2 (4-2), 25/1 (2-12), 25/2 (3-10), **63** // 1 (7-0), 2 (8-0), 3/1 (5-18), 3/2 (9-14), 4/1 (0-6), 4/2 (0-9), 8/1 (2-18), 8/2 (0-8), 9/1 (0-9), 9/2 (6-13), 10/1 (6-5), 10/2 (0-6), 11/1 (6-9), 11/2 (0-4), 11/3 (0-1), 12/1 (0-8), 12/2 (0-5), 12/3 (1-16), 12/4 (1-15), 19 (0-13), 20/1 (4-16), 20/2/1 (0-3), 20/2/2 (1-11), 21 (6-15), **64** // 1/1 (1-17), 1/1/2 (1-3), 10 (0-3), **65**// 1/1 (0-4), 1/2/1 (7-7), 1/2/2 (0-9), 2/1 (0-1), 2/2/1 (2-8), 2/2/2 (0-3), 2/3/1 (0-3), 2/3/2 (4-19), 2/4 (0-6), 3/1/1 (1-14), 3/1/2 (5-10), 3/2 (0-8), 3/3 (0-8), 4/1 (3-6), 4/2 (2-8), 5/1 (0-18), 5/2/1 (3-2), 5/2/2 (3-18), 6 (7-4), 7 (7-12), 8/1 (1-12), 8/2 (4-14), 9 (8-0), 10 (8-0), 11 (8-0), 12/1 (5-18), 12/2/1 (0-14), 12/2/2 (0-4), 13/1 (0-4), 13/2/1 (x-x), 13/2/2 (7-5), 14 (8-0), 15 (5-0), 16 (1-8), 17/1 (1-11), 17/2/1 (1-16), 17/2/2 (4-7), 18/1/1 (2-19), 18/1/2 (0-12), 18/2 (4-9), 19/1/1 (4-14), 19/1/2 (0-8), 19/2 (1-8), 20 (8-0), 21/1 (6-10), 21/2/1 (0-8), 21/2/2 (0-3), 22/1 (0-10), 22/2/1 (0-4), 22/2/2 (6-4), 23 (8-0), 24 (4-17), **66**// 3/2/2/2 (2-3), 4/1/2 (6-14), 4/2 (1-2), 5 (7-8), 6 (7-8), 7 (8-0), 8 (7-13), 9/1/1/1/1 (1-17), 9/2/1/1/2 (x-x), 11/2 (1-12), 12/2 (7-9), 13 (8-0), 14/1 (7-11), 14/2 (0-9), 15/1 (4-15), 15/2 (2-13), 16 (7-8), 17 (8-0), 18 (8-0), 19 (8-0), 20/2 (7-12), 21/1 (0-8), 21/2 (6-12), 22 (7-11), 23 (7-11), 24 (7-4), 25 (7-8), **67**// 16/2 (1-2), 24/2 (1-2), 25/2 (7-5), **72** // 16/2 (0-16), 24/2 (0-5), 25/2 (5-16), **73**// 3/2 (9-18), 4/2 (7-8), 5 (8-0), 6 (7-19), 7 (8-0), 8/1 (6-16), 9/1 (9-14), 11/2/2 (0-11), 12/2 (6-8), 13 (7-11), 14 (7-12), 15 (8-0), 16 (8-0), 17 (7-4), 18/1 (5-7), 18/2 (2-13), 19 (8-0), 20/2 (6-1), 21/1 (5-7), 21/2 (2-1), 22 (8-0), 23 (8-0), 24 (8-0), 25 (7-12), 26 (0-1), **74**// 1 (7-8), 2 (8-0), 3 (8-0), 4 (8-0), 5 (7-0), 6 (7-8), 7 (8-0), 8 (8-0), 9 (8-0), 10 (7-8), 11 (7-8), 12 (8-0), 13 (8-0), 14 (8-0), 15 (7-8), 16 (7-8), 17 (8-0), 18 (8-0), 19 (8-0), 20 (7-8), 21 (7-8), 22 (8-0), 23 (8-0), 24/1 (4-8), 24/2 (3-12), 25 (7-8), **75**// 1/1 (1-11), 1/2 (0-12), 1/3 (1-4), 1/4 (0-17), 1/5/1 (0-8), 1/5/2 (1-16), 2/1 (6-11), 2/2 (0-16), 3/1/1 (0-15), 3/1/2 (3-14), 3/2 (1-13), 4 (2-16), 7/1 (0-1), 7/2 (0-1), 8 (7-6), 9/1 (4-6), 9/2 (4-0), 10/1/1 (2-8), 10/1/2 (0-8), 10/2 (3-16), 11/1 (3-0), 11/2/1 (0-8), 11/2/2 (3-4), 12 (8-0), 13/1 (1-12), 13/2 (4-13), 18 (5-8), 19 (8-0), 20/1 (4-10), 20/2 (2-2), 21/1 (1-4), 21/2 (5-6), 22 (8-0), 23 (1-15), **76**// 1/1 (0-1), 1/2 (6-2), 2 (5-16), 9 (2-4), 10 (7-4), 11 (6-17), 20 (4-6), 21 (1-0), **77**// 1 (7-8), 2 (8-0), 3 (8-0), 4/1 (4-12), 4/2 (3-5), 5 (8-0), 6/1 (7-3), 6/2 (0-8), 7/1 (7-16), 7/2 (0-4), 8 (8-0), 9 (8-0), 10 (7-8), 11 (7-8), 12 (8-0), 13 (8-0), 14/1 (0-4), 14/2 (7-16), 15/1 (6-6), 15/2

(0-6), 16/1 (1-2), 16/2 (5-10), 17/1 (7-16), 17/2 (0-4), 18 (8-0), 19 (8-0), 20/1 (5-12), 20/2 (3-16), 21/1 (4-16), 21/2 (3-4), 22 (8-0), 23/1 (0-8), 23/2 (7-12), 24 (8-0), 25/1 (4-18), 25/2 (1-10), 26 (0-1), **78//** 1 (7-8), 2 (8-0), 3/1 (2-15), 3/2 (5-5), 4 (8-0), 5 (7-12), 6 (8-0), 7 (8-0), 8 (8-0), 9/1/1 (0-13), 9/1/2 (2-0), 9/2 (5-7), 10 (7-8), 11 (7-8), 12 (8-0), 13 (8-0), 14/1 (7-0), 14/2 (1-0), 15 (8-0), 16 (8-0), 17/1 (6-16), 17/2 (1-4), 18 (8-0), 19 (8-0), 20 (7-8), 21 (7-8), 22 (8-0), 23 (8-0), 24/1/1 (3-12), 24/1/2 (0-8), 24/2 (4-0), 25 (8-0), **79//** 3 (0-3), 4/1/2 (0-19), 4/2/2 (4-12), 5 (8-0), 6 (8-0), 7 (8-0), 8/1 (5-1), 11/2 (0-1), 12/2 (3-16), 13 (8-0), 14/1 (4-4), 14/2 (3-16), 15 (8-0), 16 (8-0), 17 (8-0), 18 (8-0), 19 (7-0), 20/2 (4-10), 21/1 (7-11), 21/2 (0-9), 22/1 (6-11), 22/2 (0-9), 23 (6-16), 24 (6-18), 25 (6-18), **80//**16/2/2 (x-x), 25/1/2 (3-13), 25/2/1 (0-7), **81//**4/2/1 (3-5), 5/1/2 (4-18), 5/2 (3-2), 6/1 (4-0), 6/2 (4-0), 7/1 (6-18), 7/2 (0-9), 13/1 (0-8), 13/2 (1-18), 14/1 (3-12), 14/2 (4-8), 15 (8-0), 16 (8-0), 17/1/1 (5-2), 17/1/2 (2-0), 17/2 (0-18), 18/1/2 (0-10), 18/2/1 (1-15), 18/2 (0-8), 24 (7-3), 25 (8-0), 26 (0-1), **82//** 1/1/1 (0-6), 1/1/2 (5-6), 1/2 (2-9), 2 (8-0), 3/1/1 (3-12), 3/1/2 (0-8), 3/2 (4-0), 4 (8-0), 5 (7-0), 6 (7-0), 7 (8-0), 8/1 (0-13), 8/2 (7-7), 9/1 (8-0), 10 (8-0), 11 (8-0), 12/1 (7-18), 12/2 (0-2), 13/1/1 (5-6), 13/1/2 (0-9), 13/2/1 (0-4), 13/2/2 (2-0), 14 (8-0), 15 (7-0), 16/1 (1-18), 16/2/1 (0-8), 16/2/2 (4-13), 17/1 (2-1), 17/2 (5-16), 18 (8-0), 19/1 (0-8), 19/2 (7-12), 20 (8-0),21/1 (2-0), 21/2 (6-0), 22 (8-0), 23 (8-0), 24/1 (2-18), 24/2 (5-2), 25 (7-0), 26 (0-1), **83//** 1 (7-11), 2 (7-11), 3 (7-11), 4/1 (0-4), 4/2 (7-4), 5 (7-11), 6 (8-0), 7/1 (7-16), 7/2 (0-4), 8/1 (0-4), 8/2 (7-16), 9 (8-0), 10(8-0), 11 (8-0), 12(8-0), 13/1 (5-0), 13/2 (3-0), 14/1/1 (2-2), 14/1/2 (2-2), 14/1/3 (2-5), 14/2 (1-11), 15 (8-0), 16 (8-0), 17 (8-0), 18 (8-0), 19 (8-0), 20 (7-19), 21/1 (7-11), 21/2 (0-9), 22/1 (0-9), 22/2 (7-11), 23/1/1 (1-14), 23/1/2 (0-2), 23/2 (6-4), 24/1 (2-8), 24/2 (5-12), 25 (8-0), 26 (0-1), **84//** 1 (7-11), 2 (7-11), 3/1 (4-11), 3/2/1 (0-4), 3/2/2 (3-0), 4/1 (0-8), 4/2 (7-12), 5/1 (3-14), 5/2 (0-5), 6 (1-14), 7/1 (7-12), 7/2 (0-8), 8/1 (6-16), 8/2 (1-4), 9 (8-0), 10 (8-0), 11 (8-0), 12 (8-0), 13/1 (4-4), 13/2 (3-16), 14/1 (x-x), 14/2 (6-14), 17 (3-8), 18 (8-0), 19 (8-0), 20 (8-0), 21 (8-0), 22/1 (6-0), 22/2 (2-0), 23 (8-14), **85//** 1 (8-0), 2 (8-0), 3 (6-0), 8 (2-18), 9 (8-0), 10 (8-0), 11 (8-0), 12 (7-0), 19 (3-2), 20/1/1 (1-4), 20/1/2 (0-12), 20/2 (3-4), 21 (7-18), **86//** 1 (8-0), 2 (8-0), 3 (8-0), 4/1 (7-8), 4/2 (0-12), 5 (8-0), 6 (8-0), 7 (8-0), 8/1 (2-0), 8/2 (8-4), 8/3 (1-16), 9/1 (4-9), 9/2 (3-11), 10 (8-0), 11/1 (0-9), 11/2 (7-11), 12/1 (0-9), 12/2 (7-11), 13/1 (0-7), 13/2 (7-11), 14/1 (0-9), 14/2 (7-11), 15/1 (x-x), 15/2 (8-0), 16 (8-0), 17 (8-0), 18 (8-0), 19/1 (2-13), 19/2 (5-7), 20/1 (2-4), 20/2 (5-16), 21 (8-0), 22 (8-0), 23/1 (3-16), 23/2 (4-4), 24 (8-0), 25 (8-0), **87//** 1/1 (7-0), 1 / 2 (1-0), 2 (8-0), 3 (8-0), 4/1 (1-2), 4/2 (6-11), 5 (7-0), 6 (7-0), 7 (8-0), 8/1 (2-13), 8/2 (5-7), 9 (8-0), 10/1/1 (3-0), 10/1/2 (2-0), 10/2 (2-12), 10/3 (0-8), 11/1 (0-9), 11/2 (7-11), 12/1 (0-4), 12/2

(0-19), 12/3 (8-12), 13/1 (0-17), 13/2 (4-5), 13/3 (3-19), 14 (8-0), 15 (7-0), 16/1 (0-8), 16/2 (6-12), 17/1/1 (0-9), 17/1/2 (4-9), 17/2 (3-2), 18/1/1 (0-3), 18/1/2 (2-11), 18/2 (5-6), 19 (8-0), 20 (7-9), 21/1 (5-2), 21/2 (2-18), 22 (8-0), 23 (8-0), 24/1 (0-8), 24/2 (7-12), 25 (7-0), 26 (0-7), **88//** 4 (1-14), 5 (7-13), 6/1 (2-4), 6/2 (3-0), 15/1 (0-3), 15/2 (1-8), 25 (4-0), **89//** 4 (1-12), 5 (7-17), 6/1 (3-0), 6/2/1 (4-11), 6/2/2 (0-9), 7/1 (0-19), 7/2 (5-0), 13 (3-0), 14/1 (6-0), 14/2 (2-0), 15/1 (1-0), 15/2 (1-0), 15/3 (1-0), 15/4 (4-12), 15/5 (0-8), 16/1/1 (x-x), 16/1/2 (2-5), 16/2 (5-12), 17 (8-0), 18 (7-13), 19 (1-5), 22 (5-14), 23 (8-0), 24 (8-0), 25/1 (0-4), 25/2 (7-16), **90//** 1 (8-0), 2/1 (4-18), 2/2/1 (0-3), 2/2/2 (3-19), 3/1 (7-11), 3/2 (0-9), 4/1/1 (0-8), 4/1/2 (7-3), 4/2 (0-9), 5/1/1 (0-18), 5/1/2 (5-13), 5/2 (0-9), 6 (7-0), 7 (8-0), 8/1 (6-9), 8/2 (1-1), 9 (8-0), 10 (8-0), 11/1 (3-2), 11/2 (4-13), 12 (8-0), 13 (8-0), 14/1 (4-18), 14/2/1 (0-18), 14/2/2 (2-4), 15 (7-17), 16/1 (3-2), 16/2 (4-18), 17 (8-0), 18/1 (7-12), 18/2 (0-8), 19/1 (0-9), 19/2 (7-11), 20/1 (0-9), 20/2 (7-11), 21 (8-0), 22 (8-0), 23/1 (0-9), 23/2 (7-11), 24/1 (0-4), 24/2/1 (6-16), 24/2/2 (0-8), 25/1 (0-4), 25/2 (7-11), **91//** 1 (8-0), 2 (8-0), 3/1 (4-0), 3/2(c-0), 4/1 (x-x), 4/2 (8-0), 5 (8-0), 6 (8-0), 7/1 (7-12), 7/2 (0-8), 8/1 (4-0), 8/2 (4-0), 9 (8-0), 10 (8-0), 11/1 (0-3), 11/2 (6-11), 12 (6-18), 13 (6-18), 14 (6-18), 15 (6-18), 16 (8-0), 17 (8-0), 18 (8-0), 19/1 (4-16), 19/2 (3-4), 20/1 (7-12), 20/2 (0-4), 21/1 (8-0), 21/2 (0-0), 22 (8-0), 23 (8-0), 24 (8-0), 25 (8-0), **92//** 1 (3-12), 10 (3-14), 11/1 (1-11), 11/2 (0-7), 20/1 (1-10), 20/2 (0-4), 21/1 (1-2), 21/2 (x-x), **93//** 1 (0-7), **94//** 1 (8-0), 2 (8-0), 3 (8-0), 4 (7-19), 5/1 (0-1), 5/2 (7-19), 6/1 (0-8), 6/2 (6-12), 7 (8-0), 8 (8-0), 9 (8-0), 10 (8-0), 11 (8-0), 12 (8-0), 13 (8-0), 14 (8-0), 15/1 (3-14), 15/2/3 (0-9), 16 (0-10), 17 (7-8), 18 (8-0), 19 (8-0), 20 (7-0), 21 (0-5), 22 (4-0), 23 (7-13), 24 (4-10), 25 (0-1), **95//** 1 (8-0),2 (2-0), 3 (8-0), 4/1 (3-1), 4/2 (0-4), 4/3 (4-16), 5 (8-0), 6 (8-0), 7/1 (5-2), 7/2 (2-18), 8 (8-0), 9 (8-7), 10 (5-16), 13 (3-7), 14 (7-2), 15 (8-0), 16 (3-2), **96//** 2 (2-13), 3 (5-9), 4 (8-2), 5 (8-0), 6 (3-0), **97//** 3 (1-3), 4 (1-5), 101/1/1 (24-10), 117/2/1/1 (4-4), 118/2/1/2 (4-5), 121/2/2 (1-17), 122/1/2 (7-5), 123/1 (7-0), 131 (1-7), 132/1 (5-3), 134/1 (1-1), 144 (1-13) **fields no.787 measuring 464 acre 2 Kanal 5 marla.**

The landowners and the interested persons have accepted the measurement and the classification of the land and no objection in this regard have been received from the Acquiring Department also. The award of "Land Pooling Scheme" shall be announced later on.

COST OF LAND

No landowners and interested persons appeared in the pursuance of the notice u/s 9 of the LA Act.

The department was represented by Sh. **Jagdish Kadiyan, Assistant Manager(LA), HSIIDC, Kundli** who stated that the demand of the landowners was very high and the reasonable rate of land as sent by the Divisional Level Committee may be fixed. Ex-parte proceeding was taken against those, who did not appear. The landowners are entitled to have that price which prevailed at the time of publication of notification u/s 4 of the Act.

The commissioner, Rohtak Division, Rohtak presided over the Divisional Level Committee meeting on 5-03-2013 held at Deputy Commissioner's office room, Sonipat for fixation of the market rate of the land under acquisition. The Divisional Level Committee vide his letter endorsement no.281-83 Dated 11-03-2013 has supplied the market value/price/rate **Rs. 30,00,000/-** per acre for every kind of land.

Keeping in view the location of land and all other factors, which are essential for determination of the market value, I award **Rs. 30,00,000/-** per acre for every kind of land.

By applying the above-mentioned rate, the price of land under acquisition has been worked out as under:-

Class of Land Acquired	**Area under Acquisition**			**Total**
	Acre	**Kanal**	**Marla**	
Nahri/Chahi/Gair Mumkin	**464**	**2**	**8**	**139,29,60,000/-**

Price of land according to sub section 1-A section 23 of the Land Acquisition Act, 1894.

The landowners and interested persons will be entitled to **12% p.a (35.80%)** on the market value i.e **Rs.** 139,29,60,000/- according to sub section 1-A of section 23 of the Act, which comes to **Rs. 49,86,58,200/-**

The landowners and interested persons will be entitled to **30% solatium** which is consideration of compulsory nature of acquisition on the total price of land i.e Rs 139,29,60,000/-

which comes to **Rs. 41,78,70,000/-**

SHADOW TREES

Total thirty six shadow trees lie in the area under acquisition, whose assessment list was sent to me by Divisional Forest Officer, Sonipat. The list of assessment for trees is as under:-

Sr. No.	Name of owner	Khewat /Khata no.	Rect. & Killa No.	Type of property	Amount assessed by the dept.(in rupees)
1.	Shaker etc.	1	94//18	Kikar-3	3066

2.	Chand Ram	2	94/7	Shisam/vividh-2	7158
3.	Vikash etc.	10	95/2	Vividh-1	3170
4.	Ravinder etc.	12	74/17	Kikar-1	505
5.	Ranbir etc.	24	78/19	Vividh-1	1599
6.	Rajesh Devi etc.	25	78/13	Vividh-1	3170
7.	Ram Chander etc.	37	73/15	Vividh-1	1599
8.	RajSingh etc.	51	66/13, 89/23	Shisam-1 Kikar/Shisam/ vividh-5	25875 8323
9.	Smt.Rajpati etc.	52	82/5, 83/1	Vividh-1 Kiker-1	5935 3068
10.	Mahender Singh etc.	65	91/21/1	Kiker/shisam /vividh-4	1587
11.	Sudhir Singh etc.	134	81/23	Vividh-1	11587
12.	Dalip Singh etc	135	48/23	Shisam-1	2750
13.	Ram Karan etc.	165	75/19, 84/5/2	Shisam -2 Kiker/vividh/ shisam	12380 6854
14.	Sandeep etc.	211	79/7	Vividh-9	8051
15.	Ramehar etc.	220	82/23	Kiker-1	505
Total				**36**	**106772**

I accept the assessment made by the Divisional Forest Officer, Sonipat and award accordingly **Rs. 1,06,772/-** for the cost of shadow trees.

The landowners and interested persons will be entitled to 12% p.a (35.80%) from the date of notification u/s 4 on the aforesaid value of shadow trees i.e **Rs. 1,06,772/-** according to sub section 1-A of section 23 of the Act, which comes to **Rs. 38,224/-**

The landowners and interested persons will be entitled to 30% solatium which is consideration of compulsory nature of acquisition on the total price of shadow trees i.e **Rs 1,06,772/-** which comes to **Rs. 32,032/-**

FRUIT TREES

The supplementary award of fruit trees lie in the acquired land will be announced separately.

TUBEWELL

Total forty five tubewells come in the area under acquisition, whose assessment list has been sent to me by the Assistant Agriculture Engineer, Sonipat. The assessment list of tubewells area as under:-

Sr. No.	Name of owner	Khewat /Khata no.	Killa no.	Type of property	Amount of assessed by the deptt. (rupees)
1.	Anand s/o Ram Narain	9	74//25	Tubewell-1	13160
2.	Satbir Singh s/o Ram Narain	11	75//11/1	Tubewell-1 Tubewell-1	13160 13160
3.	Azad Singh s/o Ram Narain	13	75//20/2	Tubewell-1	13160
4.	Jodha s/o Sohbat etc.	30/44	65//19/2	Tubewell-1	13160
5	Ram Chander etc.	37	77//8	Tubewell-1	13160
6	Smt. Dhanpati etc.	39.	66//15/1	Tubewell-1	13160
7	Raj Singh etc.	51/74	66//18	Tubewell-1	13160
8	Bhoop Singh etc.	69	63//12/3	Tubewell-1	13200
9	Satbir Singh s/o Dalip Singh	75	81//7/1	Tubewell-1	13200
10	Anand Singh s/o Rishal Singh	85	63//20/2/2	Tubewell-1	13200
11	Ramesh Kumar etc.	86	63//11/1	Tubewell-1	18100
12	Satbir etc.	88	63//20/1	Tubewell-1	9000
13	Ram Kanwar s/o Bhale etc.	117	48//6. 7	Tubewell-1 Tubewell-1	13200 13200
14	Mahabir Singh etc.	118	48//9/1	Tubewell-1	17300
15	Jai Singh etc.	119	48//11/2, 12	Tubewell-1 Tubewell-1	17000 17000
16	Satbir Singh etc.	134	81//26	Tubewell-1	12960
17	Dalip Singh etc.	135	48//17 18 24	Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1	13160 13160 13200 13200
18	Sandeep Singh	154	77//6/1	Tubewell-1	13160
19	Kher Singh	159	65//12/2/1 4/2	Tubewell-1 Tubewell-1	13200 13200
20	Ram Karan etc.	165	75//20/1 22	Tubewell-1 Tubewell-1	13160 13160
21	Sombir	188	62//24/2	Tubewell-1	9000
22	Sultan	188	65//8/2	Tubewell-1	13160
23	Bijender	205	62//8 23/1	Tubewell-1 Tubewell-1	17000 17000
24	Azad singh	207	84//5/1 6	Tubewell-1 Tubewell-1	13160 13160
25	Jagmail etc.	218	90//8/1	Tubewell-1	13160
26	Dayanand etc.	219	87//19 88//25	Tubewell-1 Tubewell-1	13160 13160
27	Hawa Singh	234	89//13	Tubewell-1	26900
28	Rugh Nath etc.	235	46//23/2/2 87//13/1 89//6/2/2	Tubewell-1 Tubewell-1 Tubewell-1	13200 9000 13160
29	Smt. Dhankaur etc.	261	48//21/2, 22/2 63//3/1 10/1	Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1	13200 13200 13200 13200
Total				45	618260

I accept the assessment made by Assistant Agriculture Engineer, Sonipat and award accordingly Rs 6,18,260/- for the cost of tubewells.

The landowners and interested persons will be entitled to 12% p.a (35.30%) from the date of notification u/s 4 on the aforesaid value of tubewells i.e **Rs. 6,18,260/-** according to sub section 1-A of section 23 of the Act, which comes to **Rs. 2,21,337/-**

The landowners and interested persons will be entitled to 30% solatium which is consideration of compulsory nature of acquisition on the total price of tubewells i.e **Rs 6,18,260/-** which comes to **Rs. 1,85,478/-**

BUILDING & STRUCTURE

The supplementary award of the building & structure lies in the acquired land will be announced separately.

POSSESSION OF LAND

The possession of **464 acre 2 Kanal 8 marla** land under acquisition has been delivered to the concerned Department i.e **25-03-2013.**

MODE OF PAYMENT

Payment will be made to the land owners according to the shares and rights as entitled in the last "Jamabandi". However, on account of death of any landowner, the compensation could be paid to the legal heirs of the deceased. In case of dispute, the compensation amount will be kept in the Bank till the contesting parties come to an amicable settlement or get dispute decided by a competent court of law. Similarly in the case of absence of a landowner, the compensation amount will be kept in the bank till the original payees turns up.

The acquired land will vest absolutely in the Government, free from all encumbrances with effect today, the **25-03-2013**.

Subject to the above remarks, the award stands as follows:-

Sr. No.	Price	Amount	12% p.a (35.30%) u/s 23 (1A)	30% Solatium	Total
1.	Price of Land	1392900000	498638280	417870000	2309428209
2.	Price of shadow trees	106772	38224	32032	177028
3.	Price of tubewells	618260	221337	185478	1025075
Total		1393625032	498917761	418087510	231,06,30,303

(Rupees two hundred thirty one crore six lacs thirty thousand three hundred three only)

IX

Announced on 25-03-2013 at Tehsil, Kharkhoda in the presence of persons interested and notice u/s 12 (2) of the Act be issued to those who are not present.

District Revenue Officer-cum
Land Acquisition Collector, Sonipat

Place:- Tehsil, Kharkhoda
Dated:-25-03-2013
Endst. No. 167-73 /Kgo LA Sonipat Dated 1/04/2013

A copy of the above is forwarded to the following for information:-

1. Financial Commissioner & Secretary to Govt. of Haryana Industries Department, Chandigarh.
2. Director of Industries & Commerce, Haryana, Chandigarh.
3. Managing Director, Haryana State Infrastructure & Industries Development Corporation Ltd. Plot No. C 13-14, Sector-6, Panchkula
4. Deputy Commissioner, Sonipat. ...ial Estate, Kundli, Tehsil & District Sonipat.
5. Senior Manager(LA), HSIIDC, ...ted to enter and section the mutation of land in favour of
6. Tehsildar, Kharkhoda, he is r... Haryana State (HSIDC)

District Revenue Officer-cum
Land Acquisition Collector, Sonipat

DISTRICT SONIPAT

Award announced by Sh. Suresh Kumar, District Revenue Officer cum-Land Acquisition Collector, Sonipat

Award No. 49

Date of Award:- 28-03-2013

Village:- Rampur

In pursuance of the Govt. Notification **No.-2/1/4-11B-II-2010, dated 1-04-2010,** published in Govt. Gazette dated 1-04-2010 u/s-4 of the Land Acquisition Act, 1894 (hereinafter referred to as the Act) and declared vide Notification No. **2/1/4-11B-II-2010, Dated 4-04-2011** u/s 6 of the Land Acquisition Act, 1894 thereinafter published in Govt. Gazette dated 4-04-2011 Total land acquired is **4070 Bhiga 1 Biswa at village Rampur Hadbast No. 240** Tehsil Kharkhoda District Sonipat at public expense, for a public purpose, namely, for the development of Industrial Modern Township in revenue estate of villages Gopalpur, Pipli, Saidpur, Kundal, Rampur, Fatehpur, Banger, Nizampur Khurd, Sohati, Pahladpur and Bucana, Tehsil Kharkhoda District Sonipat

MEASUREMENT

The area given in the Notification u/s 6 of the Land Acquisition Act, 1894 is **4145 Bhiga 7 Biswa,** while the award has been announced of **4070 Bhiga 1 Biswa.** The difference of **75 Bhiga 7 Biswa** is due to clerical mistake. The land under acquisition lies in **1855** fields as per detail given in form no. 1, prepared under paragraph 36 of the Financial Commissioner standing order no. 28. I agree with the classification of the basis of entries in the "Jamabandi" for the year **2009-10.**

Class of Land Acquired	Area Under Acquisition Bhiga	Biswa
Class 'A' Nahri/Chahi/G.Mumkun	**81**	**14**
Class 'B' Nahri/Chahi/G. Mumkin	**3988**	**7**
	4070	**1**

The details of khasra Nos. of the land under acquisition are as under:- 1(4-6), 2 (2-2), 3 (0-18), 4 (2-13), 5 (2-13), 6 (3-18), 7 (3-0), 8 (3-0), 9 (3-0), 10 (3-0), 11/1 (3-7), 11/2 (1-13), 12 (3-0), 13/1 (0-13), 13/2 (2-7),14/1(0-8),14/2(2-12), 15(3-6),16/1(3-0),16/2(0-2),17 (2-16), 18/1 (0-17), 18/2 (1-3), 19 (3-0), 20 (3-0), 21 (3-4), 22 (1-13), 23/1 (2-11), 23/2 (0-3), 24 (1-1), 25 (0-15), 26 (1-4), 27 (4-0), 28 (3-11), 29/1 (0-12), 29 (2-8), 30 (2-17), 31 (2-17), 32 (3-0), 33 (3-0), 34/1(0-3), 34/2 (2-14), 35 (3-0), 36 (3-0), 37 (3-17), 38/1 (2-17), 38/2 (0-3), 39 (3-0), 40 (3-0), 41 (3-0), 42 (2-17), 43 (3-0),44/1(0-14), 44/2(2-6),45 (3-0), 46/1 (2-8), 46/2 (0-9), 47 (3-0), 48/1 (1-10), 48/2 (1-10), 49 (3-0), 50 (3-0), 51 (2-17), 52 (3-0), 53 (3-0),54(3-0),55 (3-0), 56 (2-17), 57 (3-0), 58 (3-

0), 59 (3-6), 60 (2-17), 61 (2-17), 62/1/1(0-3),62/1/2 (2-11), 62/2 (0-3),63 (2-17), 64 (2-17), 65 (1-4), 66/1 (0-18), 66/2 (0-3), 67/1 (1-13), 67/2 (0-14), 67/3 (0-1), 68 (3-0), 69 (3-0), 70 (3-0), 71 (2-16), 72 (4-19), 73 (2-19), 74 (3-0), 75 (3-0), 76 (2-1), 77 (4-3), 78 (3-6), 79 (2-1), 80 (3-0), 81 (3-0), 82 (3-0), 83 (3-0), 84/1 (1-18), 84/2 (1-2), 85 (2-17), 86 (2-17), 87 (2-17), 88 (2-17), 89 (2-17), 90 (3-0), 91 (3-0), 92 (3-0), 93 (2-17), 94 (3-0), 95 (1-16), 96 (1-4), 97/1 (1-8), 97/2 (1-9), 98 (3-0), 99 (3-0), 100 (2-17), 101 (2-17), 102 (3-0), 103 (3-0), 104 (2-17), 105 (3-0), 106 (3-0), 107 (0-14), 108/1 (2-5),108/2(0-9), 109(2-0), 110 (3-18), 111/1 (0-6), 111/2 (2-11), 112 (2-14), 113 (2-17), 114 (2-17), 115 (2-14), 116/1(1-8),116/2(1-12),117 (3-0), 118 (2-17), 119 (3-0), 120 (2-16), 121 (0-8), 122 (2-13), 123 (2-11), 124 (2-17), 125 (2-17), 126 (7-14), 127 (1-8), 128/1 (1-4), 128/2 (0-3), 128/3 (1-13), 129/1 (0-3), 129/2 (2-8),129/3(0-9), 130 (2-17), 131 (3-0), 132 (3-0), 133 (0-12), 134 (2-14), 135/2(0-6),135/1/1(1-6), 135/1/2(1-2),136 (0-18), 137 (2-17), 138 (3-0), 139 (2-17), 140 (3-15), 141 (2-17), 142 (2-17), 143 (3-0), 144 (2-17), 145 (2-17),146/1(1-10), 146/2(1-10),147/1(0-1), 147/2(0-11),147/3(2-6), 148 (3-0), 149 (2-13), 150 (0-18), 151 (1-12),152/1(0-3), 152/2(2-14),153/1(0-3),153/2(2-17), 154 (3-0), 155 (2-3), 156 (2-4), 157/1(2-14),157/2(0-6), 158/1(1-10), 158/2(0-6),159 (3-0), 160 (1-6), 161 (3-17), 162 (3-9), 162/1 (0-2), 164 (3-0), 165/1 (0-3) 165/2 (0-8), 165/3(2-10),166 (3-0),167/1 (0-3), 167/2 (2-17), 168/1 (0-3), 168/2 (0-3),168/3 (2-14),169/1 (0-3), 169/2 (2-11),169/3(0-3),169/4(0-3),170 (3-0),171(3-0),171/1/2(0-3),172/1/1(2-14), 172/2/1(0-3),172/2/2(0-0) 173 (3-0), 174 (3-0), 175 (3-0), 176/1 (0-3), 176/2 (3-17), 177 (2-17), 178 (2-17), 179 (2-17), 180 (2-17), 181 (2-17), 182/1 (0-6), 182/2 (2-14), 183/1 (0-6), 183/2/1 (2-11), 183/2/2/2 (0-3), 184 (3-0), 185 (2-17), 186 (0-15), 187 (0-18), 188 (3-0), 189 (3-0), 190 (3-0), 191(3-0),192 (3-0), 193 (3-0), 194 (2-17), 195 (3-0), 196 (2-17), 197 (2-14), 198 (3-0), 199/1 (2-17), 199/2 (0-3), 200/1 (2-17), 200/2 (0-3), 201 (3-0), 202 (3-0), 203 (3-0), 204 (3-0), 205 (3-0), 206 (0-12), 207 (0-6), 208 (2-17), 209 (2-17), 210 (2-17), 211 (2-17), 212 (2-17), 213 (1-01), 214 (2-17), 215 (3-0), 216 (3-0), 217/1 (1-15), 217/2 (1-5), 218 (3-0), 219 (3-0), 220 (3-0), 221 (3-0), 222 (3-0), 223 (2-17), 224 (3-0), 225 (3-0), 226 (3-0), 227 (3-0), 228 (3-0), 229 (3-0), 230 (3-0), 231 (3-0), 232 (3-0), 233 (3-0), 234 (2-17), 235 (2-17), 236 (3-0), 237 (3-0), 238/1 (0-9), 238/2 (3-0), 239 (0-9), 239/1 (0-6), 240 (3-0), 241 (3-0), 242 (2-17), 243 (3-9), 244 (4-16), 245 (3-6), 246 (3-0), 247 (2-17), 248 (2-8), 249 (2-2), 250 (3-0), 251 (3-0), 252 (1-13), 253 (4-4), 254 (3-12), 255 (2-17), 256 (1-15), 257 (2-8), 258 (2-17), 259 (2-17), 260 (2-17), 261 (2-17), 262 (3-0), 263 (3-0), 264 (3-0), 265 (2-5), 266 (0-15), 267 (2-11), 268 (2-8), 269 (2-17), 270 (0-6), 274 (0-15),275/1(2-6), 275/3 (0-1), 276 /3 (0-3), 277 / 2 (0-3), 278/2 (0-3), 279/2 (0-3), 280 (2-11), 281 (3-0), 282 (3-0), 283 (3-0), 284 (3-0), 285/1 (0-3), 285/2 (2-17), 286/1 (0-3), 286/2 (2-17),

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(3-7),1524 (1-10),1516(3-0),1521(3-0)1522(3-0),1526 (3-0),1527 (3-0),1528 (3-0),1529 (3-0),1530 (2-19),1531(4-12),1532(3-0), fields no. **1855** measuring **4070 Bhiga 1 Biswa.**

The landowners and the interested persons have accepted the measurement and the classification of the land and no objection in this regard have been received from the Acquiring Department also. The award of 'Land Pooling Scheme" shall be announced later on.

COST OF LAND

No landowners and interested persons appeared in the pursuance of the notice u/s 9 of the LA Act.

The department was represented by **Sh. Jagdish Kadiyan, Assistant Manager(IA), HSIIDC, Kundli** who stated that the demand of the landowners was very high and the reasonable rate of land as sent by the Divisional Level Committee may be fixed. Ex-parte proceeding was taken against those, who did not appear. The landowners are entitled to have that price which prevailed at the time of publication of notification u/s 4 of the Act.

The commissioner, Rohtak Division, Rohtak presided over the Divisional Level Committee meeting on 5-03-2013 held at Deputy Commissioner's office room, Sonipat for fixation of the market rate of the land under acquisition. The Divisional Level Committee vide his letter endorsement no.281-83 Dated 11-03-2013 has supplied the market value/price/rate **Rs. 35,00,000** /- per acre up to the depth of five acre from Kharkhoda to Delhi road and **Rs. 30,00,000/-** per acre for remaining land for every kind of land.

Keeping in view the location of land and all other factors, which are essential for determination of the market value, I award **Rs. 35,00,000** /- per acre up to the depth of five acre from Kharkhoda to Delhi road and **Rs. 30,00,000/-** per acre for remaining land for every kind of land.

By applying the above-mentioned rate, the price of land under acquisition has been worked out as under:-

Class of Land Acquired	Area under Acquisition		Total
	Bhiga	Biswa	
Class 'A'			
Nahri/Chahi/G.Mumkun	**81**	**14**	**5,95,72,917/-**
Class 'B'			
Nahri/Chahi/G. Mumkin	**3988**	**7**	**249,27,18,750 /-**
	4070	**1**	**255,22,91,667/-**

Price of land according to sub section 1-A section 23 of the Land Acquisition Act, 1894.

The landowners and interested persons will be entitled to 12% p.a **(35.90%)** on the market value i.e **Rs. 255,22,91,667** /- according to sub section 1-A of section 23 of the Act, which comes to **Rs. 91,62,72,708/-.**

The landowners and interested persons will be entitled to **30% solatium** which is consideration of compulsory nature of acquisition on the total price of land i.e **Rs. 255,22,91,667 /-** which comes to **Rs. 76,56,87,500 /-**

SHADOW TREES

The supplimnetary award of the shadow trees lie in the acquired land will be announced saperetaly.

FRUIT TREES

Total six thousand seven hundred thirty six fruit trees lie in the area under acquisition, whose assessment list has been sent to me by District Horticulture Officer, Sonipat. The list of assessment for the fruit trees is as under:-

Sr. No.	Name of owner	Khewat/ Khata no.	Khasra no.	Type of property	Amount assessed by the deptt. (rupees)
1.	Dharmbir	22	800, 854, 858, 859, 864, 865/2	Neembu-50, Anwala-54, Amrood-50, Neembu-40, Neembu-10, Amrood-40, Chiku-10, Amrood-40, Chiku-10	236500 793260 496500 189200 47300 385200 164500 385200 164500
2.	Dharmbir etc.	34	865/1, 866/1	Amrood-41, Chiku-9	394830 148050
3.	Inder Singh	52	475, 681, 682	Anar-200, Amrood-83 Beri-11 Jamun-1	713440 794400 336840 1190
4.	Sadanand etc.	60	161	Beri-1	7590
5.	Surender etc.	62	156	Mango-1	10270
6.	Kamlesh Kumar etc.	112	947/1, 1032, 1039, 1042, 1043, 1044, 1045, 1048, 1049, 1050, 1054/1, 1055/1, 1056/1	Amrood-16 Amrood-80 Amrood-100 Jamun-7 Amrood-115 Jamun-5 Amrood-118 Jamun-4 Amrood-106 Jamun-5 Amrood-30 Jamun-1 Amrood-160 Jamun-4 Amrood-97 Jamun-5 Amrood-120 Jamun-6 Amrood-90 Jamun-2 Amrood-112 Amrood-106 Jamun-4	154080 770400 963000 8330 1107450 5950 1136280 4760 1020780 5950 375570 1190 1030410 4760 934110 5950 1223010 7140 902252 2380 1078560 1020780 4760

7.	Smt. Hukam Kaur etc.	131	2	Shatoot-1	1500
8.	Dharampal	177	361, 362, 363, 364, 365, 366, 378/2, 379, 380, 381/1, 381/2,	Amrood-154 Jamun-61 Amrood-285 Jamun-21 Amrood-180 Jamun-42 Amrood-167 Jamun-25 Amrood-140 Jamun-32 Amrood-80 Jamun-40 Chiku-80 Amrood-42 Jamun-48 Chiku-88 Amrood-82 Jamun-55 Amrood-225 Jamun-62 Amrood-210 Jamun-54 Amrood-45 Jamun-26	1483020 88450 2744550 30450 1733400 60900 1550430 36250 1348200 46400 770400 59450 1316000 404460 69600 1447600 789660 79750 2166750 89900 2022300 78300 433350 37700
9.	Mehar Singh	192	146/1, 503/1, 945/2, 946/2	Amrood-152 Amrood-326 Amrood-324	1463760 3139380 3139380
10.	Attar Singh	261	828	Jamun-1	9070
11.	Attar Singh etc	264	819/1	Jamun-1	9070
12.	Ram Kishan	284	817, 818, 829, 830, 831, 832, 1308 1311, 1314/3, 1414	Chiku-100 Chiku-72 Chiku-159 Amrood-20 Chiku-146 Amrood-332 Chiku-68 Amrood-253 Chiku-77 Amrood-240 Amrood-137 Neembu-31 Amrood-325	1727250 1184400 2615550 192600 2401700 3197108 1118600 2436390 1266650 2349720 1319110 146630 3227250
13.	Kulbir Singh etc	287	690	Jamun-1 Amrood-1	9070 4280
Total				**6736**	**6,68,82,420**

I accept the assessment made by the Divisional Horticulture Officer, Sonipat and award accordingly **Rs. 6,68,82,420/-** for the cost of fruit trees.

The landowners and interested persons will be entitled to 12% p.a (35.90%) from the date of notification u/s 4 on the aforesaid value of fruit trees i.e **Rs. 6,68,82,420/-** according to sub section 1-A of section 23 of the Act, which comes to **Rs. 2,40,10,789/-**

The landowners and interested persons will be entitled to **30% solatium** which is consideration of compulsory nature of acquisition on the total price of fruit trees i.e **Rs 6,68,82,420/-** which comes to **Rs. 2,00,64,726/-**

TUBEWELL

Total two hundred sixty six tubewells come in the area under acquisition, whose assessment list has been sent to me by the Assistant Agriculture Engineer, Sonipat. The assessment list of tubewells area as under:-

Sr. No.	Name of owner	Khewat /Khata no.	Khasra no.	Type of property	Amount of assessed by the deptt. (rupees)
1.	Raj singh S/o Harnaryan	1	1379 1385 1411 1456 1457	Tubewell-1 Tubewell-1 Tubewell-1 well-1 Tubewell-1	17750 17750 17750 21600 17750
2.	Rohtash S/o Harnaryan	2	1397 1398 1443/2 1445	Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1	13550 13550 13550 27500
3	Bhim singh S/o Gordhan	4	1394/2 1446	Tubewell-1 Tubewell-1	14400 14400
4	Mahtab S/o Gordhan	5	1407	Tubewell-1	14400
5	Satbir S/o Gordhan	7	1434/2	Tubewell-1	14400
6	Zile singh S/o Shiv lal	10	555 556 768 769 770 989	Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1	14400 14400 14400 14400 14400 14400
7	Ishwar singh S/o Shera	11 min	568	Tubewell-1	17750
8	Kartar singh S/o Shera	11min	559/1 772	Tubewell-1 Tubewell-1	17750 10700
9	Manoj kumar Etc.	16	902 907 910	Tubewell-1 Tubewell-1 Tubewell-1	17700 17700 17700
10	Ved singh Etc.	17	903/2 919	Tubewell-1 Tubewell-1	17000 17000
11	Nafe singh S/o Fadhay singh	18	904/1	Tubewell-1	18200
12	Dharmbir S/o Hosiyar	22	140	Tubewell-1	36160
13	Dyanand S/o Maiya	25	644	Tubewell-2	35500
14	Raghubir S/o maiya	26	847/3	Tubewell-1	10950
15	Nand lal /o Pale Ram	28	850	Tubewell-2	28800
16	Dharmbir Etc.	34	128/2 845/1 865/1	Tubewell-1 Tubewell-1 Tubewell-1	6900 6900 6900
17	Krishan S/o Ram singh	35	106 930 931	Tubewell-1 Tubewell-1 Tubewell-1	14400 14400 14400

			935	Tubewell-1	14400
			937	Tubewell-1	14400
18	Pawan kumar Etc.	36	117	Tubewell-1	10050
			863	Tubewell-1	10050
19	Krishan kumar Etc.	37	921/1	Tubewell-1	18600
		37/42		Tubewell-1	18600
			1063	Tubewell-1	13550
20	Banwari S/o Bharta	40	640	Tubewell-1	13550
			898	Tubewell-1	13550
			1083	Tubewell-1	13550
			1095	Tubewell-1	13550
			1003/1	Tubewell-1	13550
21	Diwan singh S/o Bharta	42	884/2	Tubewell-1	12800
			885	Tubewell-1	12800
			1027	Tubewell-1	12800
			1084	Tubewell-1	12800
			1086	Tubewell-1	12800
			1096	Tubewell-1	12800
22	Smt.Sujani Devi Etc.	45	887/2	Tubewell-1	12800
			900	Tubewell-1	12800
			1024	Tubewell-1	12800
			1089	Tubewell-1	12800
			1091	Tubewell-1	12800
			1097	Tubewell-1	12800
			1098	Tubewell-1	12800
23	Inder singh S/o Balbir	52min	475	Tubewell-1	12800
			713	Tubewell-1	12800
24	Balwan singh S/o Balbir	52min	301	Tubewell-1	12800
25	Smt. Sunita Etc.	52min	287/2	Tubewell-1	12800
26	Diwan singh Etc.	54/65	794	Tubewell-1	12800
27	Omparkash Etc.	56	468/2	Tubewell-1	18750
28	Naki Etc.	58	452	Tubewell-1	19500
29	Sadanand Etc.	60	161	Tubewell-1	18600
			1073/2	Tubewell-1	18600
30	Amar singh S/o Rupchand	61	1070	Tubewell-1	14400
31	Smt.Sarbati Etc.	71/83	481	Tubewell-1	14400
32	Gordhan Etc	72	477	Tubewell-1	18750
33	Raj singh Etc.	87	803/2	Tubewell-1	14400
			976	Tubewell-1	14400
			985/2	Tubewell-1	14400
34	Tara chand Etc.	89	970	Tubewell-1	52580
35	Chatar singh S/o Ratan singh	90min	799/2	Tubewell-1	46845
36	Shiv Naryan S/o Rampath	92	716	Tubewell-1	14400
37	Satyaparkash S/o Rampath	94	715	Tubewell-1	14400
38	Omparkash S/o Naki	96	683	Tubewell-1	14400
39	Ragvir S/o Naki	97	453	Tubewell-1	17700

40	Smt.Rattni Etc.	99	451 671	Tubewell-1 Tubewell-1 Tubewell-1	17700 17700
41	Mehar sing.Etc	101	155	Tubewell-1	11500
42	Jagveer.Etc	103	342/1	Tubewell-1	14400
43	Jai singh Etc.	104	165/3	Tubewell-1	12800
44	Rajveer Etc	106	176/2 177 185 325	Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1	12800 12800 12800 12800 13550
45	Mool Chand Etc.	110	661 938 1047 669	Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1	18600 18600 18600 18600
46	Kamlesh kumar Etc.	112	1039 1042 1050 1056/1	Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1	28800 82500 28800 28800
47	Puran Etc.	115	1367/2/1/1	Tubewell-1	18600
48	Sarjo Etc.	116	1241 1368 1375	Tubewell-1 Tubewell-1 Tubewell-1	12700 12700 12700
49	Bhim singh	119	1237 1513	Tubewell-1 Tubewell-1	12800 12600
50	Rajveer Etc.	121	448 521 523 1527 1532	Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1	14400 14400 14400 14400 14400
51	Omparkash Etc.	123	893 1061 1067 1078/2	Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1	39600 14400 14400 14400
52	Hoshiyar singh Etc.	125	745	Tubewell-1	14400
53	Ranbir Etc.	127	747 750/2 751 752 1439/2 1441	Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1	14400 14400 14400 14400 14400 14400
54	Sardar singh Etc.	129	760	Tubewell-1	26000
55	Smt.Hukam Kour Etc.	131	1 7 10 658	Tubewell-1 Tubewell-1 Tubewell-1 well-1	17000 17000 17000 28800
56	Ram Sarup S/o Surta	131min	654	Tubewell-1	27000
57	Ramsarup Etc.	132min	655	Tubewell-1	27000
58	Balveer Etc	134	56 58 59 651/1	Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1	10800 10800 10800 10800
59	Hukam Kour Etc.	135	556	Tubewell-1	17000
60	Krishan Etc.	138	939	Tubewell-1	10800
61	Smt.Gyano Etc.	141/161	733 735	Tubewell-1 Tubewell-1	14400 14400
62	Smt.Gyano Etc.	145	731 740	Tubewell-1	14400 14400
63	Satpal singh S/o Mayaram	146	93 108/1	Tubewell-1 Tubewell-1	10700 10700

64	Balbeer S/o Mayaram	147	88 92	Tubewell-1 Tubewell-1	10700 10700
65	Jagdish chander Etc.	148	90	Tubewell-1	12300
66	Raj singh S/o Ragbir	151	60	Tubewell-1	17000
67	Banwarilal Etc.	154	62/1/1	Tubewell-1	17000
68	Surja Etc	156	1115 1128 1114	Tubewell-1 Tubewell-1 Tubewell-1	12800 12800 12800
69	Rai singh S/o Tekram	157	1116 1138 1139	Tubewell-1 Tubewell-1 Tubewell-1	12800 12800 12800
70	Ram Mehar S/o Tally	159	994 1000 1001	Tubewell-1 Tubewell-1 Tubewell-1	14400 14400 14400
71	Rajbir Etc.	161	10036 1156 1489 1510 1520 537	Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1	14400 14400 14400 14400 14400 14400
72	Subash.Etc	163	1650	Tubewell-1	14400
73	Narayan singh S/o Chandgi	165	1430	Tubewell-1	14400
74	Satbir S/o Ranjeet	168	959 1506	Tubewell-1 Tubewell-1	18210 18210
75	Omkanwar Etc.	169	550/1 968/1	Tubewell-1 Tubewell-1	14400 14400
76	Rajveer singh Etc.	170	1499	Tubewell-1	33800
77	Raj Kanwar S/o Randheer	173	369	Tubewell-1	14400
78	Raghbir S/o Ratiram	174	621	Tubewell-1	17750
79	Jai singh S/o Ratiram	175	376	Tubewell-1	14400
80	Daryav singh S/o Shiv Narain	176	375/2 389	Tubewell-1 Tubewell-1	14400 14400
81	Dharm pal S/o Fateh	177	365 381/1 381/2	Tubewell-1 Tubewell-1 Tubewell-1	48000 48000 48000
82	Balraj Etc.	178	388	Tubewell-1	12800
83	Dalip singh Etc.	180	735	Tubewell-1	14400
84	Smt.Roshni Etc	181	203	Tubewell-1	10700
85	Nawab singh S/o Shri Ram	184	38/1	Tubewell-1	14900
86	Vijay singh Etc	187	413 414 422	Tubewell-1 Tubewell-1 Tubewell-1	14400 14400 14400
87	Birbal Etc	188	320 404 535 542	Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1	12800 12800 12800 12800
88	Chand Ram S/o Chatter singh	191	495	Tubewell-1	18200
89	Mehar singh S/o Chatter singh	192min	5-3/2 506/2	Tubewell-1 Tubewell-1	14400 14400

90	Raj singh S/o Chatter singh	193	943/1	Tubewell-1	14400
91	Ved Parkash Etc.	194	504 505	Tubewell-1 Tubewell-1	21000 21000
92	Braham Parkash Etc.	199	708 1290 1317 1349 1350 1353 1354	Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1	19100 19100 19100 19100 19100 19100 19100
93	Dharm singh S/o Mer singh	200	234	Tubewell-1	11400
94	Reena Etc.	203	111/2	Tubewell-1	41200
95	Ramsarup S/o Surta	209min	14/2	Tubewell-1	13200
96	Smt.Kitabo Etc.	222	763 1316	Tubewell-1 Tubewell-1	14400 14400
97	Naresh kumar S/o Ramchander	227	771	Tubewell-1	14400
98	Amar singh S/o Shrichand	230	952	Tubewell-1	17750
99	Gopi chand Etc.	231	963	Tubewell-1	14400
100	Dalel singh S/o Balwant	233	1493/1	Tubewell-1	14400
101	Shri Krishan S/o Hanvant singh	237	1495	Tubewell-1	14400
102	Smt.Jagvanti Etc.	240	354/2/1	Tubewell-1	18600
103	Sukbir singh S/o Bhartu	243	359/2 560/1	Tubewell-1 Tubewell-1	13550 13550
104	Sunil kumar S/o Joginder singh	255	338	Tubewell-1	14400
105	Bijender S/o Jai karan	260	827/2/1	Tubewell-1	18600
106	Attar singh S/o Mahavir singh	261	1289/2	Tubewell-1 Tubewell-1	13550 14400
107	Chand singh S/o Mahavir singh	262	820/1	Tubewell-1	14400
108	Rajbir S/o Balakram	265	826/2 954	Tubewell-1 Tubewell-1	49130 49130
109	Hukam chand S/o Chalu	268	533 526	Tubewell-1 Tubewell-1	17250 17250
110	Mahavir Etc.	274	782	Tubewell-1	14400
110	Narender Etc.	276	1246 1252/2 1267	Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1	13350 13350 13350 14400
111	Parkash Etc	277	1262/1	Tubewell-1	14850
112	Omparkash Etc.	280	251 259 263 265 1007 1010 1019	Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1	12800 12800 12800 12800 12800 12800 12800

113	Smt.Saroj Etc.	282	836/2 844 1324/1	Tubewell-1 Tubewell-1 Tubewell-1	14400 14400 14400
114	Zile singh S/o Badlu	283	839/2 841 1344/1	Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1	14400 14400 14400 14400
115	Ramkishan S/o Badlu	284	1414	Tubewell-1	13550
116	Kuldeep singh Etc.	286	1391 1392	Tubewell-1 Tubewell-1	14400 14400
117	Kulbir singh Etc.	287	698 700 1313 1322 1362	Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1	18000 18000 18000 18000 18000
118	Kuldeep Etc.	288	685 702 705 707	Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1	17000 17000 17000 17000
119	Rattan singh Etc.	299	673	Tubewell-1	14400
120	Samlat Panna	301/335	5	Tubewell-1	14400
121	Gram Panchayt	375/396	1175 118 119 120 124 130 1193 1196	Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1	17000 17000 17000 17000 17000 17000 17000 17000
Total				266	4447110

I accept the assessment made by Assistant Agriculture Engineer, Sonipat and award accordingly Rs. 44,47,110/- for the cost of tubewells.

The landowners and interested persons will be entitled to **12% p.a** (36.90%) from the date of notification u/s 4 on the aforesaid value of tubewells i.e **Rs. 44,47,110/-** according to sub section 1-A of section 23 of the Act, which comes to **Rs. 15,96,512/-**

The landowners and interested persons will be entitled to **30% solatium** which is consideration of compulsory nature of acquisition on the total price of tubewells i.e **Rs 44,47,110/-** which comes to **Rs. 13,34,133/-**

BUILDING & STRUCTURE

The supplementary award of the building & structure lies in the acquired land will be announced separately.

POSSESSION OF LAND

The possession of **4070 Bhiga 1 Biswa** land under acquisition has been deliyered to the concerned Department i.e **28-03-2013.**

MODE OF PAYMENT

Payment will be made to the land owners according to the shares and rights as entitled in the last "Jamabandi". However, on account of death of any landowner, the compensation could be paid to the legal heirs of the deceased. In case of dispute, the compensation amount will be kept in the Bank till the contesting parties come to an amicable settlement or get dispute decided by a competent court of law. Similarly in the case of absence of a landowner, the compensation amount will be kept in the bank till the original payees turns up.

The acquired land will vest absolutely in the Government, free from all encumbrances with effect today, the **28-03-2013**.

Subject to the above remarks, the award stands as follows:-

Sr. No.	Price	Amount	12% p.a (35.90%) u/s 23 (1&A)	30% Solatium	Total
1.	Price of Land	2552291667	916272708	765687500	4234251876
2.	Price of fruit trees	66882420	24010789	20064726	110957935
3.	Price of tubewells	4447110	1596512	1334133	4359965321
Total		**2623621197**	**941880010**	**787086359**	**435,25,87,566**

(Rupees four hundred thirty five crore twenty five lacs eighty seven thousand five hundred sixty six only)

Announced on **28-03-2013 at Tehsil, Kharkhoda** in the presence of persons interested and notice u/s 12 (2) of the Act be issued to those who are not present.

District Revenue Officer-cum
Land Acquisition Collector, Sonipat

Place:- Tehsil, Kharkhoda
Dated:-28-03-2013

Endst. No. 167-73 **/Kgo LA Sonipat** **Dated** 2-4-2013

A copy of the above is forwarded to the following for information:-

1. Financial Commissioner & Secretary to Govt. of Haryana Industries Department, Chandigarh.
2. Director of Industries & Commerce, Haryana, Chandigarh.
3. Managing Director, Haryana State Infrastructure & Indnstries Development Corporation Ltd. Plot No. C 13-14, Sector-6, Panchkula.
4. Deputy Commissioner, Sonipat.
5. Senior Manager(IA), HSIIDC, Industrial Estate, Kundli, Tehsil & District Sonipat.
6. Tehsildar, Kharkhoda, he is requested to enter and section the mutation of land in favour of Haryana State (HSIIDC)

District Revenue Officer-cum
Land Acquisition Collector, Sonipat

DISTRICT SONIPAT

Award announced by Sh. Suresh Kumar, District Revenue Officer cum-Land Acquisition Collector, Sonipat

Award No. 50

Date of Award:- 1-04-2013

Village:- Kundal

In pursuance of the Govt. Notification No.-2/1/4-1IB-II-2010, dated 1-04-2010, published in Govt. Gazette dated 1-04-2010 u/s-4 of the Land Acquisition Act, 1894 (hereinafter referred to as the Act) and declared vide Notification No. 2/1/4-1IB-II-2010, Dated 4-04-2011 u/s 6 of the Land Acquisition Act, 1894 thereinafter published in Govt. Gazette dated 4-04-2011 Total land acquired is **3916 Bigha 0 Biswa** at village Kundal Hadbast No. 241 Tehsil Kharkhoda District Sonipat at public expense, for a public purpose, namely, for the development of Industrial Modern Township in revenue estate of villages Gopalpur, Pipli, Saidpur, Kundal, Rampur, Firozpur, Banger, Nizampur Khurd, Sohati, Pahladpur and Borna, Tehsil Kharkhoda District Sonipat

MEASUREMENT

The area given in the Notification u/s 6 of the Land Acquisition Act, 1894 is 3936 **Bigha 12 Biswa**, while the award has been announced of **3916 Bigha 0 Biswa**. The difference of 11 **Bigha 8 Biswa** is because this area is already Govt. land. The difference of 9 Bigha 4 Biswa is due to miscalculation. The land under acquisition lies **1637** fields as per detail given in form no. 1. prepared under paragraph 36 of the Financial Commissioner standing order no. 28. I agree with the classification of the basis of entries in the "Jamabandi" for the year **2010-11.**

Class of Land Acquired	Area Under Acquisition	
	BIGHA	BISWA
Nahri/Chahi/Gair Mumkin	3916	0

The details of khasra Nos. of the land under acquisition are as under:- 1(3-1), 2(3-7), 4 (3-0), 5 (2-14), 6 (2-2), 7(2-3), 8(1-15), 9(3-0), 10(2-17), 11 (3-0), 12(3-0), 13(3-0), 14(3-0), 15(3-0), 16(3-0), 17(3-0), 18(1-18), 19(3-6), 20(1-13), 21(3-0), 22(3-0), 23(3-0), 24/1 (0-3), 24/2(2-17), 25 / 1 (0-3), 25/2(2-17), 26 / 1 (0-3), 26/2(2-17), 27(2-14), 28(2-17), 29(3-0), 30(2-17), 31(3-0), 32(3-0), 33(3-0), 34(3-0), 35(4-1), 36(3-0), 37(3-0), 38(1-4), 39(3-0), 40(3-0), 41(1-7), 42(3-0), 43/1(2-17), 43/2 (0-3), 44/1 (0-0), 44/2(3-0), 45(3-0), 46(2-17), 47(3-0), 48/1(0-5), 48/2(2-15), 49(2-17), 50(3-0), 51/1/1(2-8), 51/1/2(0-3), 51/2(0-9), 51/3(0-0), 52(3-0), 53(3-0), 54/1(1-8),54/2(1-

0), 55(1-4), 56/1(1-15),56/2(1-5), 57(3-0), 58(2-11), 59(3-18), 60/1(1-1), 60/2(1-19), 61/1(1-10),61/2(1-10), 62(1-4), 62/1(0-18), 62/2/1(0-9), 62/2/2(0-9), 63(3-0), 64(3-0), 65/1(0-3), 65/2(2-17), 66(3-0), 67(2-17), 68(3-0),69/1(0-3), 69/2(2-17), 70(2-17), 71/1(0-6), 71/2(2-14), 72/1/1(0-6), 72/1/2(0-0), 72/2/1(2-11), 72/2/2(0-3), 73.(3-0), 74(3-0), 75(3-0), 76(3-0), 77(3-0), 78(3-0), 79(1-13), 80(1-7), 81(2-7), 82(3-15), 83(3-15), 84(3-15), 85(3-15), 86(3-15), 87(3-15), 88/1(0-4), 88/2 (3-11), 89(3-15), 90(3-11),91/1(3-11),91/2(0-4), 92(3-15), 93(3-0), 94(3-0), 95(3-0), 96(3-0), 97/1(1-8), 97/2(1-12), 98(2-11), 99(2-11), 100(4-6), 101(3-17), 102(3-8), 103(2-19), 104(2-10), 105(2-4), 106(2-1), 107(1-15), 108(1-4), 109(3-5), 110/1(2-17), 110/2(0-3), 111/1(2-17), 111/2(0-3), 112(2-17), 113(2-17), 114(2-17), 115(2-17), 116(2-17), 117(2-17), 118(3-0), 119(3-0), 120(3-0), 121/1(0-3), 121/2(0-3), 122(3-0), 123(2-17), 124(3-0), 125/1(0-6), 125/2 (2-14), 126/1(2-11), 126/2(0-9), 127/1(1-1), 127/2(1-1), 128/1(1-7), 128/2(1-10), 128/3(0-3), 129(3-0), 130(2-17), 131(3-0), 132/1 (2-17), 132/2(0-3), 133(3-0), 134(3-0), 135(3-0), 136(3-0), 137(3-0), 138(3-0), 139/1(0-3), 139/2(2-17), 140/1(2-16), 140/2(0-4), 141(2-17), 142(3-0), 143/1(0-3), 143/2(2-17), 144(3-0), 145/1(0-3), 145/2 (2-17), 146/1(0-6), 146/2(2-14), 147/1(0-3), 147/2(2-17), 148(2-17), 149/1(0-4), 149/2/1(0-1), 149/2/2(0-3), 150(3-0), 151(3-0), 152(3-0), 153(3-0), 154(3-0), 155(3-15), 156(3-15), 157(3-0), 158(3-0), 159(3-15), 160(3-15), 161(3-0), 162/1(2-16) 162/2(0-4), 163/1(3-11), 163/2(0-4), 164/1(0-3), 164/2(3-8), 165(2-17), 166(3-0), 167/1(0-3), 167/2/1(0-6), 167/2/2(3-6), 168/1(0-4), 168/2(3-11), 169/1(0-3), 169/2(2-17), 170(2-2), 171(3-15), 172(4-1), 173(1-0), 174(3-12), 175(2-2), 176(3-0), 177(3-0), 178/1(1-16), 178/2(3-2), 179(3-12), 180(5-8), 181(4-4), 182/1(1-6), 182/2(0-2), 182/3(0-2), 183/1(2-17), 183/2(0-3), 184(3-0), 185(3-0), 186(3-0), 187(3-0), 188(3-0), 189(3-0), 190/1(0-3), 190/2(2-17), 191/1(1-4), 191/2(1-16), 192(3-0), 193(3-0), 194(3-0), 195(3-0), 196(3-15),197(3-15), 198(3-15), 199(3-15), 200(3-15), 201(3-0), 202(3-0), 203(3-0), 204/1(0-9), 204/2(2-1), 205/1(1-4), 205/2(3-9), 206(1-10), 207(3-0), 208(3-15), 209(3-15), 210(3-0), 211(3-0)212(3-15),213(3-0), 214(2-10) , 215/1(1-1) , 215/2(1-19) , 216(3-0) , 217(3-0) , 218(3-0) , 219(3-15) , 220(2-5) , 221(1-10) , 222/1(2-8) , 222/2(1-7) , 223(3-0) ,224/1(4-15), 224/2(0-7), 225/1(3-3) ,225/2(1-12), 226(4-9) , 227(4-1) , 228(3-12) , 229(3-0) , 230(3-0) , 231(3-9) , 232(1-12) , 233(1-7) , 234(3-15), 235(3-15), 236(2-13),237(4-3), 238(3-15), 240/1(1-3), 240/2(1-17),241/1(1-19),241/2(1-7), 242(3-0),243(3-0), 244/2(1-14),245/1(2-9), 245/2(1-6), 246(3-0),247/1(1-14), 247/2(0-19),248(2-13), 249/1 (0-16),249/2(0-1), 249/3(1-19),250/2(0-3), 250/1(2-17), 251/1(0-9), 251/2(2-11), 252(3-15), 253/1(0-4),253/2/1(3-11), 253/2/2(0-1), 254/1(2-11), 254/2(1-4),255/1(2-17), 255/2(0-3), 256(3-2), 257/1(1-11), 269(1-15), 272/1(0-3), 272/2(1-13), 273(1-16), 274(1-16),

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(2-19), 1649 (1-16), 1650 (2-4), 1651 (3-0), 1652 (3-0), 1653 (3-0), 1654 (3-0), 1658 (3-0), 1684/3(3-9), 1685/3(0-6), fields no. **1637** measuring **3916 Bigha 0 Biswa.**

The landowners and the interested persons have accepted the measurement and the classification of the land and no objection in this regard have been received from the Acquiring Department also. The award of 'Land Pooling Scheme" shall be announced later on.

COST OF LAND

No landowners and interested persons appeared in the pursuance of the notice u/s 9 of the LA Act.

The department was represented by **Sh. Jagdish Kadiyan, Assistant Manager(LA), HSIIDC, Kundli** who stated that the demand of the landowners was very high and the reasonable rate of land as sent by the Divisional Level Committee may be fixed. Ex-parte proceeding was taken against those, who did not appear. The landowners are entitled to have that price which prevailed at the time of publication of notification u/s 4 of the Act.

The commissioner, Rohtak Division, Rohtak presided over the Divisional Level Committee meeting on 5-03-2013 held at Deputy Commissioner's office room, Sonipat for fixation of the market rate of the land under acquisition. The Divisional Level Committee vide his letter endorsement no.281-83 Dated 11-03-2013 has supplied the market value/price/rate **Rs. 30,00,000** /- per acre for every kind of land.

Keeping in view the location of land and all other factors, which are essential for determination of the market value, I award **Rs. 30,00,000** /- per acre for every kind of land.

By applying the above-mentioned rate, the price of land under acquisition has been worked out as under:-

Class of Land Acquired	Area Under Acquisition		Total
	Bigha	Biswa	
Nahri/Chahi/Gair Mumkin	3916	0	244,75,00,000/-

Price of land according to sub section 1-A section 23 of the Land Acquisition Act, 1894.

The landowners and interested persons will be entitled to 12% p.a (36.03%) on the market value i.e **Rs. 244,75,00,000**/-according to sub section 1-A of section 23 of the Act, which comes to **Rs. 88,18,34,250/-**

The landowners and interested persons will be entitled to 30% solatium which is consideration of compulsory nature of acquisition on the total price of land i.e **Rs. 244,75,00,000**/- which comes to **Rs. 73,42,50,000/-**

SHADOW TREES

The supplementary award of shadow trees lie in the acquired land will be announced separately.

FRUIT TREES

Total two thousand seven hundred thirty three trees lie in the area under acquisition, whose assessment list has been sent to me by District Horticulture Officer, Sonipat. The list of assessment for the fruit trees is as under:-

Sr. No.	Name of owner	Khewat/Khata no.	Rect. & killa no	Type of property	Amount assessed by the deptt. (rupees)
1.	Smt. Vidya Devi etc.	108	475, 476, 489 490 499 500 508 509 510 511	Jamun-36 Amrood-12 Chiku-55, Orange-162 Jamun-45, Amrood-253, Chiku-36, Amrood-273, Jamun-46, Jamun-35 Amrood-208 Jamun-39 Amrood-204 Jamun-31 Amrood-200 Jamun-30 Amrood-108 Chiku-34 Orange-64 Jamun-39 Amrood-284 Chiku-12 Jamun-42 Amrood-208 Chiku-12 Jamun-32 Chiku-63 Amrood -170	52200 115560 904750 1002780 65250 2436390 592200 2628990 66700 50750 2003040 56550 1964520 49950 1926000 43500 1040040 559300 396160 49300 2734920 197400 60900 1809600 197400 46400 1036250 1637100
Total				2733	**2,37,23,900**

I accept the assessment made by the Divisional Horticulture Officer, Sonipat and award accordingly Rs. **2,37,23,900/-** for the cost of fruit trees.

The landowners and interested persons will be entitled to 12% p.a (36.03%) from the date of notification u/s 4 on the aforesaid value of fruit trees i.e Rs. **2,37,23,900/-** according to sub section 1-A of section 23 of the Act, which comes to Rs. **85,47,721/-**

The landowners and interested persons will be entitled to 30% solatium which is consideration of compulsory nature of acquisition on the total price of fruit trees i.e Rs **2,37,23,900/-** which comes to Rs. **71,17,170/-**

TUBEWELL

Total two hundred thirty two tubewells come in the area under acquisition, whose assessment list has been sent to me by the Assistant Agriculture Engineer, Sonipat. The assessment list of tubewells area as under:-

Sr. No.	Name of owner	Khewat /Khata no.	Khasra no.	Type of property	Amount of assessed by the deptt. (rupees)
1.	Deepak s/o Shri Krishan	1	1522/1/1 1540	well-1 Tubewell-1	28800 15900
2.	Kuldeep s/o Shri Krishan	2	583/1 1523 1542	Tubewell-1 Tubewell-1 Tubewell-1	14400 15900 15900
3.	Shri Krishan s/o Omparkash	3	594	Tubewell-1	14400
4.	Jai Pal etc.	4	657 1533 1543	Tubewell-1 Tubewell-1 Tubewell-1	14400 14400 14400
5	Smt. Bhani Devi etc.	8	576 577 578/1 589 589/1	Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1	14000 14000 14000 14000 14000
6	Tajender s/o Om Sidh	12	343	Tubewell-1	14000
7	Narender Singh s/o Om Sidh	13	342	Tubewell-1	14000
8	Ravinder Singh s/o Om Parmatama	15	26/2, 31	Tubewell-1 Tubewell-1	13550 13550
9	Yogender s/o Omparmatama	16	17, 27	Tubewell-1 Tubewell-1	13550 13550
10	Vikash s/o Ravinder	17	1106	Tubewell-1	11450
11	Akash s/o Yogender	18	1242, 1249, 1250	Tubewell-1 Tubewell-1 Well-1	13550 13550 28910
12	Smt. Krishna w/o Omparmatma	19	1236 1243	Tubewell-1 Tubewell-1	13550 13550
13	Himanshu s/o Sunil Kumar	24	89, 1177, 1178, 1179	Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1	13100 12780 12780 12780
14	Sunil Kumar s/o Jagdish Chander	25	658/1, 654	Tubewell-1 Tubewell-1	13100 13100
15	Jagbir Singh s/o Sultan Singh	26	1211, 1212/2	Tubewell-1 Tubewell-1	12800 12800
16	Vishal Singh s/o Surender Singh	27	65/2, 66, 71/1	Tubewell-1 Tubewell-1 Tubewell-1	12750 12750 12750
17	Sanyam s/o Surender Singh	28	653, 674	Tubewell-1 Tubewell-1	14400 14430
18	Anil Kumar s/o Daryav Singh	30	1182/2/2	Tubewell-1	12750

19	Sunil s/o Daryav Singh	31	1171, 1186/2/1	Tubewell-1 Tubewell-1	12800 12800
20	Smt. Kitabo	33	1166/2	Tubewell-1	12800
21	Dinesh Rana etc.	34	693	Tubewell-1	9000
22	Sumer Singh etc.	38	1193/2, 1255/2	Tubewell-1 Tubewell-1	12750 12750
23	Smt. Murti Devi etc.	39	1252/2	Tubewell-1	12800
24	Omkeswar s/o Surjan	40	767, 1116, 1119, 1129	Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1	14400 14400 14400 12750
25	Krishan Kumar etc.	42	120 1066 1154	Tubewell-1 Tubewell-1 Tubewell-1	45660 45660 22400
26	Krishan Kumar s/o Silak Ram	43	119	Tubewell-1	45200
27	Rajender Singhetc.	45	698/1, 1068, 1069/1, 1070, 1076	Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1	13550 13550 13550 13550 13550
28	Rajender Singh s/o Ram Kishan	46	11, 118, 155, 604, 607, 1074, 1645	Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1	13550 13550 13550 13550 13550 14400 13550
29	Dalel Singh etc.	48	68, 272/2, 276, 805, 851, 855, 856	Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1 Well Tubewell-1	13550 13550 13550 13550 13550 13550 28800 13550
30	Prem Singh etc.	50	97/2, 100	Tubewell-1 Tubewell-1	12800 12800
31	Sukhbir Singh	51	70, 90, 277/2/1	Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1	12800 12800 12800 12800
32	Dalel Singh etc.	56	1530	Tubewell-1	14400
33	Smt. Bhani etc.	57	1 min, 779, 1529 1685/3	Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1	13550 12750 13550 13550
34	Chandro Devi etc.	58	1033, 1038	Tubewell-1 Tubewell-1	14400 14400
35	Jogender Singh etc.	59	114, 123, 1049, 1053/1	Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1	13550 13550 12750 12750
36	Surender Singh etc.	62	1050/2	Tubewell-1	12800
37	Kartar Singh	63	1051/2	Tubewell-1	12800
38	Sathir Singh etc.	66	1123	Tubewell-1	17000
39	Krishan s/o Satparkash	71	163/1, 1048	Tubewell-1 Tubewell-1	13550 29800
40	Jogender Singh etc.	72	1040/2	Tubewell-1	13550

41	Raj Singh	73	637/1	Tubewell-1	13550
42	RajKumar	74	643, 647/1, 648, 1131, 1134, 1135	Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1	13550 12800 13550 12800 13550 12800
43	Jasvinder etc.	76	862	Tubewell-1	14400
44	Omparkash	78	1122	Tubewell-1	32300
45	Balbir Singh	79	628, 633	Tubewell-1 Tubewell-1	13550 13550
46	Om Bharm	80	623, 1115, 1120	Tubewell-1 Tubewell-1 Tubewell-1	12800 12800 12800
47	Smt. Savita	81	1573, 1575	Tubewell-1 Tubewell-1	12800 12800
48	Vinod Kumar	82	1591	Tubewell-1	14400
49	Naresh Kumar	83	1637	Tubewell-1	30400
50	Manish Kumar	88	790, 791	Tubewell-1 Tubewell-1	14400 14400
51	Umed Singh	92	1079, 1086	Tubewell-1 Tubewell-1	12780 12780
52	Sher Singh	93	1090	Tubewell-1	12800
	Sajjan Kumar	95	630, 725, 731 734	Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1	10700 10700 10700 10700
53	Smt. Rajbala etc.	97	1214/1	Tubewell-1	14400
54	Smt. Chandro	99	85, 317	Tubewell-1 Tubewell-1	12800 32300
55	Puspa Devi etc.	100	59	Tubewell-1	12800
56.	Smt. Vidya Devi etc.	108	475, 489, 510	Tubewell-1 Tubewell-1 Tubewell-1	44500 44500 44500
57.	Samsher Singh s/o Gokal	110	1090	Tubewell-1	12750
58.	Smt. Santosh etc.	111	1093	Tubewell-1	12780
59.	Vijay pal etc.	113	1094, 1102/2/1	Tubewell-1 Tubewell-1	12750 12750
60.	Rajender Singh s/o Maan Singh	115	1105	Tubewell-1	12780
61.	Roopwanti etc.	123	361, 362	Tubewell-1 Tubewell-1	12800 14400
62.	Dinesh s/o Jai parkash	124	679	Tubewell-1	14400
63.	Jasbir Singh s/o Brahm Dev Singh	126	238	Tubewell-1	13550
64.	Chander Kalan etc.	132	229	Tubewell-1	13550
65.	Dharambir etc.	137	172, 197, 198	Tubewell-1 Tubewell-1 Tubewell-1	13550 13550 13550
66.	Kulbir Singh s/o Rattan Singh	138	400, 401, 419/3	Tubewell-1 Tubewell-1 Tubewell-1	15700 15700 15700
67.	Satiesh Kumar etc.	142	402/1	Tubewell-1	13550
68.	Khazani etc.	145	413, 414	Tubewell-1 Tubewell-1	14400 14400
69.	Mahender Singh s/o Raghbir Singh	147	246	Tubewell-1	14400

70.	Dharamander Singh etc.	149	298/1	Tubewell-1	14400
71.	Jarvinder Singh etc.	150	236	Tubewell-1	14400
72.	Smt. Suresh Bala etc.	152	245/2	Tubewell-1	14400
73.	Sunil Kumar s/o Rishla	153	253/2/2	Tubewell-1	14400
74.	Surender Singh etc.	156	250/2	Tubewell-1	14400
75.	Mukesh s/o Balbir Singh.	158	248, 249/1, 294/2	Tubewell-1 Tubewell-1 Tubewell-1	14400 14400 14400
76.	Smt.Kamla etc.	161	516/2	Tubewell-1	14400
77.	Smt. Savitri Devi	162	517/2	Tubewell-1	18500
78.	Ravinder etc.	165	514, 536	Tubewell-1 Tubewell-1	14400 14400
79.	Sanaber Singh s/o Sarjeet Singh	169	1610	Tubewell-1	13550
80	Surender Singh s/o Sarjeet Singh	170	315/3	Tubewell-1	14400
81.	Mahender Singh etc.	172	502/2, 503/2	Tubewell-1 Tubewell-1	17000 17000
82.	Jagat Singh s/o Partha etc.	175	537, 543	Tubewell-1 Tubewell-1	14400 14400
83.	Mahender Singh etc.	177	504/2	Tubewell-1	14400
84.	Ranbir Singh etc.	187	174, 186, 187, 566, 567, 701, 712	Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1	13550 13550 13550 21600 21600 13550 13550
85.	Ranbir Singh etc.	161	480, 483	Tubewell-1 Tubewell-1	13550 13550
86.	Smt. Chatro etc.	188	379, 380, 382	Tubewell-1 Tubewell-1 Tubewell-1	12780 14400 12780
87.	Dev Raj etc.	189	397, 398, 1635, 1640	Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1	13700 13700 13700 13700
88.	Smt. Sunder Devi etc.	192	397, 440, 450, 474	Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1	13550 13550 13550 13550
89.	Om Parkash s/o Pyare Lal	193	757/2	Tubewell-1	9000
90.	Anand s/o Raja	198	438	Tubewell-1	13550
91.	Dharambir Singh etc.	207	64	Tubewell-1	12800
92.	Shri Niwas etc.	208	301, 959, 962, 963, 965, 972, 1088, 1260	Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1	13550 13550 13550 13550 13550 13550 12800 12800
93.	Prem Chand etc.	209	986, 989/2, 1263	Tubewell-1 Well-1 Tubewell-1	13550 21600 12780

94.	Mukesh Kumar etc.	209/216	987	Tubewell-1	17000
95.	Raj Narain etc.	211/220	865, 889, 946, 947, 1268/1	Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1	14400 12800 14400 14400 14400
96.	Radhe Shyam s/o Ram Sarup	218	1582	Tubewell-1	14400
97.	Om Parkash s/o Narain Dutt.	221	906, 1022, 1274	Tubewell-1 Tubewell-1 Tubewell-1	12750 14400 14400
98.	Lakh Ram s/o Dhan Ram	223	1553, 1564/2, 1676/918, 1677/918/2	Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1	13550 13550 12800 12800
99.	Vijay s/o Ramkishan	225	1587/2	Tubewell-1	13550
100.	Smt. Mutti Devi etc.	227	1025, 1037	Tubewell-1 Tubewell-1	13550 13550
101.	Vedwanti etc.	232	1568	Tubewell-1	40300
102	Ravi Dutt etc.	240	991	Tubewell-1	12750
103.	Saheb Singh etc.	243	940	Tubewell-1	12750
104.	Rajender Kumar etc.	245	1007/1	Tubewell-1	12800
105.	Hukam Chand etc.	251	952	Tubewell-1	12800
106	Dinesh Kumar etc.	252	953	Tubewell-1	12500
107.	Smt. Sheela Devi etc.	257	1602	Tubewell-1	14150
108.	Dharam Singh s/o Narain Singh	261	79, 681	Tubewell-1 Tubewell-1	12780 14000
	Total			232	35,00,830

I accept the assessment made by Assistant Agriculture Engineer, Sonipat and award accordingly **Rs. 35,00,830/-** for the cost of tubewells.

The landowners and interested persons will be entitled to 12% p.a (36.03%) from the date of notification u/s 4 on the aforesaid value of tubewells i.e **Rs. 35,00,830/-** according to sub section 1-A of section 23 of the Act, which comes to **Rs.12,61,349/-**

The landowners and interested persons will be entitled to 30% solatium which is consideration of compulsory nature of acquisition on the total price of tubewells i.e Rs 35,00,830/- which comes to Rs. 10,50,249/-

BUILDING & STRUCTURE

The supplementary award of the building & structure lies in the acquired land will be announced separately.

POSSESSION OF LAND

The possession of **3916 Bigha 0 Biswa** land under acquisition has been delivered to the concerned Department i.e **1-04-2013.**

MODE OF PAYMENT

Payment will be made to the land owners according to the shares and rights as entitled in the last "Jamabandi". However, on account of death of any landowner, the compensation could be paid to the legal heirs of the deceased. In case of dispute, the compensation amount will be kept in the Bank till the contesting parties come to an amicable settlement or get dispute decided by a competent court of law. Similarly in the case of absence of a landowner, the compensation amount will be kept in the bank till the original payees turns up.

The acquired land will vest absolutely in the Government, free from all encumbrances with effect today, the **1-04-2013.**

Subject to the above remarks, the award stands as follows:-

Sr. No.	Price	Amount	12% p.a (36.03%) u/s 23 (1&A)	30% Solatium	Total
1.	Price of Land	2447500000	881834250	734250000	4063584250
3.	Price of fruit trees	23723900	8547721	7117170	39388791
4.	Price of tubewells	3500830	1261349	1050249	5812428
Total		2474724730	891643320	742417419	410,87,85,469

(Rupees four hundred ten crore eighty seven lacs eighty five thousand four hundred sixty nine only)

Announced on **1-04-2013** at Tehsil, Kharkhoda in the presence of persons interested and notice u/s 12 (2) of the Act be issued to those who are not present.

District Revenue Officer-cum
Land Acquisition Collector, Sonipat

Place:- Tehsil, Kharkhoda
Dated:-1-04-2013
Endst. No. 174-80 **/Kgo LA Sonipat** **Dated** 7/05/2013

A copy of the above is forwarded to the following for information:-

1. Financial Commissioner & Secretary to Govt. of Haryana Industries Department, Chandigarh.
2. Director of Industries & Commerce, Haryana, Chandigarh.
3. Managing Director, Haryana State Infrastructure & Industries Development Corporation Ltd. Plot No. C 13-14, Sector-5, Panchkula.
4. Deputy Commissioner, Sonipat.
5. Senior Manager(LA), HSIIDC, Industrial Estate, Kundli, Tehsil & District Sonipat.
6. Tehsildar, Kharkhoda, he is requested to enter and section the mutation of land in favour of Haryana State (HSIDC)

District Revenue Officer-cum
Land Acquisition Collector, Sonipat

DISTRICT SONIPAT

Award announced by Sh. Suresh Kumar, District Revenue Officer cum-Land Acquisition Collector, Sonipat

Award No. 51

Date of Award:- 2/04/2013

Village:- Sohti

In pursuance of the Govt. Notification No.-2/1/4-1IB-II-2010, dated 1-04-2010, published in Govt. Gazette dated 1-04-2010 u/s-4 of the Land Acquisition Act, 1894 (hereinafter referred to as the Act) and declared vide Notification No. 2/1/4-1IB-II-2010, Dated 4-04-2011 u/s 6 of the Land Acquisition Act, 1894 thereinafter published in Govt. Gazette dated 4-04-2011 Total land acquired is 540 Acre 3 Kanal 5 Marla at village Sohti Hadbast No. R-14, Tehsil Kharkhoda District Sonipat at public expense, for a public purpose, namely, for the development of Industrial Modern Township in revenue estate of villages Gopalpur, Pipli, Saidpur, Kundal, Jampur, Firozpur, Banger, Nizampur Khurd, Sohati, Pahaladpur and Borana, Tehsil Kharkhoda District Sonipat

MEASUREMENT

The area given in the Notification u/s 6 of the Land Acquisition Act, 1894 is 542 Acre 1 Kanal 18 Marla, while the award has been announced of 540 acre 3 kanal 5 marla. The difference of 1 Acre 6 Kanal 13 Marla is due to clerical mistake. The land under acquisition lies in 941 fields as per detail given in form no. 1, prepared under paragraph 36 of the Financial Commissioner standing order no. 28. I agree with the classification of the basis of entries in the "Jamabandi" for the year 2005-06.

Class of Land Acquired	Area Under Acquisition		
	Acre	Kanal	Marla
Nahri/Chahi/Gair Mumkin	540	3	5

The details of khasra Nos. of the land under acquisition are as under:- 1//21 (3-0), 22 (4-13), 23 (3-2), 24 (3-15), 2//1/1 (1-12), 1/2 (4-3), 2/1 (2-9), 2/2 (5-11), 3/1 (2-9), 3/2 (5-2), 4/1 (2-5), 4/2 (5-12), 5 (5-4), 6 (8-0), 7 (8-0), 8/1 (1-7), 8/2 (6-13), 9 (8-0), 10/1/1 (5-16), 10/1/2 (0-13), 10/2 (0-6), 11/1 (4-18), 11/2 (1-12), 12/1 (0-2), 12/2 (7-6), 13/1 (4-19), 13/2 (4-0), 14 (8-0), 15 (8-0), 16 (7-12), 17 (8-0), 18/1 (7-4), 18/2 (0-1), 19/1 (1-9), 19/2 (5-1), 20 (8-0), 21 (8-0), 22 (8-0), 23/1 (5-0), 23/2 (1-9), 24/1 (0-1), 24/2 (7-4), 25 (7-12), 26 (0-4), 3//6 (0-14), 15 (3-18), 16 (7-14), 24 (3-10), 25 (8-0), 4//4 (6-4), 5 (8-0), 6/1/1 (1-6), 6/1/2/1 (1-13), 6/1/2/2 (1-0), 6/1/2/3 (0-5), 6/2/1 (2-4), 6/2/2 (1-12), 7/1 (4-13), 7/2 (3-7), 8/1 (0-10), 8/2 (1-2), 13 (4-10), 14/1 (2-7), 14/2/1 (1-7), 14/2/2/1 (0-18), 14/2/2/2/1 (4-2), 15/1/1 (0-13), 15/1/2 (0-4), 15/2 (7-2), 16/1 (1-8), 16/2 (6-12), 17/1 (3-4), 17/2 (4-0), 18 (8-0), 19 (1-10), 22 (4-16), 23 (8-0), 24 (8-0), 25 (8-0), 5//1 (8-0), 2/1 (3-18), 2/2 (5-18),

2/3(5-4), 3/1 (7-4), 3/2 (8-16), 4/1/1 (4-6), 4/1/2 (8-7), 4/2 (1-4), 5/1 (0-1), 5/2 (7-2), 6/1 (1-16), 6/2/1 (1-3), 6/2/2 (0-8), 7/1 (8-0), 7/2 (x-x), 8/1 (7-11), 8/2 (0-9), 9/1/1/1 (0-7), 9/1/1/2 (8-15), 9/1/2/1 (0-4), 9/2/1 (0-4), 9/1/2/2 (0-4), 9/2/2 (0-4), 10/1 (0-18), 10/2 (6-13), 11 (8-0), 12 (8-0), 13 (8-0), 14/1 (0-9), 14/2 (7-11), 15/1 (x-x), 15/2 (8-0), 16 (8-0), 17 (8-0), 18/1 (5-2), 18/2 (2-18), 19/1 (4-18), 19/2 (1-2), 20 (8-0), 21 (8-0), 22 (8-0), 23 (8-0), 24/1 (1-0), 24/2 (7-0), 25 (8-0), **6**//1 (8-0), 2/1/1 (1-9), 2/1/2 (3-9), 2/2 (0-13), 2/3/1 (0-9), 2/3/2 (2-0), 3/1 (4-0), 3/2/1 (0-5), 3/2/2 (3-14), 4/1 (7-2), 4/2 (0-18), 5/1 (4-8), 5/2 (3-2), 6 (8-0), 7/1 (2-0), 7/2 (6-0), 8/1/1 (7-4), 8/1/2 (0-8), 8/2/1 (0-8), 8/2/2 (x-x), 9 (8-0), 10 (7-16), 11/1 (3-18), 11/2 (4-2), 12 (8-0), 13/1/1 (0-1), 13/1/2 (9-17), 13/2/1 (0-7), 13/2/2/1 (4-9), 13/2/2/2 (2-6), 14/1 (0-4), 14/2 (7-16), 15 (8-0), 16 (8-0), 17/1 (5-17), 17/2 (1-19), 17/3 (0-4), 18/1 (x-x), 18/2 (2-4), 18/3 (5-16), 19/1/1 (0-9), 19/1/2 (6-11), 19/2 (0-2), 20/1/1 (0-2), 20/1/2 (0-5), 20/2 (6-13), 21 (8-0), 22/1 (2-18), 22/2 (2-18), 23 (8-0), 24/1 (0-4), 24/2 (7-16), 25 (8-0), **7**//1 (0-3), 2 (2-7), 3 (4-8), 4 (0-17), 6 (8-2), 7 (7-16), 8/1 (1-11), 8/2 (6-9), 9/1 (1-16), 9/2 (5-10) 10 (6-15), 11/1 (5-2), 11/2 (2-18), 12 (8-0), 13 (8-0), 14 (8-0), 15 (8-0), 16 (8-0), 17 (8-0), 18 (8-0), 19 (8-0) 20 (8-0), 21/1 (4-13), 21/2 (3-7), 22 (8-0), 23 (8-0), 24 (8-0), 25 (8-0), **8**//0 (1-8), 10(4-16), 11 (8-0), 12 (7-18), 13 (5-0), 14 (2-11), 15 (2-4), 16 (7-12), 17 (8-0), 18 (8-0), 19/1 (1-0), 19/2 (7-0), 20/1 (3-11), 20/2 (4-9), 21/1 (2-4), 21/2 (5-16), 22 (8-0), 23 (8-0), 24/1 (1-16), 24/2 (6-4), 25 (7-12), **9**//1 (8-0), 2 (8-0), 3 (8-0), 4/1 (2-9), 4/2 (5-11), 5 (7-12), 6/1 (7-8), 6/2 (0-4), 7/1 (2-0), 7/2 (6-0), 8 (8-0), 9 (8-0), 10 (8-0), 11/1 (3-7), 11/2 (4-13), 12 (8-0), 13 (8-0), 14 (8-0), 15 (7-12), 16 (7-12), 17 (8-0), 18 (8-0), 19 (8-0), 20 (8-0), 21 (8-0), 22 (8-0), 23/1 (7-12), 23/2 (0-8), 24/1 (0-9), 24/2 (7-11), 25/1 (0-8), 25/2 (7-4), **10**/01 (8-0), 2/1 (2-13), 2/2 (0-18), 2/3 (0-4), 2/4 (0-9), 2/5 (1-2), 2/6 (0-9), 2/7 (3-4), 2/8 (0-9), 2/9 (1-11), 3/1 (6-13), 3/2 (1-7), 4 (8-0), 5 (8-0), 6/1 (5-12), 6/2 (2-8), 7 (8-0), 8 (8-0), 9 (8-0), 10 (8-0), 11 (8-0), 12 (8-0), 13 (8-0), 14 (8-0), 15 (8-0), 16 (8-0), 17 (8-0), 18 (8-0), 19 (8-0), 20 (8-0), 21 (7-16), 22 (7-16), 23 (7-16), 24/1 (6-18), 24/2 (0-18), 25 (7-16), **11**//11 (1-13), 18 (2-15), 19/1 (5-11), 19/2 (0-19), 20 (8-0), 21/1 (0-4), 21/2 (0-4), 21/3 (6-4), 21/4 (1-8), 22 (8-0), 23 (8-0), 24 (6-12), 25 (3-11), **12**/21 (0-8), **13**//1/1 (4-2), 1/2 (2-13), 2 (1-8), 7 (2-16), 8 (5-7), 9 (7-13), 10/1 (7-16), 10/2 (0-4), 11 (8-0), 12/1 (7-18), 12/2 (0-2), 13 (8-0), 14/1 (0-2), 14/2 (7-18), 15 (8-0), 16 (8-0), 17 (8-0), 18 (8-0), 19 (8-0), 20 (8-0), 21/1 (6-13), 21/2 (1-7), 22 (8-0), 23 (8-0), 24 (8-0), 25 (8-0), **14**//1 (8-0), 2 (8-0), 3 (8-0), 4/1 (0-2), 4/2 (7-18), 5/1 (5-8), 5/2 (0-6), 6 (2-6), 6/1/1 (x-x), 6/1/2 (2-4), 6/1/3 (2-9), 6/2 (3-7), 7 (7-12), 8 (8-0), 9 (8-0), 10 (8-0), 11/1 (0-4), 11/2 (7-16), 12 (8-0), 13 (8-0), 14 (7-12), 15 (8-0), 16 (7-11), 17 (7-12), 18/1 (7-11), 18/2 (0-9), 19/1 (4-12), 19/2 (3-21, 20 (8-0), 21 (8-0), 22 (8-0), 23 (8-0), 24/1 (0-9), 24/2/1 (3-12), 24/2/2 (3-19), **15**//1 (8-0), 2 (8-0), 3 (8-0), 4 (8-0), 5 (8-0), 6 (8-0), 7/1 (1-12), 7/2 (6-8), 8 (8-0), 9/1 (4-0), 9/2 (0-2), 9/3 (3-18), 10/1/1 (3-11), 10/1/2 (0-9), 10/2 (4-0), 11 (8-0), 12 (8-0), 13/1 (0-8), 13/2 (7-12), 14/1 (0-4), 14/2 (7-16), 15/1 (0-4), 15/2 (7-16), 16/1 (3-12), 16/2 (4-3), 16/3 (0-3), 17 (8-0), 18/1 (0-4), 18/2 (7-16), 19 (8-0), 20 (7-11), 21/1 (0-4), 21/2 (7-8), 22/1 (6-13), 22/2 (0-18), 23/1 (7-11), 23/2 (0-9), 24/1 (7-11), 24/2 (0-9), 25/1 (0-8), 25/2 (7-12), **16**//1 (8-0), 2 (8-0), 3/1 (3-12), 3/2 (0-8), 4 (8-0), 5/1 (1-10), 5/2 (6-2), 6 (7-12), 7 (8-0), 8/1 (3-15), 8/2 (0-13), 8/3 (3-9),

9/1 (0-4), 9/2 (7-16), 10/1 (6-12), 10/2 (1-8), 11 (8-0), 12/1 (7-12), 12/2 (0-8), 13 (8-0), 14 (8-0), 15 (7-12), 16 (7-12), 17/1 (7-2), 17/2 (0-18), 18 (8-0), 19/1 (0-8), 19/2 (7-12), 20 (8-0), 21/1 (0-1), 21/2 (6-5), 22/1 (7-12), 22/2 (0-8), 23/1 (6-17), 23/2 (1-2), 24/1 (3-11), 24/2 (4-9), 25/1 (7-16), 25/2 (0-4), **17**//1 (8-0), 2/1 (6-14), 2/2 (0-2), 3/1 (0-2), 3/2 (3-16), 3/3 (2-15), 4/1 (7-16), 4/2 (0-4), 4/3 (x-x), 5/1 (7-3), 5/2 (0-17), 6/1 (7-12), 6/2 (0-8), 7/1 (0-8), 7/2 (4-6), 7/3 (0-3), 7/4 (2-15), 8/1 (1-13), 8/2 (3-8), 9/1 (8-0), 9/2 (x-x), 10/1 (0-4), 10/2 (5-13), 10/3 (2-3), 11 (7-4), 12 (7-11), 13 (7-5), 14/1 (1-2), 14/2/1 (1-14), 14/2/2 (2-3), 14/2/3 (0-8), 15/1 (0-8), 15/2 (7-12), 16/1/1 (6-4), 16/1/2 (0-2), 16/2 (0-5), 17/1/1 (0-2), 17/1/2 (0-3), 17/2 (6-10), 18 (8-0), 19 (8-0), 20/1 (1-12), 20/2 (6-8), 21 (8-0), 22 (8-0), 23/1 (4-0), 23/2 (4-0), 24 (8-0), 25/1 (5-1), 25/2 (0-14), 25/2/2/1 (4-0), **18**//1 (8-0), 2 (8-0), 3 (8-0), 4 (8-0), 5 (8-0), 6/1 (0-4), 6/2 (7-16), 7/1 (1-15), 7/2 (6-1), 7/3 (0-4), 8/1/1 (0-1), 8/1/2 (2-11), 8/2 (5-8), 9/1 (3-12), 9/2 (4-8), 10 (8-0), 11 (7-9), 12/1 (1-3), 12/2 (6-8), 13/1 (2-9), 13/2 (5-2), 14/1 (2-5), 14/2 (3-0), 14/3 (1-3), 14/4 (1-3), 15/1 (4-3), 15/2 (2-9), 15/3 (0-19), 16 (8-0), 17 (8-0), 18/1 (4-9), 18/2 (3-11), 19 (8-0), 20 (8-0), 21 (8-0), 22 (8-0), 23 (8-0), 24 (8-0), 25 (8-0), **19**//1 (0-7), 2/1 (1-7), 2/2 (5-16), 2/3 (0-7), 3 (8-0), 4 (8-0), 5 (8-0), 6 (8-0), 7 (8-0), 8/1 (3-4), 8/2 (4-16), 9/1 (7-12), 9/2 (0-8), 10 (3-4), 12/1/1 (0-8), 12/1/2 (3-4), 12/2/1 (0-8), 12/2/2 (4-0), 13 (8-0), 14 (8-0), 15 (7-12), 16 (7-4), 17 (7-11), 18 (7-11), 19/1 (7-4), 19/2 (0-8), 23/1 (7-16), 23/2 (0-4), 24 (8-0), 25 (7-12), **22**//4-1 (x-x), 4/2 (8-0), 5 (7-12), 6 (7-12), **23**//1/1 (7-6), 1/2 (0-2), 2/1 (7-17), 2/2 (0-3), 3/1 (3-11), 3/2 (4-9), 4 (8-0), 5 (8-0), 6/1 (1-11), 6/2/1/1 (1-11), 6/2/1/2 (4-9), 6/2/2 (0-9), 7 (8-0), 8 (8-0), 9/1/1 (1-13), 9/1/2 (0-7), 9/2 (6-0), 10/1 (4-18), 10/2 (2-9), 11/1 (4-9), 11/2 (3-11), 12/1 (5-2), 12/2 (2-18), 13 (8-0), 14/1 (2-0), 14/2 (6-0), 15/1 (7-12), 15/2 (0-8), 16 (8-0), 17 (8-0), 18 (8-0), 19 (8-0), 22 (8-0), 23 (8-0), 24 (8-0), 25 (8-0), 26 (0-12), 27 (0-13), **24** //1 (8-0), 2 (8-0), 3 (8-0), 4 (8-0), 5 (8-0), 6 (8-0), 7/1 (2-0), 7/2/1 (3-12), 7/2/2 (2-8), 8/1 (2-16), 8/2 (5-4), 9 (8-0), 10 (8-0), 11/1 (2-0), 11/2 (1-12), 11/3 (4-8), 12/1 (4-0), 12/2 (4-0), 13/1 (2-9), 13/2 (5-11), 14/1/1 (0-13), 14/1/2/1 (0-11), 14/1/2/2 (0-11), 14/2/1 (2-7), 14/2/2/1 (2-1) 14/2/2/2 (1-17), 15/1 (2-9), 15/2/1 (5-0), 15/2/2 (0-11), 16/1 (1-0), 16/2 (7-0), 17/1/1 (0-17), 17/1/1/1 (0-8) 17/1/1/2 (0-9), 17/1/2 (0-10), 17/2 (6-13), 18 (8-0), 19 (8-0), 20/1 (5-16), 20/2 (2-4), 21 (8-0), 22 (8-0), 23/1 (7-12), 23/2 (0-8), 24/1 (1-11), 24/2 (6-9), 25 (8-0), **25**//1/1 (6-6), 1/2 (0-4), 2/1 (1-0), 2/2/1 (4-0), 2/2/2 (0-8), 3/1 (6-0), 3/2 (1-19), 3/3 (0-1), 4/1 (7-12), 4/2 (0-4), 4/3 (0-4), 5/1 (7-12), 5/2 (0-4), 5/3 (0-4), 6/1 (0-4), 6/2/1 (6-12), 6/2/2 (1-4), 7/1 (0-4), 7/2 (7-12), 8/1/1 (1-9), 8/1/2 (1-17), 8/2 (2-12), 9 (7-12), 10/1 (2-4), 10/2 (5-16), 11 (8-0), 12 (8-0), 13 (8-0), 14/1 (3-5), 14/2 (2-3), 15/1 (1-4), 15/2 (6-16), 16/1/1 (0-2), 16/1/1/2 (1-10), 16/1/2/1 (0-7), 16/1/2/2 (2-5), 16/1/2/3 (2-2), 15/2 (0-2), 17/1 (3-4), 17/2 (4-0), 18 (8-0), 19 (8-0), 20/1 (4-0), 20/2 (3-19), 21 (8-0), 22 (8-0), 23 (8-0), 24/1 (4-16), 24/2 (3-4), 25/1 (2-14), 25/2 (2-18), 26 (0-1), **26**//1 (7-12), 2/1 (0-4), 2/2 (7-16), 3/1 (7-7), 3/2 (0-13), 4 (8-0), 5 (8-0), 6 (8-0), 7 (7-18), 8/1 (7-12), 8/2 (0-8), 9/1/1 (2-13), 9/1/2 (0-4), 9/2/1 (0-9), 9/2/2 (4-8), 9/2/3 (0-5), 10 (7-12), 11 (7-12), 12/1 (8-0), 12/2 (x-x), 13/1 (0-9), 13/2 (7-11), 14/1 (0-12), 14/2 (7-4), 15/1 (0-12), 15/2 (7-8), 16 (8-0), 17 (8-0), 18 (8-0), 19

(8-0), 20/1/1 (0-6), 20/1/2 (5-6), 20/2/1 (0-3), 20/2/2 (1-14), 20/2/3 (0-11), 21/1 (4-8), 21/2 (3-12), 22 (8-0), 23/1 (5-0), 23/2 (3-0), 24 (8-0), 26 (0-4), **27//1/1** (3-16), 1/2 (4-4), 2 (8-0), 3/1 (4-0), 9/1 (4-0), 9/2 (4-0), 10 (8-0), 11 (8-0), **29//1** (8-0), 2 (8-0), 3 (8-0), 4 (8-0), 8 (8-0), 9 (8-0), 10 (8-0), 12/1 (3-8), 12/2 (4-12), 11 (8-0), **30//11** (6-9), 12/1 (3-8) 12/2 (4-12), 13 (2-18), 14 (0-7), 16 (2-18), 17 (7-5), 18 (8-0), 19 (8-0), 20 (8-0), 21 (8-0), 22 (8-0), 23 (8-0), 24 (8-0), 25 (8-0), **31//12/1/2/2** (0-1), 12/1/2/3 (0-8), 12/2/1 (0-1), 12/2/2 (0-10), **43//1/1** (2-18), 1/2 (5-0), 2/1 (1-4), 2/2 (6-16), 3/1 (1-7), 3/2 (5-7), 3/3 (1-7), 9 (8-0), 10/1 (0-4), 10/2 (6-16), 11/1 (0-8), 11/2 (6-12), **44//1** (8-0), 2 (8-0), 3 (8-0), 4/1 (2-16), 4/2/1 (2-12), 4/2/2/1 (0-8), 4/2/2/2 (2-4), 5/1 (5-10), 5/2 (0-5), 6/1 (0-9), 6/2 (7-11), 7 (7-15), 8/1 (3-7), 8/2 (4-4), 9 (7-11), 10/1 (6-8), 10/2 (1-3), 11 (8-0), 12 (8-0), 13 (8-0), 14 (8-0), 15/1 (7-16), 15/2 (0-4), 16/1/1 (0-9), 16/1/2 (x-x), 16/2/1 (0-4), 16/2/2 (0-11), 16/3 (6-12), 16/4 (0-4), 17/1 (0-9), 17/2 (7-11), 18/1 (0-9), 18/2 (7-11), 19/1 (0-9), 19/2 (7-11), 20 (8-0), 21/1 (3-0), 21/2 (5-0), 22 (8-0), 23 (8-0), 24 (8-0), **45//1** (8-0), 2 (8-0), 3/1 (7-12), 3/2 (0-8), 4 (8-0), 5/1 (6-12), 5/2 (2-8), 6/1 (0-9), 6/2/1 (3-12), 6/2/2 (3-12), 7/1 (2-13), 7/2 (4-18), 8 (7-11), 8/3 (1-5), 9/1 (7-7), 9/2 (0-4), 10/1 (0-8), 10/2 (6-15), 10/3 (0-4), 10/4 (0-4), 11/1 (0-4), 11/2 (7-8), 11/3 (0-8), 12/1 (7-11), 12/2 (0-9), 13/1/1 (3-0), 13/1/2 (x-x), 13/2 (5-0), 14 (8-0), 15/1 (4-0), 15/2 (4-0), 16/1 (4-0), 16/2 (0-2), 16/3 (3-18), 17/1 (2-8), 17/2/1 (0-3), 17/2/2 (5-9), 18/1 (6-6), 18/2 (0-9), 19 (8-0), 20/1 (7-16), 20/2 (0-4), 22/1 (0-4), 22/2 (7-16), 23/1 (0-4), 23/2 (0-9), 23/3 (7-7), 24 (8-0), 25 (8-0), **46//3** (8-0), 4 (8-0), 5 (8-0), 6/1 (0-9), 6/2 (7-5), 7/1 (0-9), 7/2 (7-11), 15 (8-0), 26 (0-6), **59//2/1** (4-0), 2/2 (3-0), 2/3(1-0), 3/1/1 (2-0), 3/2 (4-0), 3/3 (2-0), 4 (8-0), 5 (8-0), 6 (8-0), 7/1 (3-7), 7/2 (4-9), 7/3 (0-5), 8 (8-0), 14/1 (3-6), 14/2 (3-18), 14/3 (0-16), 15 (8-0), 16/1 (4-0), 16/2 (4-0), 17/1/1 (0-12), 17/1/2 (3-8), 17/2/1 (3-12), 17/2/2 (0-8), **60//1/1** (0-16), 1/2 (7-4), 2/1/1 (3-7), 2/1/2 (3-4), 2/2 (1-9), 3 (8-0), 9 (8-0), 10 (8-0), 11/1/1 (2-13), 11/1/2 (0-18), 11/2 (4-9), 91/1 (0-1), 91/2 (3-8), 95 (6-11), 96 (0-9), 99/2 (1-13), 102 (1-12) **falls no. 941 measuring 540 Acre 3 Kanal 5 Marla.**

The landowners and the interested persons have accepted the measurements and the classification of the land and no objection in this regard have been received from the Acquiring Department also. The award of "Land Pooling Scheme" shall be announced later on.

COST OF LAND

No landowners and interested persons appeared in the pursuance of the notice u/s 9 of the LA Act.

The department was represented by **Sh. Jagdish Kadiyan, Assistant Manager(LA), HSIIDC, Kundli** who stated that the demand of the landowners was very high and the reasonable rate of land as sent by the Divisional Level Committee may be fixed. Ex-parte proceeding was taken against those, who did not appear. The landowners are entitled to have that price which prevailed at the time of publication of notification u/s 4 of the Act.

The commissioner, Rohtak Division, Rohtak presided over the Divisional Level Committee meeting on 5-03-2013 held at Deputy Commissioner's office room, Sonipat for fixation of the market rate of the land under acquisition. The Divisional Level Committee vide his letter endorsement no.281-83 Dated 11-03-2013 has supplied the market value/price/rate **Rs. 30,00,000/-** for every kind of land.

Keeping in view the location of land and all other factors, which are essential for determination of the market value, I award **Rs. 30,00,000/-** per acre for every kind of land.

By applying the above-mentioned rate, the price of land under acquisition has been worked out as under:-

Class of Land Acquired	Area under Acquisition			Total
	Acre	Kanal	Marla	
Nahri/Chahi	**540**	**3**	**5**	**162,12,18,750/-**

Price of land according to sub section 1-A section 23 of the Land Acquisition Act, 1894.

The landowners and interested persons will be entitled to 12% p.a (36.00%) on the market value i.e Rs. **162,12,18,750/-** according to sub section 1-A of section 23 of the Act, which comes to **Rs. 58,46,11,491/-**

The landowners and interested persons will be entitled to 30% solatium which is consideration of compulsory nature of acquisition on the total price of land i.e Rs **162,12,18,750/-** which comes to **Rs. 48,63,65,625/-**

SHADOW TREES

The supplementary award of the shadow trees lie in the acquired land will be announced separately.

FRUIT TREES

Total five fruit trees lies in the area under acquisition, whose assessment list has been sent to me by District Horticulture Officer, Sonipat. The list of assessment for the fruit trees is as under:-

Sr. No.	Name of owner	Khewat/Khata no.	Rect. & killa no	Type of property	Amount assessed by the deptt. (rupees)
1.	Rohtash Kumar etc	10 min	2/5	Jamun-1	1450
2.	Sukhbir Singh etc.	48	18/19	Jamun-1	8587
3.	Fateh Singh etc.	49	18/13/	Jamun-1	9570
4.	Hari Krishan etc.	85	18/4	Jamun-1	9590
5.	Yashpal etc.	122	17/13	Amrood-1	3780
6.	Smt. Mankour etc.	175	13/22	Beri-1	7590
	Total			5	40567

I accept the assessment made by the Divisional Horticulture Officer, Sonipat and award accordingly **Rs. 40,567/-** for the cost of fruit trees.

The landowners and interested persons will be entitled to 12% p.a (36.06%) from the date of notification u/s 4 on the aforesaid value of fruit trees i.e **Rs. 40,567/-** according to sub section 1-A of section 23 of the Act, which comes to **Rs. 14,628/-**

The landowners and interested persons will be entitled to 30% solatium which is consideration of compulsory nature of acquisition on the total price of fruit trees i.e **Rs 40,567/-** which comes to **Rs. 12,170/-**

TUBEWELL

Total one hundred three tubewells come in the area under acquisition, whose assessment list has been sent to me by the Assistant Agriculture Engineer, Sonipat. The assessment list of tubewells area as under:-

Sr. No.	Name of owner	Khewat /Khata no.	Kills no.	Type of property	Amount of assessed by the deptt. (rupees)
1.	Vijay Singh etc.	5	30//25	Tubewell-1	5100
2.	Vijay Singh etc.	9	2//13/1	Tubewell-1	5100
3.	Rohtash Kumar etc.	10 min	7//10	Tubewell-1	22800
4.	Smt. Roshani etc.	11	1//23	Tubewell-1	34400
5.	Sukhbir singh s/o Hotiyar Singh	11/2	2//8/3	Tubewell-1	16800
6.	Smt. Shakuntal etc.	12 min	7//13	Tubewell-1	16090
7.	Jai Bhagwan etc.	15	7//9/2 12 19	Tub-well-1 Tubewell-1 Tubewell-1	14100 14100 14100
8.	Jai Narain etc.	16	6//22/1	Tubewell-1	12500
9.	Jai Kishan etc.	22	46//24/2	Tubewell-1	16400
10.	Jai Singh etc.	23	6//5/1	Tubewell-1	16400
11.	Ram Karan s/o Joet Singh	26	8//21/2	Tubewell-1	16400
12	Ram Karan s/o Joet Singh	27	6//15, 25, 9//20	Tubewell-1 Tubewell-1 Tubewell-1	16400 16400 16400
13.	Dharambir s/o Ranbir singh	44	25//7/2	Tubewell-1	9000
14.	Dilbagh Singh etc.	45	25//6/2/1	Tubewell-1	26000
15.	Rajesh Kumar etc.	46	25//5/1	Tubewell-1	12700
16.	Sukhbir Singh etc.	48	18//20	Tubewell-1	17300
17.	Fateh Singh etc.	49	18//13/2	Tubewell-1	12800
18.	Smt. Sarwanti etc.	52	19//9/1	Tubewell-1	17300
19.	Kuldeep Singh etc.	55	15//11	Tubewell-1	13350
20.	Smt. Harkaur w/o etc.	56	16//6, 15, 14	Tubewell-1 Tubewell-1 Tubewell-1	17500 12800 12800
21.	Rajbir Singh etc.	57	5//7/1	Tubewell-1	12800
22.	Om parkash s/o Ram Singh	57	5//4/1	Tubewell-1	12800
23.	Yogesh Kumar s/o Ram parkash	57	5//7/1	Tubewell-1	12800

24.	Ravinder etc.	57 min	2//23/1	Tubewell-1	12800
25.	Dhir Singh s/o Pirthi	60	10//22	Tubewell-1	16350
26.	Balwan etc.	62	26//3/1	Tubewell-1	12000
27.	Sukhibir Singh etc.	64	26//7, 8/1	Tubewell-1 Tubewell-1	12000 12000
28.	Nafe singh etc.	66	18//15/1, 26//13/2	Tubewell-1 Tubewell-1	13300 13300
29.	Dharma s/o Nathu	68	26//15/2, 27//1/2	Tubewell-1 Tubewell-1	12800 12800
30.	Hari Krishan etc.	85	6//19/2, 22/2, 18//3	Tubewell-1 Tubewell-1 Tubewell-1	12000 12000 12000
31.	Chandan Singh s/o Thambu	86	18//14/2	Tubewell-1	12000
32.	Sukhbir singh s/o Thambu	88	17//9/1, 10/2	Tubewell-1 Tubewell-1	13950 13950
33.	Anup Singh etc.	91	4//25, 18//10, 19//4, 19//6	Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1	12000 12000 12000 12000
34.	Sukhbir singh etc.	92	17//21, 18//25, 24//1	Tubewell-1 Tubewell-1 Tubewell-1	12000 12000 12000
35.	Ram Niwas etc.	93 min	16//5/1	Tubewell-1	12600
36.	Ram Rati wd/o etc.	93 min	9//23/1	Tubewell-1	12600
37.	Rajender etc.	95	26//9/2/2, 17, 18, 19	Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1	12000 12000 12000 12000
38.	Maha Sing etc.	107	5//14/2	Tubewell-1	9000
39.	Yashpal etc.	122	17//12, 19	Tubewell-1 Tubewell-1	12000 12000
40.	Harish chander etc.	123	10//1	Tubewell-1	12000
41.	Om Parkash etc.	132 min	16//10/1 10/2, 11 17//16/1/1	Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1	12750 12750 12750 12750
42.	Phool Singh @ Phoole s/o Bakhtiyaver	144	17//3/3	Tubewell-1	12000
43.	Krishan Kumar etc.	152	23//16	Tubewell-1	12000
44.	Tek Ram s/o Sardar Singh	177	43//9	Tubewell-1	12000
45.	Rajbir Singh etc.	199	24//18, 19, 20/1	Tubewell-1 Tubewell-1 Tubewell-1	12500 12500 12500
46.	Ram Phal etc.	201	10//25	Tubewell-1	12000
47.	Ganga Ram s/o Ram Narain	202	10//4	Tubewell-1	12000
48.	Ram Dhan etc.	206	30//11	Tubewell-1	12000
49.	Umed Singh etc.	212	10//13	Tubewell-1	12000
50.	Ajit Singh etc.	214	23//17, 10//16, 23	Tubewell-1 Tubewell-1 Tubewell-1	12000 12000 12000
51.	Jagbir Singh s/o Randhir Singh	231	24//8/1	Tubewell-1	12500
52.	Smt. Chand Kaur etc.	238	24//11/3	Tubewell-1	12000
53.	Parsant etc.	239	18//16	Tubewell-1	12200
54.	Prem s/o Bhima	240	24//4	Tubewell-1	12360
55.	Ajit etc.	242	27//2	Tubewell-1	12000
56.	Surender Kumar etc.	258	15//13/2	Tubewell-1	12000

57.	Tej Singh s/o Mam Chand	259	15//15/2	Tubewell-1	12000
58.	Jagdish etc.	260	26//5, 27//1/1	Tubewell-1 Tubewell-1	12500 12000
59.	Sukhbir Sing s/o Rishla	287	24//16/2, 45//10	Tubewell-1 Tubewell-1	12500 12500
60.	Inder Jeet etc.	287 min	24//15/2/1, 45//11/2	Tubewell-1 Tubewell-1	12500 12500
61.	Chander etc.	289	45//6/2/2	Tubewell-1	12500
62.	Hawa Singh s/o Amar Singh	299	14//13	Tubewell-1	12000
63	Surta s/o Amar Singh	300	14//8	Tubewell-1	12500
64.	Zile Singh etc.	301	24//20/2, 23/1, 30//12, 17, 22, 24 45//1	Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1 Tubewell-1	9000 9000 9000 9000 9000 9000 9000
65.	Gram Panchyat	525	1//24	Tubewell-1	12500
	Total			**102**	**1316800**

I accept the assessment made by Assistant Agriculture Engineer, Sonipat and award accordingly **Rs. 13,16,800/-** for the cost of tubewells.

The landowners and interested persons will be entitled to 12% p.a (36.06%) from the date of notification u/s 4 on the aforesaid value of tubewells i.e Rs. **13,16,800/-** according to sub section 1-A of section 23 of the Act, which comes to **Rs. 4,74,838/-**.

The landowners and interested persons will be entitled to 30% solatium which is consideration of compulsory nature of acquisition on the total price of tubewells i.e Rs 13,16,800/- which comes to **Rs. 3,95,040/-**

BUILDING & STRUCTURE

The supplementary award of the building & structure lies in the acquired land will be announced separately.

POSSESSION OF LAND

The possession of acre Kanal marla land under acquisition has been delivered to the concerned Department i.e **2-04-2013.**

MODE OF PAYMENT

Payment will be made to the land owners according to the shares and rights as entitled in the last "Jamabandi". However, on account of death of any landowner, the compensation could be paid to the legal heirs of the deceased. In case of dispute, the compensation amount will be kept in the Bank till the contesting parties come to an amicable settlement or get dispute decided by a competent court of law. Similarly in the case of absence of a landowner, the compensation amount will be kept in the bank till the original payees turns up.

The acquired land will vest absolutely in the Government, free from all encumbrances with effect today, the **2-04-2013.**

Subject to the above remarks, the award stands as follows:-

Sr. No.	Price	Amount	12% p.a (36.06%) u/s 23 (1&A)	30% Solatium	Total
1.	Price of Land	1621218750	584611481	486365625	2692195856
2.	Price of fruit trees	40567	14628	12170	67366
3.	Price of tubewells	1316800	474838	395041	2186678
Total		1622576117	585100947	486772836	269,44,69,900

(Rupees two hundred sixty nine crore forty four lacs forty nine hundred nine hundred only)

Announced on **2-04-2013** at **Tehsil, Kharkhoda** in the presence of persons interested and notice u/s 12 (2) of the Act be issued to those who are not present.

District Revenue Officer-cum
Land Acquisition Collector, Sonipat

Place:- Tehsil, Kharkhoda
Dated:-2-04-2013

Endst. No. 181-87 **/Kgo LA Sonipat** **Dated** 9/04/2013

A copy of the above is forwarded to the following for information:-

1. Financial Commissioner & Secretary to Govt. of Haryana Industries Department, Chandigarh.
2. Director of Industries & Commerce, Haryana, Chandigarh.
3. Managing Director, Haryana State Infrastructure & Industries Development Corporation Ltd. Plot No. C 13-14, Sector-6, Panchkula.
4. Deputy Commissioner, Sonipat.
5. Senior Manager(IA), HSIIDC, Industrial Estate, Kundli, Tehsil & District Sonipat.
6. Tehsildar, Kharkhoda, he is requested to enter and section the mutation of land in favour of Haryana State (HSIDC).

District Revenue Officer-cum
Land Acquisition Collector, Sonipat

DISTRICT SONIPAT

Award announced by Sh. Suresh Kumar, District Revenue Officer-Cum- Land Acquisition Collector, Sonipat.

Award No. –52

Date of Award: - 3-04-2013

Village:- Pipli

In pursuance of the Govt. Notification No. 2/1/4-IIB-11-2010, dated 1-04-2010, published in Govt. Gazette dated 1-04-2010 U/s-4 of the Land Acquisition Act, 1894 (hereinafter referred to as the Act) and declared vide Notification No. 2/1/4-IIB-II-2010, dated 4-04-2011 U/s-6 of the Land Acquisition Act, 1894 thereinafter published in Govt. Gazette dated 4-04-2011 Total Land Acquired is **100 Acre 2 Kanal 13 Marla** at **Village Pipli** Hadbast No. 12-P Tehsil Kharkhoda District Sonipat at public expense, for a public purpose, namely, for the Development of Industrial modern township in the revenue estate of villages Gopal pur, Pipli, Saidpur, Kundal, Rampur, Firozpur, Bunger, Nizampur Khurd, Sohari, Paholadpur and Barona Tehsil Kharkhoda District Sonipat.

MEASUREMENT

The area given in the Notification U/s 6 of the Land Acquisition Act, 1894 is **103 Acre 7 Kanal 5 Marla**, while the award has been announced of **100 Acre 2 Kanal 13 Marla**. The deference of **3 Acre 4 Kanal 12 Marla** is due to clerical mistake. The Land under acquisition lies in fields No. **183** as per detail given in form No. 1, prepared under paragraph no. 36 of the Financial Commissioner standing order No. 22. I agree with the classification of the basis of entries in the "Jamabandi" for the year **2008-09**.

Class of Land Acquired	Area under Acquisition		
	Acre	Kanal	Marla
Class 'A'			
Nahri/Chahi/Gair Mumkin	30	4	4
Class 'B'			
Nahri/Chahi/Gair Mumkin	69	6	9
Total	100	2	13

The details of Khasra Nos. of the land under acquisition are as under: - 67//18/2 (5-1), 19/2 (0-9), 21/1/2 (0-9), 21/2/2 (0-1), 22/1/2 (4-11), 22/2 (1-2), 23 (8-0), 24 (9-8), 25 (0-13), 68//21 (1-3), 71//9 (4-1), 10 (10-6), 11 (8-0), 12 (11-0), 14 (5-12), 19 (5-0), 20 (9-9), 72//1/1/2 (4-9), 2/1 (0-9), 2/2 (7-11), 3/1 (1-0), 3/2/1 (0-9), 3/2/2 (1-17), 3/" (4-14), 4 (8-0), 5 (7-16), 6/1 (7-4), 6/2 (0-17), 7/1 (0-9), 7/2 (7-11), 8/2 (7-19), 9 (8-0), 10 (8-5), 11 (7-15), 12 (8-0), 13/1 (0-9), 13/2 (7-11), 14

(8-0), 15/1 (x-x), 15/2 (7-19), 16 (8-0), 17 (8-0), 18/1 (2-18), 18/2 (5-2), 19 (7-11), 20 (7-11), 21 (7-11), 22 (7-11), 23 (8-0), 24 (8-0), 25 (7-2), **73//6/2** (3-10), 14/2 (2-8), 15/2 (7-18), 16 (7-11), 17/1 (7-4), 18/1 (1-7), 22/2/2 (0-11), 23/2 (6-14), 24/1 (0-8), 24/2 (7-3), 25/1 (0-8), 25/2 (7-3), **80//6/2** (0-1), 15/2 (4-8), 16/1 (0-4), 16/2 (7-8), 16/3 (0-8), 17/1/2/1 (2-10), 17/2/1 (0-13), 23/2/1 (2-7), 23/2/2 (0-13), 24/2/1 (3-9), 24/2/2 (3-7), 25/1 (2-13), 25/2 (4-11), 25/3 (0-8), 25/4 (0-8) **81//1/1** (0-6), 2/1/2 (0-1), 2/2/2 (0-3), 2/3/2 (6-4), 3/1 (0-8), 3/2 (7-12), 4/1 (0-8), 4/2 (7-12), 5/1 (0-8), 5/2 (7-12), 6/1 (7-12), 6/2 (0-8), 7/1 (7-4), 7/2 (0-8), 7/3 (0-9), 8/1 (7-12), 8/2 (0-8), 9/1 (2-18), 9/2 (0-8), 9/3 (0-4), 9/4 (4-10), 10/1/1 (4-9), 10/2/2 (0-18), 11 (8-0), 12/1 (0-4), 12/2 (0-8), 12/3 (7-8), 13/2 (7-11), 14/1 (0-9), 14/2 (3-16), 14/3 (3-15), 15/1 (1-11), 15/2 (6-9), 16 (8-0), 17/1 (4-6), 17/2 (4-0), 18 (8-0), 19/1 (6-0), 19/2 (2-0), 20/1 (4-0), 20/2 (0-2), 21/2 (0-9), 22/2 (3-6), 20/3 (3-18), 21/1 (7-11), 22/1 (1-5), 22/3 (3-0), 23/1 (6-17), 23/2 (0-11), 24 (5-2), 25 (5-4), **82//1** (8-0), 2 (8-0), 3 (8-0), 4 (10-8), 8 (7-0), 9 (8-0), 10 (8-0), 11 (8-0), 12 (5-19), 20 (7-0), 21 (2-17), **83//1/1** (4-3), 1/2 (0-16), 1/3 (3-15), 10/1 (3-17), 10/2 (1-1), **84//2/2/2/2** (0-18), 3/1/2 (1-15), 3/2 (3-4), 4/1 (0-11), 4/2 (4-8), 4/3 (1-8), 5/1 (0-9), 5/2 (10-2), 6/1/1 (1-1), 6/1/2 (2-5), 6/2 (1-12), 7/1 (0-4), 7/2 (7-16), 8/1 (4-0), 8/2 (3-15), 9/1 (5-15), 10/2 (1-2), 11/2 (6-17), 12 (6-0), 13/1 (3-13), 13/2 (4-14), 14 (11-16), 17 (5-8), 18 (8-16), 19 (5-10), 20 (8-0), 21 (8-0), 22 (4-16), 23/1 (7-2), 23/2 (1-18), **85//15/2** (0-17), 16/1/2 (4-0), 16/2/2 (3-2), 25 (5-2), **86//5** (0-8), **87//1** (13-3), 2 (4-3), 168 (1-19) field's no. 183 measuring **100 Acre 2 Kanal 13 Marla**.

The landowners and the interested person have accepted the measurement and the classification of the land and no objection in this regard have been received from the acquiring Department also. The award of "Land Pooling scheme" shall be announced later on.

COST OF LAND

No landowners and interested person appeared in pursuance of the notice U/s 9 of the Act.

The Department was represented by **Sh. Jagdish Kadiyan, Assistant Manager(LA), Kundli**, who stated that the demand of the landowners was very high and the reasonable rate of land as sent by the Divisional Level Committee may be fixed. Ex-party proceeding was taken against those, who did not appear. The landowners are entitled to have that price which prevailed at the time of publication of notification U/s 4 of the Act.

The Commissioner Rohtak Division, Rohtak presided over the Divisional Level Committee meeting on 5-03-2013 held at 4:00 P.M. in the Commissioner office Room, Rohtak for fixation of the market rate of the land under acquisition. The Divisional Level Committee vide his letter endorsement No. 281-83, dated 11-03-2013 has supplied the market value/price/rate Rs. 35,00,000/- per acre up to the depth of five acre from Delhi Kharkhoda road and Rs. 30,00,000/- Per acre for remaining land.

Keeping in view the location of land and all other factors, which are essential for determination of the market value, I award Rs. 35,00,000/- per acre up to the depth of five acre from Delhi Kharkhoda road and Rs. 30,00,000/- per acre for remaining land.

By applying the above-mentioned rate, the price of land under acquisition has been worked out as under:-

Class of Land Acquired	Area under Acquisition			Total
	Acre	Kanal	Marla	
Class 'A'				
Nahri/Chahi/Gair Mumkin	30	4	4	10,68,37,500/-
Class 'B'				
Nahri/Chahi/Gair Mumkin	69	6	9	20,94,18,750/-
Total	100	2	13	31,62,56,250/-

Price of land according to Sub Section 1-A of section 23 of the land Acquisition Act, 1894.

The landowners and the interested persons will be entitled to 12% p.a. (36.09%) on the market value i.e. Rs. 31,62,56,250/- according to sub section 1-A of section 23 of the Act, which comes to Rs. 11,41,36,881/-

The landowners and the interested persons will be entitled to 30% Solatium which is consideration of compulsory nature of requisition on the total price of land i.e. Rs. 31,62,56,250/- which comes to Rs. 9,49,76,875/-

SHADOW TREES

Total thirty one shadow trees lie in the area under acquisition, whose assessment list was sent to me by the Divisional Forest Officer, Sonipat. The list of assessment for trees is as under:-

Sr. No.	Name of owner	Khewat/ Khata No	Rect. &/ Killa No.	Type of Property	Amount assessed by the Deptt. (Rupees)
1.	Om Parkash etc.	88	72//4	Vividh-1	3178/-
2.	Sardar Singh s/o Lal Chand	148	82//12	Vividh-1	1599/-
3.	Sudhir etc.	180	84//20	Vividh-1, Shisam,-1	17,166/-
4.	Rajmal etc.	181	84//19	Shisam-2	11,118/-
5.	Kartar Singh etc.	187	72//24	Shisam-1 Shisam-2	585/- 12385/-
6.	Dalel Singh etc.	179	84//6/1/2	Vividh-1	1599/-
7.	Deepak etc.	198	84//7/1	Vividh-1	393/-
8.	Smt. Sarni Devi etc.	231	84//14	Shisam, vividh, kiker=29	29948/-
Total				31	77035/-

I accept the assessment made by the Divisional Forest Officer, Sonipat and award accordingly **Rs. 77,035/-** for the cost of shadow trees.

The landowners and the interested persons will be entitled to 12% p.a.(36.09%) from the date of notification u/s-4 on the aforesaid value of Shadow trees i.e **Rs. 77,035/-** according to sub section 1-A of section 23 of the act which comes to **Rs. 27,802/-**

The landowners and the interested persons will be entitled to 30% Solatium which is consideration of compulsory nature of acquisition on the total price of Shadow trees i.e **Rs. 77,035/-**, which comes to **Rs. 23,111/-**

FRUIT TREES

The supplementary award of the fruit trees lie in the acquired land will be announced separately.

BUILDING & STRUCTURE

The supplementary award of the Building & Structure etc. lie in the acquired land will be announced separately.

TUBEWELLS

Total **thirty three tube wells** come in the area under acquisition, whose assessment list has been sent to me by the Assistant Agriculture Engineer, Sonipat. The assessment list of Tube wells are as under :-

Sr. No.	Name of owner	Khewat/ Khata No	Killa No.	Type of Property	Amount assessed by the Deptt. (Rupees)
1.	Ishwar Singh s/o Chet Ram	86	67//19/2	Tube well-1	14400/-
2.	Surat Singh s/o Hukem Chand	132	81//17/2, 22/1, 23/1	Well-1 Tube well-1 Tubewell-1	21600/- 12800/- 12800/-
3.	Om Parkash etc.	88	67//24	Tube well-1	13800/-
4.	Niranjan Singh etc.	129	72//10, 72//20	Tube well-1 Tubewell-1 Tubewell-1	13550/- 13550/- 19500/-
5.	Smt. Ram Kaur wd/o etc.	136	81//3/1	Tubewell-1	13550/-
6.	Sardar Singh etc.	137	81//1-2/3, 16	Tubewell-1 Tubewell-1	35050/- 35050/-
7.	Sardar Singh s/o Lal Chand	148	73//15/2, 82//10	Tubewell-1 Tubewell-1 Tubewell-1	21700/- 21700/- 36000/-
8.	Karan Singh etc.	151	80//17/1/2 /1	Tubewell-1	13550/-
9.	Karan Singh etc.	153	84//5/1	Tubewell-1	13550/-
10.	Satbir etc.	189	84//20, 21	Tubewell-1 Tubewell-1	12800/- 12800/-

11.	Rajmal etc.	181	84/2/2/2/2, 22	Tubewell-1 Tubewell-1	13550/- 13550/-
12.	Kartar Singh etc.	187	72/24	Tubewell-1	17000/-
13.	Mahabir etc.	191	85/25	Tubewell-1	13550/-
14.	Smt. Roshani Devi etc.	195	84/8/2	Tubewell-1	12600/-
15.	Krishan Kumar etc.	196	84/3/2	Tubewell-1	13550/-
16.	Dalel Singh etc.	197	84/6/1/2	Tubewell-1	13550/-
17.	Om Parkash etc.	199	80/22/2/1	Tubewell-1	13550/-
18.	Shri Bhagwan etc.	203	85/16/2/2	Tubewell-1	13550/-
19.	Sadhu etc.	213	81/11	Tubewell-1	13550/-
20.	Smt. Sarti Devi etc.	231	84/13/2	Tubewell-1	37000/-
21.	Smt. Chandro Devi w/o etc.	217	81/12/2	Tubewell-1	14400/-
22.	Chap Singh etc.	252	72/1/1/2	Tubewell-1	13550/-
23.	Smt. Barphi w/o etc.	253	72/3/1, 7/1	Tubewell-1 Tubewell-1	14400/- 14400/-
Total				33	5695000/-

I accept the assessment made by Assistant Agriculture Engineer, Sonipat and award accordingly Rs. 5,69,500/-or the cost of tube wells.

The landowners and the interested persons will be entitled to 12% p.a.(36.09%) from the date of notification u/s-4 on the aforesaid value of Tube well i.e Rs. 5,69,500/- according to sub section 1-A of section 23 of the act which come to Rs. 2,05,533/-

The landowners and the interested persons will be entitled to 30% Solatium which is consideration of compulsory nature of acquisition on the total price of Tube well i.e Rs. 5,69,500/- which comes to Rs. 1,70,850/-

POSSESSION OF LAND

Payment will be made to the land owners according to the shares and right as entitled in the ownership column of the last Jamabandi. However on account of death of any land owner the compensation could be paid to the legal heirs of the deceased. In case of dispute, the compensation amount will be kept in Bank till the contesting parties come to an amicable settlement or get the dispute decided by a competent court of law. Similarly in the case of absence of a land owner, the compensation amount will be kept in the Bank till the original payees turns up.

The acquired land will vest absolutely in the Government, free from all encumbrances with effect from today, the 3-04-2013.

MODE OF PAYMENT

Payment will be made to the land owners according to the shares and rights as entitled in the last "Jamabandi". However, on account of death of any landowner, the compensation could be paid to the legal heirs of the deceased. In case of dispute, the compensation amount will be kept in the Bank till the contesting parties come to an amicable settlement or get dispute decided by a competent court of law. Similarly in the case of absence of a land owner, the compensation amount will be kept in the Bank till the original payees turns up.

The acquired land will vest absolutely in the Government, free from all encumbrances with effect today, the 3-04-2013.

Subject to the above remarks, the award stands as follows:-

Serial No.	Price	Amount	12% p.a (36.09%) u/s23(1-A) of the Act	30% solatium	total
1.	Price of Land	316256250	114136881	94876875	525270006
2.	Price of Shadow trees	77035	27802	23111	127947
3.	Price of Tubewells	569500	205533	170850	945883
Total		**316902785**	**114370215**	**95070836**	**52,63,43,836**

(Rupees fifty two crore sixty three lacs forty three thousand eight hundred thirty six only)

Announced on 3-04-2013 at Tehsil, Kharkhoda in the presence of persons interested and notice U/s 12 (2) of the Act be issued to those who are not present.

District Revenue Officer-Cum-
Land Acquisition Collector, Sonipat

Place: - Tehsil, Kharkhoda
Dated: - 3-04-2013

Endst No. 190-194 /KGO LA Sonipat Dated 9-4-2013

A copy of the above is forwarded to the following for information:-

1. Financial Commissioner & Principal Secretary to Govt. of Haryana Industries Department, Chandigarh.
2. Director of Industries & Commerce, Haryana, Chandigarh.
3. Managing Director, Haryana State Infrastructure & Industries Development Corporation Limited, Plot No. C – 13 - 14 Sector-6, Panchkula.
4. Deputy Commissioner, Sonipat.
5. Senior Manager, HSIIDC, Industrial Estate, Kundli, Tehsil & District Sonipat.
6. Tehsildar Kharkhoda, he is requested to enter and sanction the mutation of land in question in favour of Haryana State (HSIIDC).

District Revenue Officer-Cum-
Land Acquisition Collector, Sonipat

DISTRICT SONIPAT

Award announced by Sh. Suresh Kumar, District Revenue Officer cum-Land Acquisition Collector, Sonipat

Award No. 53

Date of Award:- 3/04/2013

Village:- Saidpur

In pursuance of the Govt. Notification No.-2/1/4-1IB-II-2010, dated 1-04-2010, published in Govt. Gazette dated 1-04-2010 u/s-4 of the Land Acquisition Act, 1894 (hereinafter referred to as the Act) and declared vide Notification No. 2/1/4-1IB-II-2010, Dated 4-04-2011 u/s 6 of the Land Acquisition Act, 1894 thereinafter published in Govt. Gazette dated 4-04-2011 Total land acquired is 85 Acre 2 Kanal 19Marla at village Saidpur Hadbast No. 239 Tehsil Kharkhoda District Sonipat at public expense, for a public purpose, namely, for the development of Industrial Modern Township in revenue estate of villages Gopalpur, Pipli, Saidpur, Kundli, Rompur, Firozpur, Binger, Nizampur Khurd, Sehti, Pahaladpur and Beerana, Tehsil Kharkhoda District Sonipat

MEASUREMENT

The area given in the Notification u/s 6 of the Land Acquisition Act, 1894 is 85 Acre 7 Kanal 12 Marla, while the award has been announced of 85 acre 2 kanal 19 marla. The difference of 0 Acre 4 Kanal 13 Marla is due to clerical mistake. The land under acquisition lies in 201 fields as per detail given in form no. 1, prepared under paragraph 36 of the Financial Commissioner standing order no. 28. I agree with the classification of the basis of entries in the "Jamabandi" for the year 2008-09.

Class of Land Acquired	Area Under Acquisition		
	Acre	Kanal	Marla
Class 'A'			
Nahri/Chahi	84	3	16
Class 'B'			
Nahri/Chahi	0	7	3
	85	2	19

The details of khasra Nos. of the land under acquisition are as under:- 18/25 (0-15), 19/17/1/1 (0-5), 17/1/2 (1-12), 17/2 (1-13), 18 (6-4), 19 (3-11), 21 (6-2), 22/1 (4-7), 22/2 (3-4), 23 (7-4), 24 (7-9), 25/1 (1-11), 25/2 (0-10), 35/20/2 (1-3), 21 (7-15), 22/1 (3-16), 23/2 (0-

2), **36//**1/1/1 (0-3), 1/1/3 (1-12), 1/1/2 (2-12), 2/1 (0-10), 8/2 (1-14), 9 (6-11), 10 (8-0),11/1 (0-4), 11/2 (3-5), 11/3 (3-5), 11/4 (1-6), 12 (7-12), 13 (7-18), 14/1 (3-8), 16 (6-13), 17/1 (0-16), 17/2 (5-2), 18 (8-0), 19 (7-12), 20/1 (1-15), 20/2 (3-1), 20/3 (3-1), 20/4 (0-4), 21/1/1 (0-4), 21/1/2 (3-16), 21/2/1 (0-4), 21/2/2 (3-16), 22/1 (7-11), 22/2 (0-9), 23 (8-0), 24/1 (5-7), 24/2 (0-18), 25 (8-0), **37//**1/1 (6-15), 1/2 (0-17), 2 (7-12), 3 (8-0), 4/1/1 (2-7), 4/1/2/1 (1-10), 4/1/2/2 (0-3), 4/2/1/1 (1-7), 4/2/1/2 (0-7), 4/2/2 (2-7), 5/1 (2-0), 5/2 (2-0), 5/3 (1-2), 5/4/1 (1-5), 5/4/2 (1-12), 6/1 (1-4), 6/2/1 (0-15), 6/2/2 (0-12), 6/2/3 (1-3), 6/2/4 (2-9), 6/2/5 (1-18), 7/1 (0-3), 7/2 (0-14), 7/3 (0-14), 7/4 (1-7), 7/5 (0-10), 7/6 (2-6), 7/7 (2-6), 8 (8-0), 9 (8-0), 10 (7-12), 11/1 (2-11), 11/2 (2-11), 11/3 (2-11), 12/1 (2-13), 12/2 (2-13), 12/3 (2-13), 13 (8-0), 14 (8-0), 15/1 (2-17), 15/2 (2-17), 15/3 (1-3), 15/4 (1-4), 16/1 (1-3), 16/2 (0-1), 16/3 (1-10), 16/4 (2-13), 16/5 (2-13), 17 (8-0), 18 (8-0), 19 (8-2), 20 (5-4), 23 (4-4), 24 (7-13), 25/1/1 (0-8), 25/1/2 (0-8), 25/2/1 (0-1), 25/2/2 (1-3), **38//**5 (4-4), 6 (8-0), 7 (6-13), 8 (1-10), 13 (3-5), 14 (6-13), 15 (8-0), 16 (2-2), **39//**4 (0-3), 5 (2-5), **40//**1 (2-16), 2 (3-13), 3 (6-9), 4/1 (5-4), 4/2 (1-4), 5 (8-0), 6 (3-0), 7/1 (0-9), 7/2 (0-15), **41//**1/1 (6-4), 1/2 (1-16), 2/1 (4-9), 2/2 (3-11), 3/1 (3-15), 3/2 (2-9), 4/1 (1-0), 6/2 (3-0), 7 (6-13), 8/1 (4-0), 8/2 (2-2), 9 (4-11), 10 (3-9), **42//**18/2 (3-2), 19 (3-12), 22 (4-16), 23 (8-0), 24 (5-13), 25/1 (0-15), **54//**1 (1-18), 9 (1-19), 10 (7-16), 11 (8-0), 12 (6-0), 13 (0-16), 18 (5-12), 19/1 (2-0), 19/2 (0-10), 20 (8-0), 21 (8-0), 23/1/1 (3-8), 23/1/2 (1-12), 23/2/1 (0-8), 23/2/2 (2-9), 23/2/3 (0-3), 24/1 (0-1), 24/2 (3-4), **55//**2 (0-16), 3 (3-13), 4 (7-3), 5 (7-7), 6 (8-0), 7 (5-4), 14 (6-2), 15 (8-0), 16 (7-11), 17 (2-5), 25 (3-12), **56//**3/2 (0-4), 4 (5-9), 5 (1-10), 6/1 (4-5), 7/1 (1-10), 14/1/2 (1-16), 14/2 (3-10), 15/1 (1-0), 16 (6-7), 17 (1-17), **57//**11 (3-9), 19 (2-8), 20 (8-0), 21 (2-17), 22 (7-1), 23 (0-15), **62//**21/1 (0-18), **63//**2 (0-18), 3 (3-19), 7/2 (1-0), 14 (0-10), 15 (0-4), **64//**1 (1-19), 9/1 (0-19), 9/3 (0-11) fields no. 201 measuring 85 acre 2 Kanal 19 marla.

The landowners and the interested persons have accepted the measurement and the classification of the land and no objection in this regard have been received from the Acquiring Department also. The award of 'Land Pooling Scheme" shall be announced later on.

COST OF LAND

No landowners and interested persons appeared in the pursuance of the notice u/s 9 of the LA Act.

The department was represented by **Sh. Jagdish Kadiyan, Assistant Manager(IA), HSIIDC, Kundli** who stated that the demand of the landowners was very high and the reasonable rate of land as sent by the Divisional Level Committee may be fixed. Ex-parte proceeding was taken against those, who did not appear. The landowners are entitled to have that price which prevailed at the time of publication of notification u/s 4 of the Act.

The commissioner, Rohtak Division, Rohtak presided over the Divisional Level Committee meeting on 5-03-2013 held at Deputy Commissioner's office room, Sonipat for fixation of the market rate of the land under acquisition. The Divisional Level Committee vide

his letter endorsement no.281-83 Dated 11-03-2013 has supplied the market value/price/rate **Rs. 35,00,000 /-** per acre up to the depth of five acre from Kharkhoda Delhi road and **Rs. 30,00,000/-** per acre for remaining land for every kind of land.

Keeping in view the location of land and all other factors, which are essential for determination of the market value, I award **Rs. 35,00,000 /-** per acre up to the depth of five acre from Kharkhoda Delhi road and **Rs. 30,00,000/-** per acre for remaining land for every kind of land.

By applying the above-mentioned rate, the price of land under acquisition has been worked out as under:-

Class of Land Acquired	Area under Acquisition			Total
	Acre	Kanal	Marla	
Class 'A'				
Nahri/Chahi	84	3	16	29,56,62,500/-
Class 'B'				
Nahri/Chahi	0	7	3	26,81,250/-
	85	2	19	29,83,43,750/-

Price of land according to sub section 1-A section 23 of the Land Acquisition Act, 1894.

The landowners and interested persons will be entitled to 12% p.a (36.09%) on the market value i.e Rs. 29,83,43,750/- according to sub section 1-A of section 23 of the Act, which comes to **Rs. 10,76,72,259/-**

The landowners and interested persons will be entitled to 30% solatium which is consideration of compulsory nature of acquisition on the total price of land i.e **Rs 29,83,43,750/-** which comes to **Rs. 89503125/-**

SHADOW TREES

Total twenty one shadow trees lie in the area under acquisition, whose assessment list was sent to me by Divisional Forest Officer, Sonipat. The list of assessment for trees is as under:-

Sr. No.	Name of owner	Khewat /Khata no.	Rect. & Killa No.	Type of property	Amount assessed by the deptt.(in rupees)
1.	Ameer singh etc.	59	41//1/1	Vividh-2	3198/-
2.	Smt Nirmla etc.	355	37//14	Vividh-3	3591/-
3.	Smt. Poonam etc.	396	37//7/1	Vividh-1	9263/-
4.	Nayaderi wd/o etc.	416	42//25/1	Vividh-1	393/-

5.	Shiv Mandir, Gram Vikash Parisad etc.	472	42//24	Vividh-1	1599/-
6.	Rishala etc.	603/685	36//25	Vividh/kiker-6 Vividh-1	3676/- 1599/-
7.	Gram Panchyat	603/695	55//25	Vividh/kiker-3, Vividh-3	6825/- 6368/-
Total				21	36812/-

I accept the assessment made by the Divisional Forest Officer, Sonipat and award accordingly **Rs. 36,812/-** for the cost of shadow trees.

The landowners and interested persons will be entitled to 12% p.a (36.09%) from the date of notification u/s 4 on the aforesaid value of shadow trees i.e **Rs. 36,812/-** according to sub section 1-A of section 23 of the Act, which comes to **Rs. 13,285/-**.

The landowners and interested persons will be entitled to 30% solatium which is consideration of compulsory nature of acquisition on the total price of shadow trees i.e **Rs 36,812/-** which comes to **Rs. 11,044/-**.

FRUIT TREES

Total one fruit tree lies in the area under acquisition, whose assessment list has been sent to me by District Horticulture Officer, Sonipat. The list of assessment for the fruit trees is as under;-

Sr. No.	Name of owner	Khewat/Khata no.	Rect. & killa no	Type of property	Amount assessed by the deptt. (rupees)
1.	Ameer Singh etc.	59	41//2/2	Beri-1	7090/-

I accept the assessment made by the Divisional Horticulture Officer, Sonipat and award accordingly **Rs. 7,090/-** for the cost of fruit trees.

The landowners and interested persons will be entitled to 12% p.a (36.09%) from the date of notification u/s 4 on the aforesaid value of fruit trees i.e **Rs. 7,090/-** according to sub section 1-A of section 23 of the Act, which comes to **Rs. 2,559/-**.

The landowners and interested persons will be entitled to 30% solatium which is consideration of compulsory nature of acquisition on the total price of fruit trees i.e **Rs 7,090/-** which comes to **Rs. 2,127/-**.

TUBEWELL

Total seven tubewells come in the area under acquisition, whose assessment list has been sent to me by the Assistant Agriculture Engineer, Sonipat. The assessment list of tubewells area as under:-

Sr. No.	Name of owner	Khewat /Khata no.	Killa no.	Type of property	Amount of assessed by the deptt. (rupees)
1.	Smt. Nirmla etc.	355	18//25, 37//13, 37//14	Tubewell-1 Tubewell-1 Well-1	13200/- 13200/- 28800/-
2.	Ranbir singh etc.	367	41//7	Tubewell-1	16750/-
3.	Traun Kumar s/o Badri Parsad	399	37//7/5	Tubewell-1	17000/-
4.	Ravinder etc.	461	38//13, 15	Tubewell-1 Tubewell-1	17700/- 17700/-
Total				7	1,24,350/-

I accept the assessment made by Assistant Agriculture Engineer, Sonipat and award accordingly **Rs. 1,24,350/-** for the cost of tubewells.

The landowners and interested persons will be entitled to 12% p.a (36.09%) from the date of notification u/s 4 on the aforesaid value of tubewells i.e **Rs. 1,24,350/-** according to sub section 1-A of section 23 of the Act, which comes to **Rs. 44,878/-**

The landowners and interested persons will be entitled to 30% solatium which is consideration of compulsory nature of acquisition on the total price of tubewells i.e Rs **1,24,350/-** which comes to **Rs. 37,305/-**

BUILDING & STRUCTURE

The supplementary award of the building & structure lies in the acquired land will be announced separately.

POSSESSION OF LAND

The possession of 85 acre 2 Kanal 19 marla land under acquisition has been delivered to the concerned Department i.e **3-04-2013.**

MODE OF PAYMENT

Payment will be made to the land owners according to the shares and rights as entitled in the last "Jamabandi". However, on account of death of any landowner, the

compensation could be paid to the legal heirs of the deceased. In case of dispute, the compensation amount will be kept in the Bank till the contesting parties come to an amicable settlement or get dispute decided by a competent court of law. Similarly in the case of absence of a landowner, the compensation amount will be kept in the bank till the original payees turns up.

The acquired land will vest absolutely in the Government, free from all encumbrances with effect today, the 3-04-2013.

Subject to the above remarks, the award stands as follows:-

Sr. No.	Price	Amount	12% p.a (36.09%) u/s 23 (1&A)	30% Solatium	Total
1.	Price of Land	298343750	107672259	89503125	495519134
2.	Price of shadow trees	36812	13285	11044	61141
3.	Price of fruit trees	7090	2559	2127	11776
4.	Price of tubewells	124350	44878	37305	206533
Total		298730311	107811760	89619093	49,57,98,584

(Rupees forty nine crore fifty seven lacs ninety eight thousand five hundred eighty four only)

Announced on 3-04-2013 at Tehsil, Kharkhoda in the presence of persons interested and notice u/s 12 (2) of the Act be issued to those who are not present.

District Revenue Officer-cum
Land Acquisition Collector, Sonipat

Place:- Tehsil, Kharkhoda
Dated:-3-04-2013
Endst. No. 185-89 **/Kgo LA Sonipat** **Dated** 9-4-2013

A copy of the above is forwarded to the following for information:-

1. Financial Commissioner & Secretary to Govt. of Haryana Industries Department, Chandigarh.
2. Director of Industries & Commerce, Haryana, Chandigarh.
3. Managing Director, Haryana State Infrastructure & Industries Development Corporation Ltd. Plot No. C 13-14, Sector-6, Panchkula.
4. Deputy Commissioner, Sonipat.
5. Senior Manager(IA), HSIIDC, Industrial Estate, Kundli, Tehsil & District Sonipat.
6. Tehsildar, Kharkhoda, he is requested to enter and section the mutation of land in favour of Haryana State (HSIIDC)

District Revenue Officer-cum
Land Acquisition Collector, Sonipat

DISTRICT SONIPAT

Award announced by Sh. Suresh Kumar, District Revenue Officer-Cum- Land Acquisition Collector, Sonipat.

Award No. –54

Date of Award: - 3-04-2013

Village:- Firozpur Banger

In pursuance of the Govt. Notification No. 2/1/4-IIB-112010, dated 1-04-2010, published in Govt. Gazette dated 1-04-2010 U/s-4 of the Land Acquisition Act, 1894 (hereinafter referred to as the Act) and declared vide Notification No. 2/1/4-IIB-II-2010, dated 4-04-2011 U/s-6 of the Land Acquisition Act, 1894 thereinafter published in Govt. Gazette dated 4-04-2011 Total Land Acquired is 8 **Acre 4 Kanal 3 Marla** at **Village Firozpur Banger** Hadbast No. 237, Tehsil Kharkhoda District Sonipat at public expense, for a public purpose, namely, for the Development of industrial modern township in the revenue estate of villages Gopal pur, Pipli, Saidpur, Kundal, Rampur, Firozpur, Banger, Nizampur Khurd, Sohati, Pahaladpur and Barona Tehsil Kharkhoda District Sonipat.

MEASUREMENT

The area given in the Notification U/s 6 of the Land Acquisition Act, 1894 is **8 Acre 4 Kanal 8 Marla**, while the award has been announced of **8 Acre 4 Kanal 3 Marla**. An area of 5 marla was not in acquisition scheme but inadvertently, the same was notified u/s 4 & 6 of LA Act. So the difference of 0 Acre 0 Kanal 5 Marla is due to inadvertent error of notification u/s 4 & 6. The Land under acquisition lies in **fields No. 16** as per detail given in form No. I, prepared under paragraph no. 36 of the Financial Commissioner standing order No. 28. I agree with the classification of the basis of entries in the "Jamabandi" for the year 2005-06.

Class of Land Acquired	Area under Acquisition		
	Acre	Kanal	Marla
Nahri/Chahi/Gair Mumkin	**8**	**4**	**3**

The details of Khasra Nos. of the land under acquisition are as under: - **26/18 (1-9), 23/1 (0-15), 23/2 (2-1), 24 (8-6), 25/1 (1-2), 37//10 (4-15), 38/3 (6-18), 4 (8-0), 5/2/1 (2-9), 5/2/2 (3-16), 6 (7-11), 7 (7-11), 8 (7-4), 9 (2-9), 13/1 (3-11), 13/2 (0-6) field's no. 16 measuring 8 Acre 4 Kanal 3 Marla.**

The landowners and the interested persons have accepted the measurement and the classification of the land and no objection in this regard have been received from the acquiring Department also.

COST OF LAND

No landowners and interested person appeared in pursuance of the notice U/s 9 of the Act.

The Department was represented by **Sh. Jagdish Kadiyan, Assistant Manager(IA), Kundli,** who stated that the demand of the landowners was very high and the reasonable rate of land as sent by the Divisional Level Committee may be fixed. Ex-party proceeding was taken against those, who did not appear. The landowners are entitled to have that price which prevailed at the time of publication of notification U/s 4 of the Act.

The Commissioner Rohtak Division, Rohtak presided over the Divisional Level Committee meeting on **5-03-2013** held at 4:00 P.M, in the Commissioner office Room, Rohtak for fixation of the market rate of the land under acquisition. The Divisional Level Committee vide his letter endorsement No. 281-83, dated 11-03-2013 has supplied the market value/price/rate **Rs. 35,00,000/-** Per acre for every kind of land.

Keeping in view the location of land and all other factors, which are essential for determination of the market value, I award Rs. **35,00,000/-** per acre for every kind of land.

By applying the above-mentioned rate, the price of land under acquisition has been worked out as under:-

Class of Land Acquired	Area under Acquisition			Total
	Acre	Kanal	Marla	
Nahri/Chahi/Gair Mumkin	8	4	3	2,98,15,625/-

Price of land according to Sub Section 1-A of section 23 of the land Acquisition Act, 1894.

The landowners and the interested persons will be entitled to 12% p.a. (36.09%) on the market value i.e. **Rs. 2,98,15,625/-** according to sub section 1-A of section 23 of the Act, which comes to **Rs. 1,07,60,459/-**

The landowners and the interested persons will be entitled to 30% Solatium which is consideration of compulsory nature of acquisition on the total price of land i.e. **Rs. 2,98,15,625/-** which comes to **Rs. 89,44,688/-**

SHADOW TREES

Total twenty shadow trees lie in the area under acquisition, whose assessment list was sent to me by the Divisional Forest Officer, Sonipat. The list of assessment for trees is as under:-

Sr. No.	Name of owner	Khewat/ Khata No	Rect. & Killa No.	Type of Property	Amount assessed by the Deptt. (Rupees)
1.	Smt. RajRani w/o Krishan Dev	98 min	**38//13/1**	Vividh-6	1233/-
2.	Subhash etc.	357	**37//10**	Vividh/Kiker-4	3947/-
3.	Ram Niwash s/o Ram Nath	358	**38//5/2/1**	Vividh-2,	4769/-
4.	Shamlat Pana	476 min	26//23/2, 25/1	Vividh-1 Vividh-6	393/- 6341
5.	Smt Jai Dei etc.	437 min	38//8	Vividh-1	1599/-
Total				20	18282/-

I accept the assessment made by the Divisional Forest Officer, Sonipat and award accordingly **Rs. 18,282/-** for the cost of shadow trees.

The landowners and the interested persons will be entitled to 12% p.a.(36.09%) from the date of notification u/s-4 on the aforesaid value of Shadow trees i.e **Rs. 18,282/-** according to sub section 1-A of section 23 of the act which comes to **Rs. 6,598/-**

The landowners and the interested persons will be entitled to 30% Solatium which is consideration of compulsory nature of acquisition on the total price of Shadow trees i.e Rs. 18,282/- which comes to **Rs. 5,485/-**

FRUIT TREES

Total **twelve fruit trees** lie in the area under acquisition, whose assessment list is sent to me by the Horticulture Department, Sonipat. The list of assessment for fruit trees is as under:-

Sr. No.	Name of the Owner	Khawat No.	Killa No.	Type of Property	Amount assessed by the Department Rupees
1.	Smt. RajRani s/o Krishan Dev	98	38//13/1	Pich-2, Amrood-9,	4960/- 45522/-
2.	Smt. Jai Dei etc.	437 min	38//8	Jmmun-1	9978/-
Total				12	59550/-

I accept the assessment made by the Horticulture Department, Sonipat and award according **Rs. 59550/-** for the cost of fruit trees.

The owners will be entitled 12% (36.09%) p.a over the aforesaid value of fruit trees i.e **Rs. 59550/-** according to Sub Section-1A of Section 23 of the Act, which comes to **Rs. 21,492/-**.

The owner will be entitled 30% solatium in consideration of compulsory nature of acquisition on the aforesaid value of fruit trees i.e **Rs. 59550/-**, which comes to Rs. 17,865/-

BUILDING & STRUCTURE

The supplementary award of the Building & Structure etc. lie in the acquired land will be announced separately.

TUBEWELLS

Total **six tube wells** come in the area under acquisition, whose assessment list has been sent to me by the Assistant Agriculture Engineer, Sonipat. The assessment list of Tube wells are as under :-

Sr. No.	Name of owner	Khewat/ Khata No	Killa No.	Type of Property	Amount assessed by the Deptt. (Rupees)
1.	Smt. Raj Rani w/o Krishan Dev	98	38//13/1	Tube well-1	144000/-
2.	Subash etc.	357	38//3	Tube well-1	31800/-
3.	Shamlat Pana	476	26//23/2	Tube well-1	31500/-
4.	Shamlat Deh	477 min	38//9	Tube well-1	32500/-
5.	-Do-	575	26//18	Tubewell-1	58300/-
6.	Smt. Jai Dei etc.	437 min	38//8	Tubewell-1	36300/-
	Total			6	334400/-

I accept the assessment made by Assistant Agriculture Engineer, Sonipat and award accordingly **Rs. 334400/-**or the cost of tube wells.

The landowners and the interested persons will be entitled to 12% p.a.(36.09%) from the date of notification u/s-4 on the aforesaid value of Tube well i.e **Rs. 3,34,400/-** according to sub section 1-A of section 23 of the act which come to **Rs. 1,20,685/-**

The landowners and the interested persons will be entitled to 30% Solatium which is consideration of compulsory nature of acquisition on the total price of Tube well i.e **Rs. 3,34,400/-** which comes to **Rs. 1,00,320/-**

POSSESSION OF LAND

Payment will be made to the land owners according to the shares and right as entitled in the ownership column of the last Jamabandi. However on account of death of any land owner the compensation could be paid to the legal heirs of the deceased. In case of dispute, the compensation amount will be kept in Bank till the contesting parties come to an amicable settlement or get the dispute decided by a competent court of law. Similarly in the case of absence of a land owner, the compensation amount will be kept in the Bank till the original payees turns up.

The required land will vest absolutely in the Government, free from all encumbrances with effect from today, the **3-04-2013.**

E OF PAYMENT

Payment will be made to the land owners according to the shares and rights as entitled in the last "Jamabandi". However, on account of death of any landowner, the compensation could be paid to the legal heirs of the deceased. In case of dispute, the compensation amount will be kept in the Bank till the contesting parties come to an amicable settlement or get dispute decided by a competent court of law. Similarly in the case of absence of a land owner, the compensation amount will be kept in the Bank till the original payees turns up.

The acquired land will vest absolutely in the Government, free from all encumbrances with effect today, the **3-04-2013.**

Subject to the above remarks, the award stands as follows:-

Serial No.	Price	Amount	12% p.a (36.09%) u/s23(1-A) of the Act	30% solatium	total
1	Price of Land	29815625	10760459	8944688	49520772
2	Price of Shadow trees	18282	6598	5485	30365
3	Price of Fruit trees	59550	21492	17865	98907
4	Price of Tubewells	334400	120685	100320	555405
Total		30227857	10909234	9068358	5,02,05,449

(Rupees five crore two lacs five thousand four hundred forty nine only)

Announced on 3-04-2013 at Tehsil, Kharkhoda in the presence of persons interested and notice U/s 12 (2) of the Act be issued to those who are not present.

Sd.
District Revenue Officer-Cum-
Land Acquisition Collector, Sonipat

Place: - Tehsil, Kharkhoda
Dated: - 3-04-2013

End's: No. 190-94 /KCO LA Sonipat Dated 3-4-013

A copy of the above is forwarded to the following for information:-

1. Financial Commissioner & Principal Secretary to Govt. of Haryana Industries Department, Chandigarh.
2. Director of Industries & Commerce, Haryana, Chandigarh.
3. Managing Director, Haryana State Infrastructure & Industries Development Corporation Limited, Plot No. C – 13 - 14 Sector-6, Panchkula.
4. Deputy Commissioner, Sonipat.
5. Senior Manager, **HSIIDC,** Industrial Estate, Kundli, Tehsil & District Sonipat.
6. Tehsildar Kharkhoda, he is requested to enter and sanction the mutation of land in question in favour of Haryana State **(HSIIDC).**

District Revenue Officer-Cum-
Land Acquisition Collector, Sonipat

HSIIDC

Minutes of the 321[st] meeting of the Board of Directors of HSIIDC held on 29[th] August, 2013 at 11.30 A.M. in the Board Room of the Corporation, C-13 & 14, Sector-6, Panchkula

Item No.13 Approval of revised village & skill development scheme in line with the provisions of the Rehabilitation & Resettlement Policy - 2010 of the State of Haryana, for the villages whose land is acquired for development of Industrial Estates/ Industrial Model Townships/Industrial Parks.

Resolved that the revised proposal for village and skill development scheme, in line with the provisions of the R&R Policy -2010, as applicable for the land acquired for development of Industrial Estates/ IMT/Industrial parks, as circulated to the Board, be and is hereby approved.

Further resolved that the Managing Director be and is hereby authorised to take further necessary steps in the matter.

Dy. Company Secretary

Endst. No. HSIIDC:CS:2013 :345 Dated: 05.09.2013

A copy of the above is forwarded to the following for information and taking necessary action.

Relates KIA Div.

General Manager (Estate)

6/9/2013

Dy. S.

6/9/13

GM

5/1X/13

Mgr (AK)

321st Board Meeting
Agenda Item No._____

Subject: **Approval of revised village & skill development scheme in line with the provisions of the Rehabilitation & Resettlement Policy-2010 of the State of Haryana, for the villages whose land is acquired for development of Industrial Estates/Industrial Model Townships/Industrial Parks.**

HSIIDC being the nodal agency of State Govt., acquires land for development of Industrial Estates/IMTs/Growth Centre/IIDCs in the State of Haryana. In order to provide help and succour to the land owners whose land is acquired for the purpose, a scheme was approved by BoD/HSIIDC in its 206th meeting held on 27.03.1995, making provision therein of the Village Amenities Fund to the extent of 1% of the total project cost of industrial park for the development works of public benefit in the villages whose land is acquired and a Skill Development Fund of 1% of the cost of acquisition of land for giving training in skill development. This was subsequently modified in the 310th BoD meeting held on 19.08.2010, revising the provision of Village Amenities Fund from 1% to 2% of the estimated infrastructure development cost, keeping the provision of 1% of the cost of acquisition of land the same for giving training in skill development, with certain other amendments/flexibilities as mentioned hereunder:

i) To utilize funds of village amenities of one village into other affected villages, in case no proposal as such is received from the eligible village Panchayat.

ii) To utilize the skill development fund (1% of Land acquisition cost as per award) of one village into another affected villages, if no proposal as such is received from the eligible village Panchayat.

iii) In case the funds meant for skill development could not be utilized for the purpose, the same may be utilized for development works of public benefit.

Subsequently the Rehabilitation & Resettlement Policy-2010 of the State Government has been issued making provision therein of Social & Community Infrastructure Facilities, which is reproduced hereunder:

"i) Wherever land is acquired by the Government for development by HUDA, HSIIDC, and the HSAMB, an amount equal to 2% of the Compensation Amount will be

set apart by the respective organisations for creation of community development/ infrastructure works in the respective villages.

Further, area in the close vicinity of the village will be set apart not only for rehabilitation, but also for necessary village level social infrastructure. The land required for social infrastructure could either be exchanged with the land of village Panchayat or the land acquired in continuity of the village can be transferred to village Panchayat together with the infrastructure developed thereon for its day to day management.

ii) Similarly, 1% of the Compensation amount will be set apart and expended on skill development initiatives for the dependents of oustees and other landless persons dependent on agriculture operations over the acquired land."

Keeping in view the above and in order to maintain uniformity, it is proposed that the provisions made in the Rehabilitation & Resettlement Policy-2010 of State of Haryana, as above may be adopted henceforth, in respect of Social & Community Infrastructure facilities in the villages affected by land acquisition for development of the Industrial Estates/Industrial Model Townships/Industrial Parks by the Corporation. The other flexibilities with regard to utilization of the funds so allocated as approved by BoD in its 310th meeting may be kept the same.

Board is, therefore, requested to consider the above proposal and to approve the following:

1. To make provision & utilization of 2% of the compensation amount (at the stage of announcement of initial award by Land Acquisition Collector) for creation of community development/infrastructure works of public benefit in the villages affected by the acquisition of land by the Government for development of an Industrial Estate/Industrial Model Township by HSIIDC. This amount would be spent proportionately as per the land share acquired of different villages, in line with the provisions of the Rehabilitation & Resettlement Policy-2010 of the State Government.

2. To make provision & utilization of 1% of the compensation amount (at the stage of announcement of initial award by Land Acquisition Collector) for skill development initiatives for the dependents of oustees and other landless persons dependent on agriculture operations over the land acquired by the Government for development of

an Industrial Estate/Industrial Model Township by HSIIDC, proportionately as per the land share of different villages, in line with the provisions of the Rehabilitation & Resettlement Policy-2010 of the State Government.

3. i) To utilize funds of village amenities of one village into other affected villages, in case no proposal as such is received from the concerned village Panchayat,

ii) To utilize the skill development fund of one village into other affected villages, if no proposal as such is received from the concerned village Panchayat,

iii) In case the funds meant for skill development can not be utilized for the purpose, the same may be utilized for development works of public benefit in the village, if the resolution to this effect is received from the concerned village Panchayat.

4. To make this policy applicable in the Industrial Estates/IMTs where the works of village amenities and the skill development are to be taken up after the approval of this agenda item by BoD/HSIIDC and where these works have not yet been started in any of the villages affected by the land acquisition for that particular Estate/IMT.

5. To authorize Managing Director to take further action in this regard.

Approved by Managing Director

Annexure – 'III'

REHABILITATION & RESETTLEMENT POLICY

Govt., of Haryana has formulated a policy for rehabilitation and resettlement of land owners – land acquisition oustees and notified vide notification dated 09.11.2010. The silent features of the R & R policy are as under:

I. Annuity:

i) The land owners will be paid annuity for 33 years over and above the usual land compensation. The amount of annuity will be Rs. 21,000/- per acre per annum.

ii) Annuity of Rs. 21,000/- will be increased by a fixed sum of Rs. 750/- every year.

iii) In respect of land acquired in terms of land acquisition policy for settling up of Special Economic Zone/Technology cities, Technology Parks in addition to rehabilitation and resettlement package notified by Industries and commerce Department vide No.49/48/2006-41BL dated 4th May, 2006, a sum of Rs. 42,000/- per acre annual will be paid for a period of 33 years by private developers and this annuity will be increased by Rs. 1,500/- every year.

iv) The policy by paying annuity will be applicable to all cases of land acquisition by Govt., except land acquired for defense purpose.

Allotment of residential plots in cases where a self-occupied residential house is acquired for unavoidable reasons:

i) Recognizing the sensitivity involved in acquisition of built-up residential houses/ structures for unavoidable reasons, the Government has decided to accord the highest priority to the resettlement of this category of persons. In the first instance, all efforts will be made by the acquiring departments to leave out the residential structures existing in the form of clusters from acquisition except where it becomes absolutely unavoidable either due to its stand-alone character or its location being within the Right of Way of infrastructure projects such as roads, canals, railway line etc.;

ii) Accordingly, it has been decided that wherever any self-occupied residential structure/ house has to be acquired for unavoidable reasons in the process of acquisition of land by the

Government for any purpose, such owners of built-up residential structures would be offered assured allotment of residential plots as per the following scale:

Scale of residential plots in cases where an existing self-occupied house/ residential structure is acquired	
Size of residential house acquired	**Size of residential plot to be allotted**
150sq.yd.	90 sqm
150 to 200 sq.yd.	150 sqm
Above 200 and up to 250 sq. yards	200 sqm
Above 250 and up to 300 sq. yards	250 sqm
Above 300 and up to 400 sq. yards	300 sqm
Above 400 and up to 500 sq. yards	350 sqm
Above 500 sq. yards	450 sqm

Categories of Land Acquisition Cases:

It has been observed that the Government acquires land for various infrastructure projects, which could be broadly clubbed under the following two categories:

i) Projects where the urban/ industrial/ agriculture marketing infrastructure is developed in the form of large clusters by the state agencies i.e. the HUDA, the HSIIDC, and the HSAMB, for which comparatively large mass of land is acquired for development of planned infrastructure;

ii) Projects where the land is either acquired in smaller pockets (e.g. water works and STPs of the Public Health Engineering Departments or the Power Sub-stations set-up by the power utilities) or where the land is acquired in a linear/ strip form for construction of roads and canals etc.

Whereas it has been found feasible to grant certain benefits in respect of the cluster development projects, the same has not been found feasible in the second category cases.

Benefits for the affected persons whose land is acquired for HUDA, HSIIDC and the HSAMB:

Recognising that the Government is expected to address the concerns of all sections of landowners to the extent possible, it has been decided to follow a two-pronged strategy in

this behalf. Accordingly, it has been decided to grant the following benefits to the landowners whose land is acquired for HUDA, HSIIDC, and the HSAMB:

i) Reservation and allotment of residential plots for the land-oustees, and

ii) Provision for allotment of commercial booth-sites/ industrial plots to the landowner in whose case 75% or more of his land in a revenue estate, subject to a minimum of one acre, is acquired.

Allotment of 'oustee-category' residential plots in cases of land acquisition for development of infrastructure HUDA, HSIIDC, and the HSAMB.

i) Where the land is acquired for development of planned urban infrastructure by HUDA, or development of planned industrial infrastructure by the HSIIDC, or marketing infrastructure by the HSAMB, developed residential plots will be reserved for assured allotment to the land oustees as per the following scale:

Allotment of in cases where only land is acquired (Oustee Quota Plots)	
Land/area acquired	**Size of residential plot to be allotted**
100 to500 sq.yd.	90 sq. mtrs
501 to 1000 sq.yd.	150 sq. mtrs
1001 sq. yd. to ½ acre	200 sq. mtrs
Above ½ acre to ¾ acre	300 sq. mtrs
Above ¾ acre to 1 acre	350 sq. mtrs
One acre and above	450 sq. mtrs

ii) The rates of residential plots reserved for allotment to the land oustees, in both the above categories, as per the scale prescribed, would be 20% lesser than the nodal price applicable for the general public at the time of first floatation in the case of HUDA and HSIIDC, in all other cases the rates of plots would be determined by the acquiring departments/ organisations based on the actual costs taking into account (a) the cost of acquisition of land, (b) costs incurred on provision of minimum amenities/ services, and (c) loading of the areas under roads/ streets/ services and utilities on to the plotted area;

iii) Each of the co-sharers, depending upon his share in the land acquired as per the entries in the revenue records at the time of issue of Section 4 Notification, would be entitled to the allotment of a plot under the 'oustee category'. The co-sharers would be limited to the

persons mentioned in the revenue records on the date of Section 4 Notification. Wherever any such landowner/ co-sharer dies during the intervening period of Section 4 Notification and the Award, the natural successors will be treated as one single unit;

iv) As regards the co-sharers, it may be clarified that the entitlement for size of the plot would be determined based on the share of each of the co-sharers as on the date of Section 4 Notification. Further, under no circumstances, the total land under the plots allotted to the co-sharers put together would exceed 50% of the total acquired land of such co-sharers. An illustrative list of the entitlements is enclosed with this policy as Appendix-2.

v) In cases where the land of a landowner is acquired in phases, and he becomes entitled to a bigger size of the plot due to subsequent acquisition, he would be entitled to additional area as per his revised entitlement. In such cases, either (a) the plot allotted as per the original entitlement may be upgraded as per his entitlement, or (b) in case he has already utilised/ transferred the earlier allotted plot, he may be allotted an additional plot as per his entitlement on account of the net additional area.

vi) In case a landowner or co-sharer avails of a plot under para (5), he will not be entitled to a second plot in the 'oustees category' under para 8. Such a person, however, will have the option to either apply for allotment of a plot under para 5 or para 8 of this Policy. The landowner interested in availing this benefit would be required to submit his application in the prescribed Application Form -5.

vii) No litigation should be pending in respect of the acquired land, except a reference under Section 18 of the Act, in order to be eligible for allotment of an 'oustee category' plot under the Scheme.

viii) The acquiring department/ development agency will earmark a separate chunk of land, preferably close to the village in close vicinity of the ToshiAbadi, for carving out 'oustee category plots' for the landowners as stated under para 5(vi) above.

The allotment of 'Oustee Category' Plots will precede the allotment of 'General Category' plots.

Allotment of Commercial/ Industrial Sites:

i) Where 75% of the land-holding of a landowner/co-sharer in a revenue estate, measuring one acre or above, is acquired by the Government for HUDA, HSIIDC, and the HSAMB,

thereby substantially impacting his means of sustenance, developed commercial/ industrial sites would be reserved and allotted to such land oustees as per the following criterion:

ii) The allotment of commercial sites/ industrial plots would be made to each cosharer provided his share in the acquired land is one acre or more, otherwise all the co-sharers will be allotted a site(s) as per entitlement. In case the total acquired land of all the co-sharers put together is less than one acre, they would not be entitled to this facility. Illustrations given in Appendix-2 may be referred for any clarity;

1	Commercial Sites measuring 3 mtr x 4 mtr (12 sq. mtrs)	To be allotted by HUDA/ HSIIDC/ HSAMB at the Reserve Price, which will be no more than 3 times of the price of residential plot in that area/ sector.
2	Industrial Plot measuring 450 sqmtrs. in the case of HSIIDC	A landowner oustee eligible under this category will have the option in the case of HSIIDC to opt for the Commercial site or an industrial plot. The rate for the Industrial Plot will be 20% lesser than the rate determined for the general public at the time of first floatation.

iii) The commercial/ industrial sites would be reserved and allotted in addition to the residential plots for the land-oustees in these categories. The affected landowner would be required to submit his application in the prescribed Application Form-6.

SOCIO-ECONOMIC IMPACT ASSESSMENT REPORT

OF

INDUSTRIAL MODEL TOWNSHIP AT KHARKHODA

HSIIDC, SONEPAT, HARYANA

INTRODUCTION

Socio-Economic Impact Assessment (SEIA) refers to the systematic analysis of various social and economic characteristics of the human beings living in the geographical area/study area around the proposed project location. SEIAiscarried out separately but concurrently with Environment Impact Assessment (EIA).The study area consists of core and buffer area around the project site.The SEIA focuses on the likely effects of the project on social and economic well-being of the community.The impact(s) may be direct or indirect, positive or negative.

In this section of the EIA Report an attempt has been made to assess the Socio-Economic Impact of the project **'INDUSTRIAL MODEL TOWNSHIPKharkhoda'**located in villagesBarona, Pahladpur, NizampurKhurd, Gopalpur, Rampur, Kundal, Sohti, Pipli, Saidpur and Firozpur Bangar,in the district Sonepat of Haryana State.

OBJECTIVES OF SEIA

The prime objective of the current study is to assess the likely impact of the proposed project on socio-economic characteristics of people living in the study area. Further, it is to be established whether the impact would be direct or indirect. Furthermore, it is to be examined whether the said impact would be positive or negative. Lastly, it is to be comprehended if the impact is positive how long it would sustain or if it is negative how soon the same could be eased.

SCOPE OF THE STUDY

The Scope of the study is as follows:

a) To collect baseline data of the study area
b) To comprehend socio-economic status of the people living in the study area.
c) To assess the probable impact of the project on social and economic aspects in the study area.
d) To evaluate the likely impact of the project on Quality of Life of the people living in the study area.

e) To ensure sustainability of the positive impact.
f) To suggest mitigation measures and agency responsible for taking action in case of adverse impact.

METHODOLOGY

For Socio-Economic Impact Assessment of the proposed project, GRC India carries out systematic analysis of the various socio-economic characteristics, both in terms of quality and quantity. Accordingly, both qualitative and quantitative data was collected from secondary sources. The secondary data was collected from the published data/information of the Census Authority. Records of the state and district administration were also referred to.

For collection of primary data, a sample survey was conducted in the study area. In each selected habitation, a specified number of representative households were selected scientifically for collection of information from the head of the household or any responsible member of the family.

- **Census-cum Sample Survey in the Core Area**

As the likely project impact(s) will traverse a domino alley with greatest impacts in the core area which diminish progressively when moving away from the core to the buffer of the study area, a Census-cum-Sample Survey was conducted in the core area for the collection of socio-economic data. It is treated as a census survey because all the habitations located in the core area were surveyed for the collection of information. Further, in each habitation a household survey was conducted by drawing representative samples from the habitations by adopting the sample survey approach as collection of information from all the households in a habitation is time consuming and expensive.

- **Sample Survey in the Buffer Area**

In the buffer areas where the impact of the project progressively reduces with the distance from the project area, two stage sample design was adopted. The first stage units were census village(s)/towns(s) and ultimate stage units were households.

- **Sample Size**

The sample size at each level (village and household) was decided by using the formula $n = \sqrt{\{(1.96 * \sigma)/\Delta\}}$; where n = Sample size, 1.96 is the Table Value of Confidence Limit, σ = Standard Deviation and Δ = Degree of Precision.

- **Selection of FirstStage Units (Villages/Towns)**

In the study areathe sample villages were selected from the list of Census villages/towns by adopting the method of Probability Proportional to Size (PPS), the size being number of households in a given village/town.

- **Selection of Ultimate Stage Units (Households)**

The sample households were selected from the list of householdsby adopting the method of Circular Systematic Sampling. This method was adopted since the sampling frame i.e. the list of households was readily available.

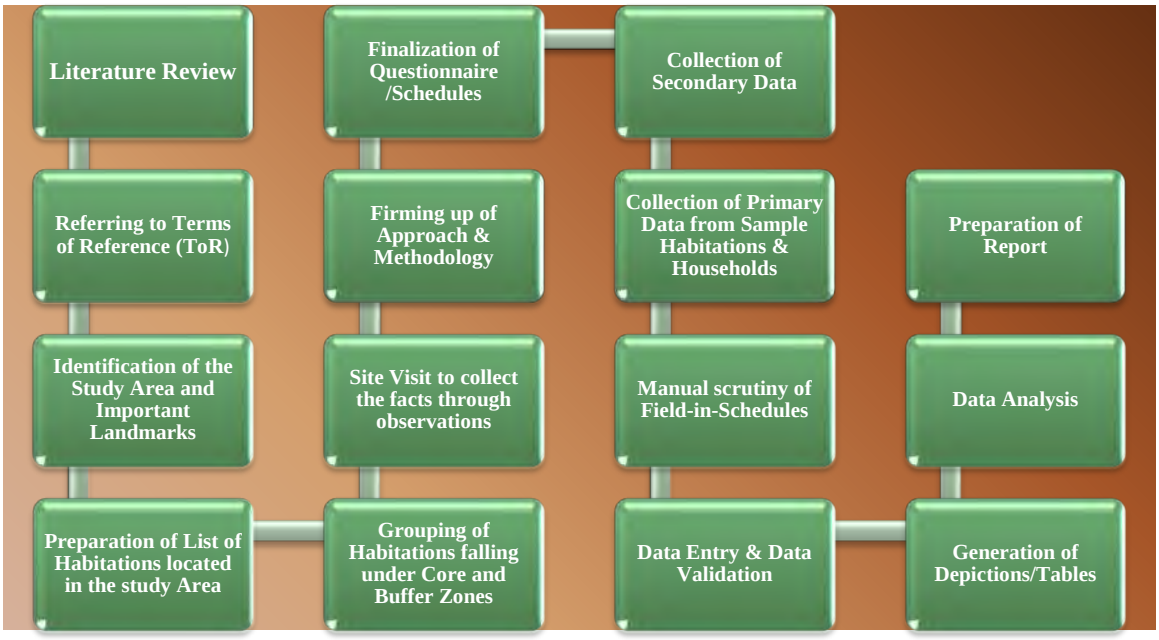
SURVEY INSTRUMENTS

The following Schedules/Questionnaires were developed for collection of primary data from the households and villages/towns:

- Schedule/format for Village/Town Particulars
- Questionnaire for Household Details and project perception

Each of these data/information instruments has segment blocks and there are both open-ended and closed-ended questions.

CRONOLOGY OF VARIOUS STEPS TO PREPARE THE SEIA REPORT IS AS UNDER:



Project Location and Study Area

The Industrial Model Township Project is located at village Kharkhoda, of district Sonepat in the state of Haryana and these are the villages which are to be affected by way of development of the area of IMT, Kharkhoda. The project covers an area of 3271.26 acres. The project site has good connectivity with the road, rail and air network. The SH-18 are adjacent to the project site whereas the Narela Railway Station is 9 km in the ENE direction of the site. The Indira Gandhi International Airport is situated at a distance of 35 km in the SSE direction of the site.

The study area for the project is spread across a 10 km radius around the project site. The habitation in this area is largely agricultural. The land use pattern of this area shows area under settlements of only 7.05% with the major segment being agriculture land with a share of 87.04%.

The segment-wise land use pattern of the study area is represented in the table given below:

LAND USE CLASS	AREA (Ha)	AREA (Sq. km)	AREA In Percentage %
Settlement	3396.04	33.9604	7.05
Water bodies	255.74	2.5574	0.53
Vegetation	133.94	1.3394	0.28
Forest	232.8	2.328	0.48
Open Scrub	1599.84	15.9984	3.32
Open Land	629.4	6.294	1.32
Agricultural land	41900.74	419.0074	87.02
TOTAL	**48148.5**	**481.485**	**100**

BASELINE DATA

The baseline data with respect to population and basic amenities & infrastructure available in the study area is as under:

I. Demographic Details

According to Census of India- 2011, the study area has total population of 1, 450,001 which are housed in 417,434 households. Of the total population, 53.88 per cent are males and remaining 46.12 per cent are females. The sex ratio of the study area has been worked out to 856 females per 1,000 males.

The total child population of 0-6 age group has been worked out to 188,262 which comprise around 12.08 per cent participation in the total population. The sex ratio of this age group has been worked out to 789 females per 1,000 males.

Further, the study area has Scheduled Caste population of 269,935 which comprise 18.61 per cent of the overall population of the study area. Of this, participation of male and female population is 53.53 and 46.47 per cent respectively.

In the study area, total number of literates are 4,29,007. Of the total literates, 56.9 per cent are males and remaining 43.1 per cent are females.

The overall literacy rate has been worked out to 79.1 per cent. The male literacy rate is 87.2 per cent as against women literacy rate of 69.8 per cent. This has created a gender gap of 17.4 per cent in the literacy rate.

Total number of workers in the study area is 523,179 which constitute 36.08 per cent of the total population. Of the total workers, 82.3 per cent are males and remaining 17.7 per cent are females which creates a gender gap of 64.6 per cent in work participation rate. Out of the total workers (Main & Marginal) 27.2 per cent have been reported as Cultivators, 19.4 per cent have been reported as Agricultural Labourers, 3.5 percent have been reported as HHI workers and 49.9 per cent have been reported as Other Workers.

A tabulation of the salient features of the demographic profile along with the amenities and social infrastructure of the study area is presented in the table below:

Table: Demographic Particulars/Population Details of the Study Area

S. No.	Description	Number	Percentage to Respective Total
1	**Gender wise Total Population**	**1,450,001**	**100.0**
	Male	781,299	53.88
	Female	668,702	46.12
	Sex Ratio	856	
2	**Total Population** **(0-6 age group)**	**188,262**	**100.0**
	Sex Ratio	789	
3	**Scheduled Caste Population**	**2,69,935**	**100.0**
	Male	1,44,496	53.53
	Female	125,419	46.47
4	**No. of Households**	**417,434**	
	Overall Literacy Rate	**79.1**	
	Male	87.2	
	Female	69.8	
	Gender Gap in Literacy Rate	17.4	
8	**Total Workers**	**523,179**	**100.0**
	In Rural Areas	376,188	
	In Urban Areas	146,991	
9	**Main Workers**	**27.36**	
10	**Marginal Workers**	**63.92**	

11	**Household Industrial Workers**	**3.5**
12	**Agricultural Workers**	**19.4**
13	**Cultivators**	**27.2**
15	**'Other Workers'**	**49.9**

Source: Census of India- 2011.

II. Amenities & Social Infrastructure

EDUCATION		
Educational Institutions (Including Professional Institutions)	Pre-primary School (Pvt.)	
	Primary School (Gov. & Pvt.)	
	Middle School (Gov. & Pvt.)	
	Secondary School (Gov. & Pvt.)	
	Senior Secondary School (Gov. & Pvt.)	
	Vocational Training School –ITI (Gov.)	
	Higher Education Institutions	
	Engineering Colleges (Pvt.)	
	Polytechnic College (Pvt.)	
	Management Institution (Pvt.)	
HEALTH		
Health Institutions	Primary Health Centre/ Sub-Centre	
	Maternity & Child Welfare Centre	
	Allopathic Dispensary	
	Veterinary Hospital	
	Family Welfare Centre	
	Community Health Centre	
	ASHA	
WATER		
Drinking Water Sources (Tap and Hand pump is the major source of drinking water)	Tap	Tube well
	Un-covered Well	River /Canal
	Hand pump	Tank/Pond/Lake
SANITATION		
Sewer/Drainage System	Open Pucca Drainage System (Uncovered)	
	Piped sewer system	
	Septic Tank	
	Pit latrine	
ELECTRICITY		
Types of Electricity Available	Power for Domestic Uses	

	Power for Agriculture Uses
	Power for Commercial Uses
TRANSPORT & CONNECTIVITY	
Types of Road (s) Available (SH-18 and KMP expressway are adjacent to the site)	Black Topped
	Gravel Roads
	Footpaths
	All Weather Roads
Railway	Narela Railway Station- 9 km in the E
Airport	Indira Gandhi International Airport- 35 km SE
COMMUNICATION	
Means of Communication	Radio/Transistor
	Television
	Computer/Laptop
	Telephone/Mobile
BANKING & POST	
Types of Banking Services Available	Post Office
	Commercial/Cooperative Bank
	Agricultural Credit Society

Source: Study Research

SOCIO-ECONOMIC IMPACT OF THE PROJECT

Impact on Demographic Composition

The proposed project is intended to encourage and support the creation, expansion and modernization of small scale industries through the provision of factory accommodation, common service facilities and assistance and servicing thorough all stages of establishment and operations of industrial activity in the area in an environmental friendly manner. The project is therefore envisaged to increase the working population in the study area both during the construction and operation phases with possibility of in-migration of people. This will make some changes in the demographic composition of the population in the area. The occupation structure of the working population is also projected to shift further in favor of household industry and other industrial/business establishments when the project completed. The sex ratio may also get impacted.

Employment Opportunities

The proposed project will provide employment opportunities both during the construction and operational phases. The direct and indirect employment will provide during the operation of the project at both skilled and unskilled levels to the local people on priority basis and the people will stay at the peripheral areas.

Besides, the industrial units in the industrial state will offer employment opportunities and also generate business opportunities to cater to the demand of people working in these units in the industrial estate. The local people will therefore have both employment and business opportunities. The socio-economic standard of the local people will increase due to these enhanced employment and business opportunities. This will lead to better quality of life, improvement in the living conditions and will also set a standard for future developments in the area. It is a positive impact of the project.

Impetus to Trade & Business in Construction Materials

The proposed project will give much impetus to trade and business on construction materials in the nearby market places to the project area. It is expected that trading and business will flourish on various construction materials namely coarse sand, fine sand, stone aggregate, cement, reinforcement steel, pipes, bricks, conduit pipes, PVC overhead tanks, glaze & floor tiles, hardware, stainless sinks etc. Besides, service providing businesses like office & stationery, printing & binding, transport servicing, fabrication & welding, etc. are also expected to increase.

Impact on Agriculture

The area under agriculture is expected to show a marginal decline as land that is being acquired for the project is agricultural land. However, this decline is not envisaged to reduce the agricultural income of the people in the area. Further, as the area being developed as an industrial hub it is envisaged that the increase in industry and business activities would increase income levels which would outweigh the decline in agricultural

income of the area. The short term negative impact, if any, would be outweighed in the medium and long term.

Impact on Road Development

Movement of vehicles to and from the project site is expected during the construction period. This movement is expected to further increase when the model township becomes functional. Hence, there is scope for further strengthening the road development in the area with adequate parking space so as not to disturb the traffic and allow smooth movement in and around the project area.

Impact on Law & Order

As workers to be employed in the proposed project is expected to increase both during the construction and operation phases, law & order or administrative institution may be further upgraded or strengthen close to the project site.

Impact on Health

In the operational phase, there are no chances of any major diseases due to the construction work.However, to meet any emergency few safety measures are outlined below:

a) **Safe Working Environment**: The project proponent shall ensure health and safety of all the employees at work. All efforts willbe made to provide and maintain a safe work environment and ensure that the machinery and equipment in useis safe for employees.
b) **Provision of First Aid**: In case of any accidents arising out of the proposed construction works, timely and prompt first aid treatment is, often, the most important tool. Suitable first aid arrangements shall be made at the site for rendering immediate first aid in case of any injury. The first-aiders willbewell trained in handling patients working inthe project.
c) **Regular Medical Examination:**For all workers,medical examination will be made on regular basis.

d) **Health Education:** Adequate health education & information related to the workwill be provided to the workers so that their health & safety can be ensured.

e) **Tie-up with the nearest Hospital for Medical Assistance:** To meet the medical needs of the workers in case of accidents, tie-up with nearest hospitalswill be made. Efforts will be made to reserve a few beds in the said hospitalsfor the workersto meet any emergency. This will ensure timely medical aid to the affected persons.

f) **Supply of Mask &Gloves:**The workers exposed to dust will be provided with dust masks to prevent them from getting affected by respiratory diseases.Gloves will be provided to workers working with hand tools to ensure safety of their hands.

g) **Special Telephone Number:** A special telephone number will be made available to the workers in case of emergency so that they can dial the samein case of any accident.

CORPORATE SOCIAL RESPONSIBILITY:

As per the section 135 of the Companies Act, 2013 Corporate Social Responsibility (CSR) is mandatory part of any development project.

In compliance to the CSR Policy as a responsible corporate citizen and the HSIIDC CSR Policy (refer to the website of HSIIDC (www.hsiidc.org.in), a budgetary amount (2% of the project cost) i.e., approx Rs. 8,000 Lakhs has been allocated to spent in the coming five years of the project in support of the below mentioned CSR activitiesin order to achieve the objective to improve the quality of life and socio-economic scenario with special attention to the people residing in the study area:

1. **Village Development-**
   - Health Checkups and Medical Camps once in every quarter of a year in the villages around the project site.
   - Sanitation & Hygiene Awareness Camps once in every quarter of a yearin the villagesaround the project site.
   - Providing financial assistance to building sanitation facilities in the villages around the project site.

- Providing Street lightening facility.
- Development of Community Centre equipped with library &internet connected computer facilities.

2. Skill Development& Training -

- Providing scholarship/financial assistance to underprivileged children and meritorious students for their higher, technical &management education.
- Providing training to the students and unemployed youths in technical institutions like ITIs etc. for up gradation of computer based technical skills.
- Providing training to the women for self help to be self dependent and to improve their skill & economic condition.
- Setting up Computer Literacy Centers.

3. Sports, Art, Culture&Other Developmental Activities-

- Providing financial aid for distributing sports goods and musical instruments to the local clubs located in the study area.
- Organizing sports events & tournaments and providing financial aid to the eligible candidates for coaching and proper training.
- Providing uniforms and books to the school children.

The budgetary allocation of the said amount & activities in the coming five year span is indexed below:

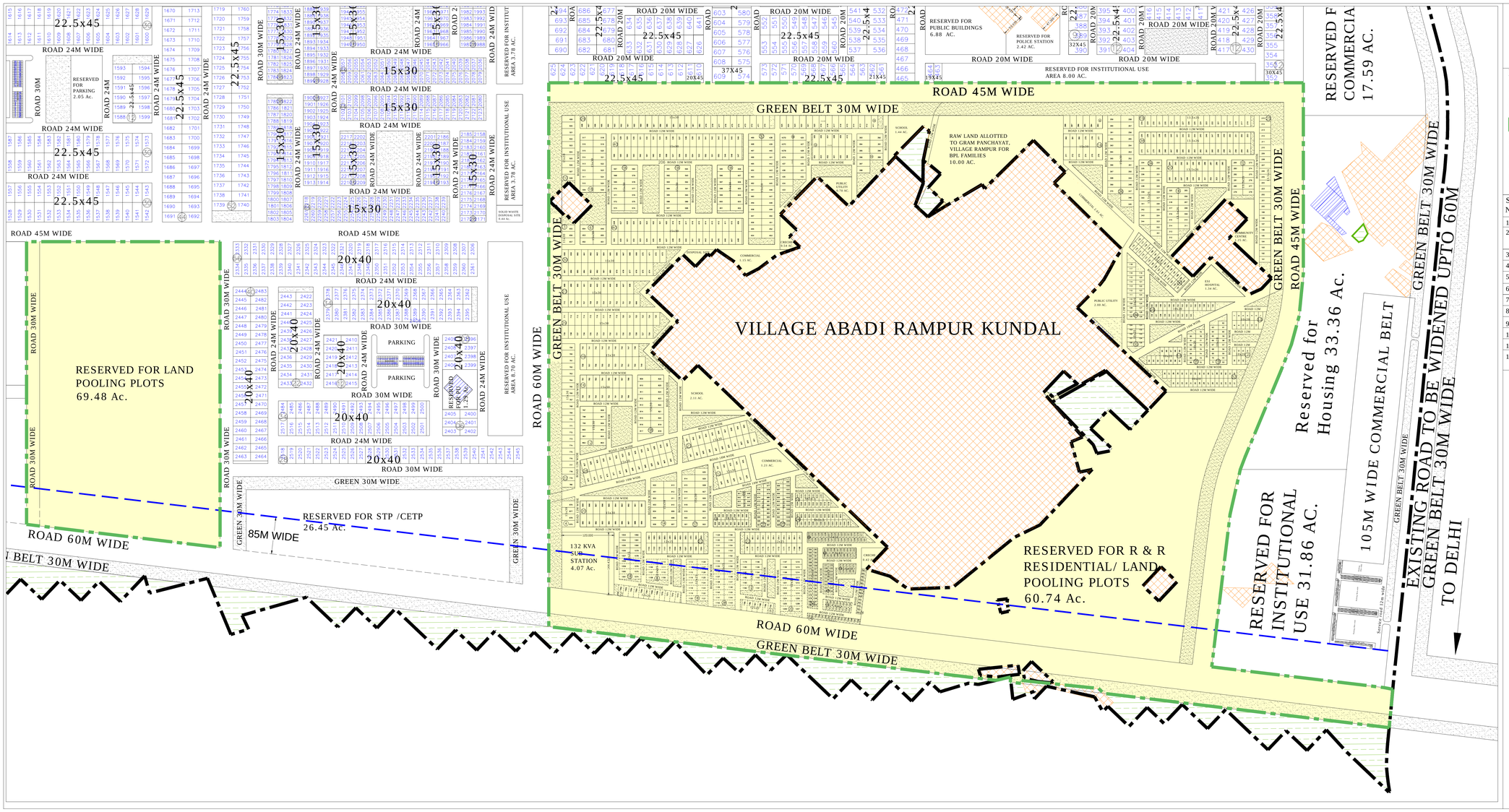
S. No.	Activities	Budgetary Allocation of the Fund (Rs. Lakhs)					
		Year-I	Year-II	Year-III	Year-IV	Year-V	Total
1.	Village Development	1000	1000	1000	1000	1000	**5000**
2.	Skill Development & Training	400	400	400	400	400	**2000**
3.	Sports, Art, Culture & Others	200	200	200	200	200	**1000**
Total		**1600**	**1600**	**1600**	**1600**	**1600**	**8000**

CONCLUSION

The socio-economic standard of people living in the area will improve due to employment opportunities created by the project. This will lead to better quality of life and will also set a standard for future development in the study area. Due to the project, the infrastructure of the area will improve including development of roads, parks, play grounds etc. This will give a boost in the quality of life of people of the area. However, there is still scope of improving health and educational facilities besides improving the skill sets of the people in the area. It is expected that same will improve with the project & associated business activities becoming operational and the CSR activities planned by HSIIDC in the area.

The overall impact of the project is expected to be positive for the habitants of the area and the persons associated with the project.

*****



HSIIDC
IMT KHARKHAUDA
PART PLAN

LEGEND

- OPEN SPACES/ GREEN BELT/ PARKING
- ACQUISITION BOUNDARY OF IMT KHARKHAUDA SCHEME BOUNDARY (452.69 ACRES)
- TO BE PLANNED LATER
- RELEASED/ UNACQUIRED LAND
- LAND RELEASED U/S 48

SR. NO.	AREA STATEMENT	IN ACRES
1	TOTAL AREA	452.69
2	RAW LAND ALLOTTED TO GRAM PANCHAYAT, VILLAGE RAMPUR FOR BPL FAMILIES	10.00
3	AREA UNDER COMMERCIAL POCKETS	4.97
4	AREA UNDER R&R PLOTS	109.29
5	AREA UNDER LAND POOLING PLOTS	69.48
6	AREA UNDER PUBLIC UTILITY	2.70
7	AREA UNDER 132KVA SUB STATION	4.07
8	AREA RESERVED FOR SCHOOL	3.55
9	AREA RESERVED FOR COMMUNITY CENTRE	1.25
10	AREA UNDER CRECHE	0.96
11	AREA UNDER ES1 HOSPITAL	2.00
12	AREA UNDER GREEN BELTS, OPEN SPACES & ROADS ETC.	244.42

DETAIL OF R&R RESIDENTIAL PLOTS

S.no.	SIZE (METERS)	AREA (IN SQM.)	NO'S
1	15x30	450	600
2	13.5x26	350	154
3	12x25	300	164
4	10x20	200	188
5	9x16.5	150	112
6	7.5x12	90	165
	TOTAL		1383

Annexure - 'V'

REHABILITATION & RESETTLEMENT (R & R) PLAN

Table 10: Area Details

S. No.	Area Statement for General Category	In Acre
1	Total Site Area	3306.32
(A)	Area released	89.13
(B)	Balance Land	3217.19
(a)	Raw Land allotted to Gram Panchayat Village Rampur for BPL Families	10.0
(b)	Area Reserved for Industrial Plots	1243.28
(c)	Area Reserved for Commercial Use	171.51
(d)	Area Reserved for Public Utilities/Buildings	168.47
(e)	Area Reserved for Institutional Use	147.61
(f)	Area Reserved for R&R Plots	109.29
(g)	Area Reserved for R&R Pockets & Land Pooling Plots/Housing	163.58
(h)	**Area Reserved for Green Belts, Open Spaces, Roads, Orbital Rail Corridor & Parking etc.**	**1203.45**

- The area of 452.69 Acres has been reserved for R&R measures of total land out of 3217.19 Acre. Details are given in the table below:-

Sr. No	Area Statement	In Acres
1	**Total Area**	**452.69**
2	Raw Land allotted to Gram Panchayat Village Rampur for BPL Families	**10.00**
3	Area under Commercial Pockets	**4.97**
4	Area under R&R Plots	**109.29**
5	Area under land Pooling Plots	**69.48**
6	Area under Public Utility	**2.70**
7	Area under 132 KV Sub-Station	**4.07**
8	Area reserved for school	**3.55**
9	Area reserved for Community Centre	**1.25**
10	Area under Creche	**0.96**
11	Area under ESI Hospital	**2.00**
12	Area under Green Belts, Open Spaces & Road Etc.	**244.42**

The detail of the plots carved out for allotment under R&R measures is as under:-

Plot Area Size as per layout plan

Sr. No.	Size (Meters)	Area (In SQM.)	No's
1.	**15 X 30**	**450**	**600**
2.	**13.5 X 26**	**350**	**154**
3.	**12 X 25**	**300**	**164**
4.	**10 X 20**	**200**	**188**
5.	**9 X 16.5**	**150**	**112**
6.	**7.5 X 12**	**90**	**165**
TOTAL			**1383**

Govt., of Haryana has formulated a policy for rehabilitation and resettlement of land owners – land acquisition oustees. The silent features of the R & R policy and plan is as under:-

I. Annuity:

i) The land owners will be paid annuity for 33 years over and above the usual land compensation. The amount of annuity will be Rs. 21,000/- per acre per annum.

ii) Annuity of Rs. 21,000/- will be increased by a fixed sum of Rs. 750/- every year. The detailed of the annuity paid to the ex-land owners as per R&R policy is as under:-

Detail of the Annuity Disbursed to the Ex-land owners-IMT Kharkhoda.

Sr. No.	Name of Village	Total No. annuitants	Annuity amount already disbursed as per R&R policy (Rs. In Lacs)							Remarks
			2013	2014	2015	2016	2017	2018	2019	
1	Pahladpur	223	758435	968670	1002295	1323377	1097133	1234807	1211430	
2	Barona	329	834621	1065975	1102978	494891	1161760	1625731	1518999	
3	Nizampur Khurd	596	2109175	2757693	2853483	3912388	4187232	4862225	5246538	
4	Gopalpur	873	6632260	8821081	9127631	8526069	7861572	10408243	9600792	
5	Rampur	1608	11894944	14986235	15746506	13521863	16244723	16954976	18326688	
6	Kundal	852	9228337	12578166	13015571	11295050	12197359	16683307	18570096	
7	Sohati	977	6276617	8524780	8821200	7821207	9359297	9634462	10429341	
8	Pipli	224	1233838	1669867	1727926	1699799	1832933	1873968	2140037	
9	Saidpur	251	222050	300520	310969	946175	1094305	1015592	1332151	

10	Firozpur Banger	22	44135	59732	61808	61433	61443	68015	70094	
	Total	5955	39234412	51732719	53770367	49602252	55097757	64361326	68446166	

Note:- 513 Nos. of Annuitant opted one time payment/Commuted amount comes out Rs.34497759/- which has already been disbursed to the ex-landowners. .

2. Allotment of residential plots in cases where a self-occupied residential house is acquired for unavoidable reasons:-

No built up residential house/structure has been acquired.

3. Allotment of 'oustee-category' residential plots in cases of land acquisition for development of infrastructure HUDA, HSIIDC, and the HSAMB.

The detail plan of R&R plots to be allotted of oustee-category residential plots is as under:-

Sr. No.	Size of Plot	Rampur	Kundal	Saidpur	Barona	Sohati	Pipli	Gopalpur	Pahladpur	Nizampur Khurd	Firozpur Banger	Grand Total
1	90	23	5	9	5	12	4	15	0	30	0	103
2	150	14	7	13	8	10	2	23	1	36	0	114
3	200	51	30	6	3	52	6	19	8	41	0	216
4	300	60	20	5	2	46	2	20	2	15	0	172
5	350	30	28	0	4	55	0	14	1	20	0	152
6	450	186	155	0	0	103	9	73	4	43	0	573
Total		364	245	33	22	278	23	164	16	185	0	1330

4. Allotment of Commercial/ Industrial Sites:

The detail of the Industrial sites and Commercial sites are to be allotted as per R&R policy is as under.

a). Industrial Sites.

Sr. No.	Size of Plot	Rampur	Kundal	Saidpur	Barona	Sohati	Pipli	Gopalpur	Pahladpur	Nizampur Khurd	Firozpur Banger	Grand Total
1	450	26	32	3	0	3	7	5	3	7	0	86
Total		26	32	3	0	3	7	5	3	7	0	86

b). Commercial Sites.

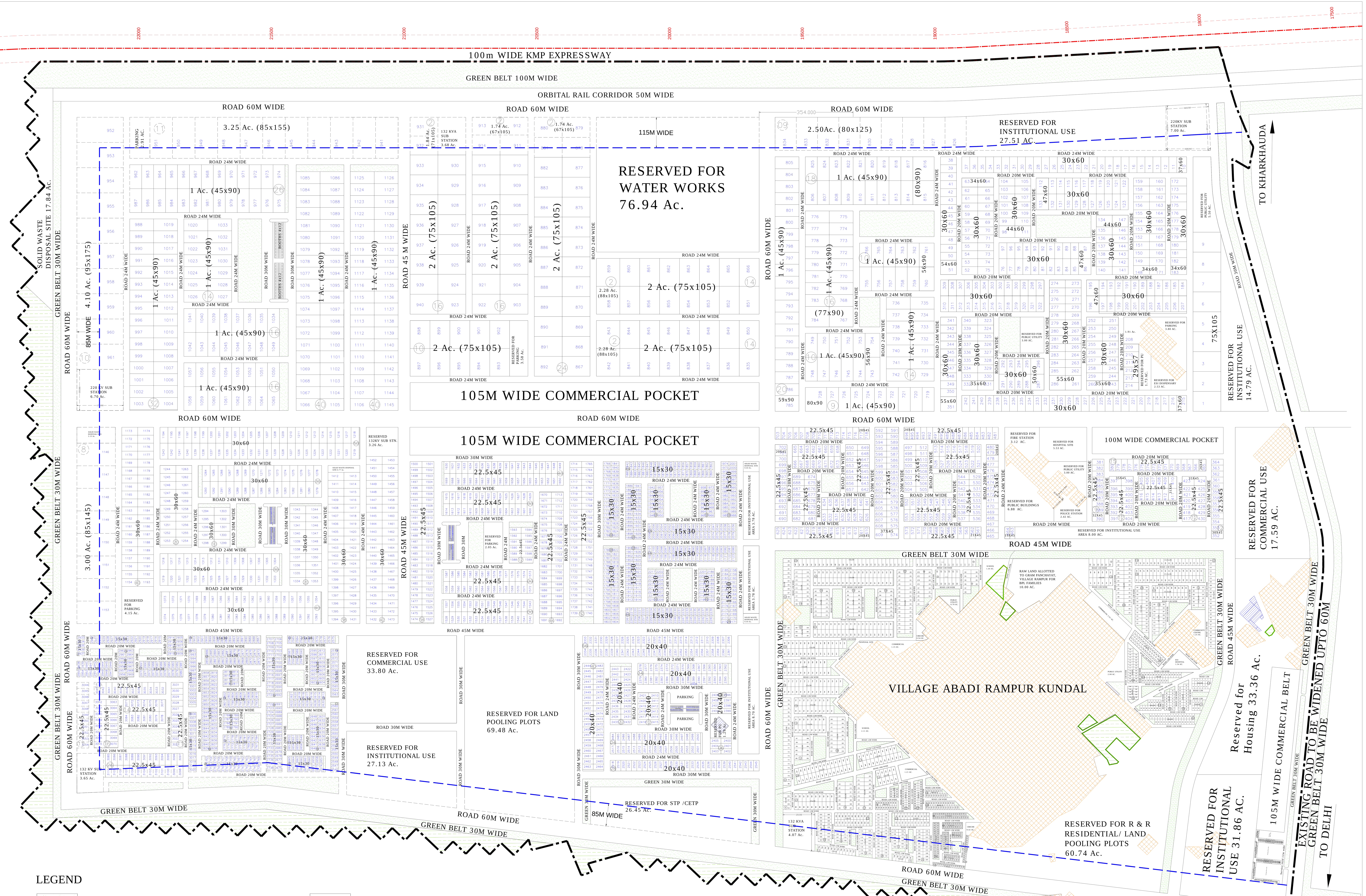
Sr. No.	Size of Plot	Rampur	Kundal	Saidpur	Barona	Sohati	Pipli	Gopalpur	Pahladpur	Nizampur Khurd	Firozpur Banger	Grand Total
1	12	20	42	0	0	23	0	0	2	7	0	94
Total		20	42	0	0	23	0	0	2	7	0	94

6. The detail of industrial plots to be allotted as per Land Pooling Scheme of Govt. of Haryana notified vide notification dated 14th August-2012 is as under:-

Sr. No.	Size of Plot	Rampur	Kundal	Saidpur	Barona	Sohati	Pipli	Gopalpur	Pahladpur	Nizampur Khurd	Firozpur Banger	Grand Total
1	450	53	46	8	0	15	9	33	0	0	0	164
2	800	6	16	1	0	14	3	16	0	1	0	57
3	1012.50	12	20	0	0	8	5	14	0	2	0	61
4	1800	1	2	0	0	2	0	1	0	0	0	6
5	4050	0	1	1	0	0	0	0	0	0	0	2
Total		72	85	10	0	39	17	64	0	3	0	290

HSIIDC

REVISED LAYOUT PLAN-V OF IMT KHARKHAUDA



LEGEND

- OPEN SPACES/ GREEN BELT/ PARKING
- RELEASED/ UNACQUIRED LAND
- LAND RELEASED IN-COMPLIANCE OF HON'BLE COURT ORDERS
- ACQUISITION BOUNDARY
- TO BE PLANNED LATER
- LAND RELEASED U/S 48

NOTES :-

- THIS DRAWING SUPERCEDES THE PREVIOUS APPROVED BEARING DRG NO.HSIIDC/IPD/1201, DATED:25.08.2018.
- R&R PLOT NO. 105 & 130 MEASURING SIZE 10MX20M HAVE BEEN OMITTED.
- INDUSTRIAL PLOT NOS. 431-462, 2002-2035, 2124-2157 AND 2265-2305 HAVE BEEN OMITTED AND INSTITUTIONAL SITES HAVE BEEN CARVED IN PLACE OF THESE PLOTS.
- ALL THE CLUSTERS HAVE BEEN REMOVED.
- CONSIDERING THE REQUEST OF GRAM PANCHAYAT, RAMPUR, LOCATION OF 10 ACRE ALLOTTED RAW LAND HAS BEEN CHANGED.

LEGEND

- UTILIZATION RESERVED TILL AMENDMENTS IN DDP-KHARKHAUDA

PURPOSE:-

- LAYOUT PLAN HAS BEEN REVISED AFTER SEEKING INPUTS OF INDUSTRIAL AREA DIVISION FOR SEEKING ENVIRONMENTAL CLEARANCE.

SR. NO.	AREA STATEMENT FOR GENERAL CATEGORY	IN ACRES
1	TOTAL AREA	3306.32
2	AREA RELEASED	89.13
3	BALANCE LAND	3217.19
4	RAW LAND ALLOTTED TO GRAM PANCHAYAT VILLAGE RAMPUR FOR BPL FAMILIES	10.00
5	AREA RESERVED FOR INDUSTRIAL PLOTS	1243.28
6	AREA RESERVED FOR COMMERCIAL USE	171.51
7	AREA RESERVED FOR PUBLIC UTILITIES/BUILDINGS	168.47
8	AREA RESERVED FOR INSTITUTIONAL USE	147.61
9	AREA RESERVED FOR R&R PLOTS	109.29
10	AREA RESERVED FOR R&R POCKETS & LAND POOLING PLOTS/HOUSING	163.58
11	NET PLANNED AREA	2013.74
12	AREA RESERVED FOR GREEN BELTS, OPEN SPACES, ROADS, ORBITAL RAIL CORRIDOR & PARKING ETC.	1203.45

DETAIL OF R&R PLOTS

S.no.	SIZE (METERS)	AREA (IN SQM.)	NO'S
1	15x30	450	600
2	13.5x26	350	154
3	12x25	300	164
4	10x20	200	188
5	9x16.5	150	112
6	7.5x12	90	165
		TOTAL	1383

DETAIL OF GENERAL INDUSTRIAL PLOTS

S.no.	AREA (IN ACRES)	SIZE (METERS)	PLOT NO'S
1	4.10	95 x 175	10
2	3.25	85 x 155	11
3	3.00	85 x 145	08
4	2.50	80 x 125	09
5	2.28	88 x 105	04
6	2.00	75 x 105	105
7	1.91	--	01
8	1.84	71 x 105	02
9	1.78	80 x 90	03
10	1.74	67 x 105	04
11	1.71	77 x 90	02
12	1.31	59 x 90	01
13	1.24	56 x 90	04
14	1.00	45 x 90	281
15	0.80	55 x 60 54 x 60	03
16	0.74	50 x 60	03
17	0.70	47 x 60	06
18	0.65	44 x 60	04
19	0.55	37 x 60	02
20	0.51	35 x 60 34 x 60	09
21	0.44	30 x 60	628
22	0.41	29 x 57 37 x 45	08
23	0.34	32 x 45 31 x 45 30 x 45	08
24	0.29	26 x 45	01
25	0.25	22.5 x 45	693
26	0.22	21 x 45 20 x 45 19 x 45	13
27	0.20	20 x 40	240
28	0.11	15x30	902
		TOTAL	2965

DRG. NO. HSIIDC/IPD/ 1307 , DATED:19.03.2020

DRAWN BY:- MANOJ KUMAR (-SD-)

A.T.P.:- SHIVANI (-SD-)

D.T.P.:- RAVISH JANI (-SD-)

C.T.P.:- GURMEET KAUR (-SD-)

DIRECTOR CONTROLLED AREA CUM M.D. HSIIDC:- ANURAG AGARWAL (-SD-)

Annexure –VII

TYPES OF INDUSTRIES PROPOSED IN INDUSTRIAL MODEL TOWNSHIP KHARKHODA BY HSIIDC

S. No.	Industries Proposed at ToR Stage	The type of industries, on the basis of which ToR was issued for project, has been slightly modified. We are now, proposing lesser polluting industries.
1.	• Food & Beverage, • Metal Products, • General Metal Textiles, • Chemical & Chemical Products, Automobile, • Rubber & Plastics Products, • Non-Metallic Materials, • Machinery & Equipment,	• CETP (Category B as per EIA Notification, 2006), • Food Industry, • Printing & Packaging Industries, • Textile and Garments Industry • Automobiles manufacturing (Integrated facilities) • Plastic Industry • Electrical & Electronics Industry • IT & ITES, • Wholesale Market Complex • Footwear Industry • General Engineering Industry • Commercial, Group Housing for Industrial labours/ workers, Institutional & Hospital • Building (Category B as per EIA Notification, 2006)

File Tracking
No. 781-82 /HS/DC Dated 22/6

To

The Superintending Engineer,
Yamuna Water Services Circle,
3-Sham Nath Marg, Delhi – 54

Subject:- Water requirement for industrial Model Township Kharkhoda.

Reference:- Your office letter No. 1438/1W Dated 27.04.2016.

In this regard, it is intimated that as per capacity statement of NCR Water Supply Channel the discharge of industries at Kharkhoda is 27Cs. and at Bahadurgarh 11Cs. will be taken from existing GWS Channel and compensated in NCR Channel. The copy of the capacity statement project estimate of NCR Channel is enclosed herewith for further necessary action please.

DA/Copy of Project
Executive Engineer,
Delhi Water Services Division,
3-Sham Nath Marg, Delhi – 110054

CC:- Chief Engineer/YWS(S) I&WR Deptt. Haryana, Delhi for information and necessary action w.r.t. his No. 1195/[illegible]-W Dated 20.04.2016 please.

HARYANA IRRIGATION DEPARTMENT
Construction Circle, Gurgaon
RE-REVISED CAPACITY STATEMENT FOR CONSTRUCTING PROPOSED NCR WATER SUPPLY CHANNEL FROM KM 0 TO 71.166 OFFTAKING FROM RD 223505-R DELHI BRANCH

	Reach in KM	Off-take point	Discharge in Cs.	Discharge in the reach in Cs	Length in Ft.	WP= R x2.67	Wetted area	Value of 'K'	Absorption losses	Total discharge
1	2		4	5	6		8	9	10	11
1	KM 0 to 30.200		--	785.31	99081	74.82	7413240	2 Cs per Million sft	14.83	800.14 Say 800.00 Cs
2	KM 30.200 to 35.500	i) KM 32.095 Public Health = 7.81 Cs. ii) KM 35.500 Sampla W/Supply = 40.00 Cs. Total = 47.81 Cs.	47.81	734.90 47.81 782.71	17388	74.70	1298884	-do-	2.60	785.31 Cs
3	KM 35.500 to 56.700	i)KM 56.700 Badli W.S.= 40.00 Cs. ii)KM 56.700 Reliance = 135.00 Cs. Total = 175.00 Cs.	175.00 Cs.	549.90 175.00 724.90	69554	71.89	5000237	-do-	10.00	734.90 Cs
4	KM 56.700 to 71.166	The detail of the discharges calculated as per the demand of different beneficiaries Deptts. at KM 71.166 i) KM 71.166 HUDA Gurgaon at Budhera = 275.00 Cs. ii) KM 71.166 Rural Area Public Health = 34.26 Cs. iii) Orient Craft & others through HSIIDC = 20.00 Cs. iv) DLF Universal = 108.00 Cs. v) Industries at Manesar = 54.00 Cs. vi) Discharge of industries at Kharkhaukda i.e. 27 Cs. & at Bahadurgarh 11 Cs. will be taken from existing GWS channel and compensated in NCR Channel. = 38 Cs. vii) Theft & Other = 11.73 Cs. Total = 543.99 Cs.	543.99 Cs.	543.99	47461	62.27	2955396	-do-	5.91	549.90 Cs.

Approved

Chief Engineer
Haryana Irrigation Department
PANCHKULA.

Executive Engineer
Construction Division
Canal Colony, Gurgaon

Superintending Engineer
Gurgaon Circle
Canal Colony, Gurgaon

o/c HSIIDC:IA:K:1769-70
Dated - 28-05-2009

The Chief Engineer
Yamuna Water Services (South)
3, Sham Nath Marg
Civil Line, New Delhi.

Sub: - Permission for drawl of 27 Cusec Raw water for HSIIDC, I.E., Kharkhoda from Gurugram Water Supply Channel.

Dear Sir,

Total water demand of 27 cusec had been assessed for Industrial Township of Kharkhoda and finalized as per the decision taken in the meeting held on 19.07.2006 under the Chairmanship of Financial Commissioner & Principal Secretary to Govt. of Haryana, Irrigation, regarding augmentation of canal based water supply scheme to Gurugram. Accordingly, the capacity of 800 cusec of WJC water supply channel was finalized by Irrigation Department Haryana on the basis of the demands projected by the beneficiary department/organization i.e. HUDA/HSVP, HSIIDC & Public Health Department. The capacity of 800 cusec had total share of 92 cusec water for HSIIDC having 54 cusec for IMT-Manesar, 11 cusec of I.E., Bhadurgarh and 27 cusec for Industrial Estate, Kharkhoda. Subsequently, the demand of HSIIDC had been reduced to 54 cusec from 92 cusec and balance 38 cusec share had been allotted to HUDA/HSVP in lieu of 27 cusec & 11 cusec to be supplied to HSIIDC from GWS channel for industries at Kharkhoda and Bhadurgarh respectively. The copy of meeting notice no. 1770-73 dated 14.06.2011 along with agenda for meeting held on 23.06.2011 under the chairmanship of FC, Irrigation Department in this regard is annexed as Annexure-A1 for ready reference.

Therefore, keeping in view the above position, it is requested that the permission may be granted for drawl of 27 cusec of raw water at R.D. 12.740 KM of Gurugram water supply channel for HSIIDC, IMT-Kharkhoda. Further, it is submitted our request to construct a channel of 27 cusec above Sohti Minor at Kharkhoda from GWS to HSIIDC, IMT-Kharkhoda, at deposit work basis by Irrigation Department may also be considered.

Thanking You.

Yours faithfully,
For Hr. State Ind. Infra. Dev. Corporation Ltd

Asstt. Gen. Manager (IA),
Indl. Estate, Kundli

C.C. to: -

1. The HOD (IA)-I/HSIIDC/C-13-14/Sec-6/Panchkula - for kind information & necessary action please.

73 /Const. Dated 14/6/2011

Chief Engineer/Const.
Irrigation Department Haryana,
Sinchai Bhawan, Sector-5
Panchkula.

1. The Engineer-in-Chief,
Public Health Engineering Department, Haryana
Sector-4, Panchkula
2 Sh. H.R. Raheja
Chief Engineer
HSIIDC, Sector-6,
Panchkula.
Sh. V.K. Gupta,
Chief Engineer
HUDA Sector-6,
Panchkula.
Chief Engineer,
YWS South, Delhi.

Construction and distribution of supplies of NCR W/S Channel and GWS Channel — Issues relating to HUDA, HSIIDC, PHE Department.

It is intimated that a meeting is scheduled to be held under the chairmanship of Engineer-in-Chief, Irrigation Department Haryana, Panchkula on 15.6.2011 at 3.30 P.M in Committee Room Ist Floor, Sinchai Bhawan, Panchkula to discuss various issues relating to the NCR Water Supply Channel and GWS Channel. The agenda of the meeting is also enclosed herewith.

It is therefore requested to make it convenient to attend the meeting on the above mentioned schedule.

Encl: Agenda

Executive Engineer
For Chief Engineer/Const. Irrig. Deptt.
Haryana, Panchkula.

Endstt. No. /Const. Dated: 2011

Copy of above is forwarded to the Superintending Engineer, Const. Circle for reason for attending the meeting alongwith all the relevant information/record relating to the issues to be discussed.

Executive Engineer
For Chief Engineer/Const. Irrig. Deptt.
Haryana, Panchkula.

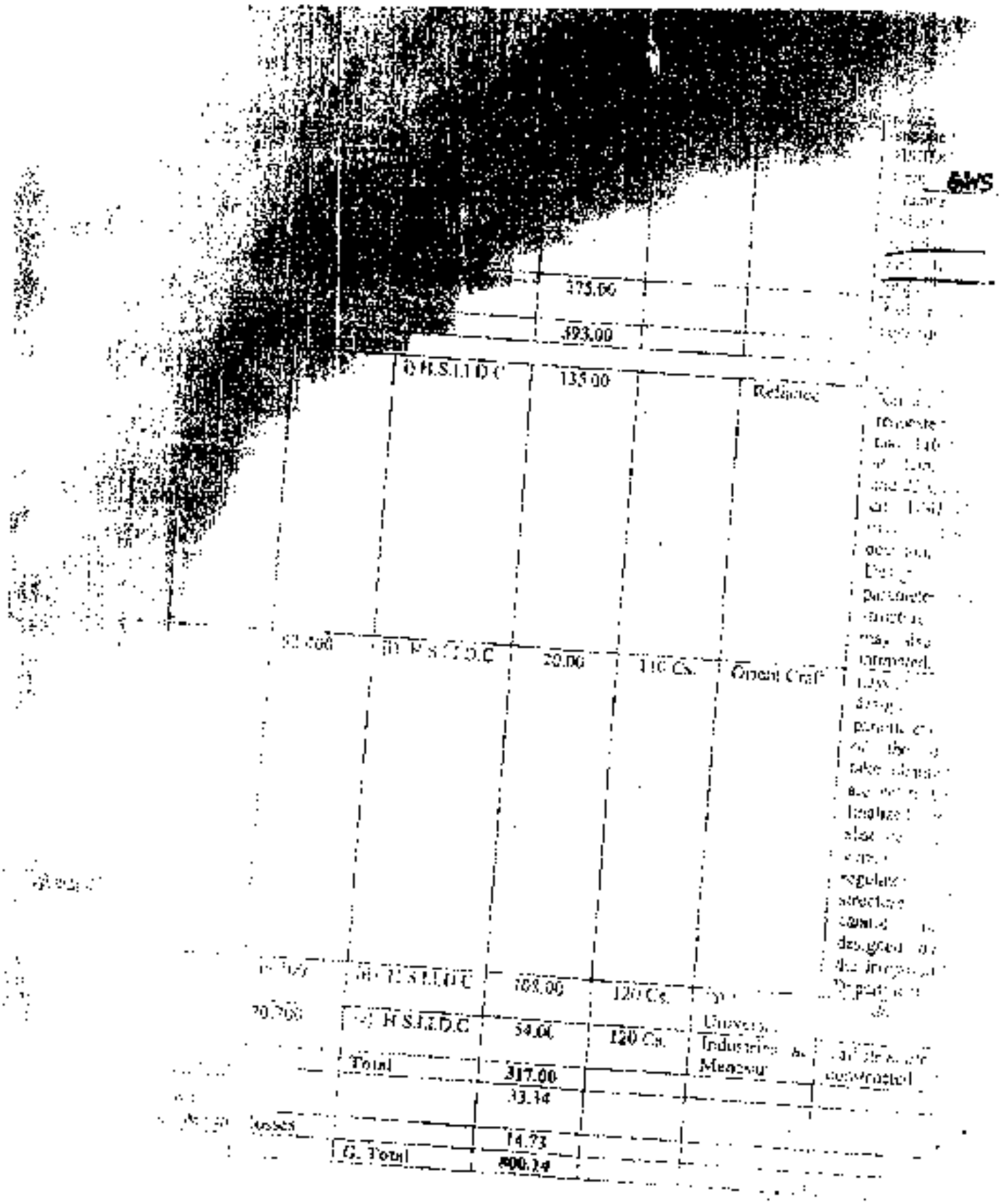
PS to Engineer-in-Chief, Irrigation Department Haryana Sinchai Bhawan. For this is for kind information of Engineer-in-Chief.
Registrar for making the arrangement of meeting & refreshment etc

[illegible] W/S Chan[illegible]

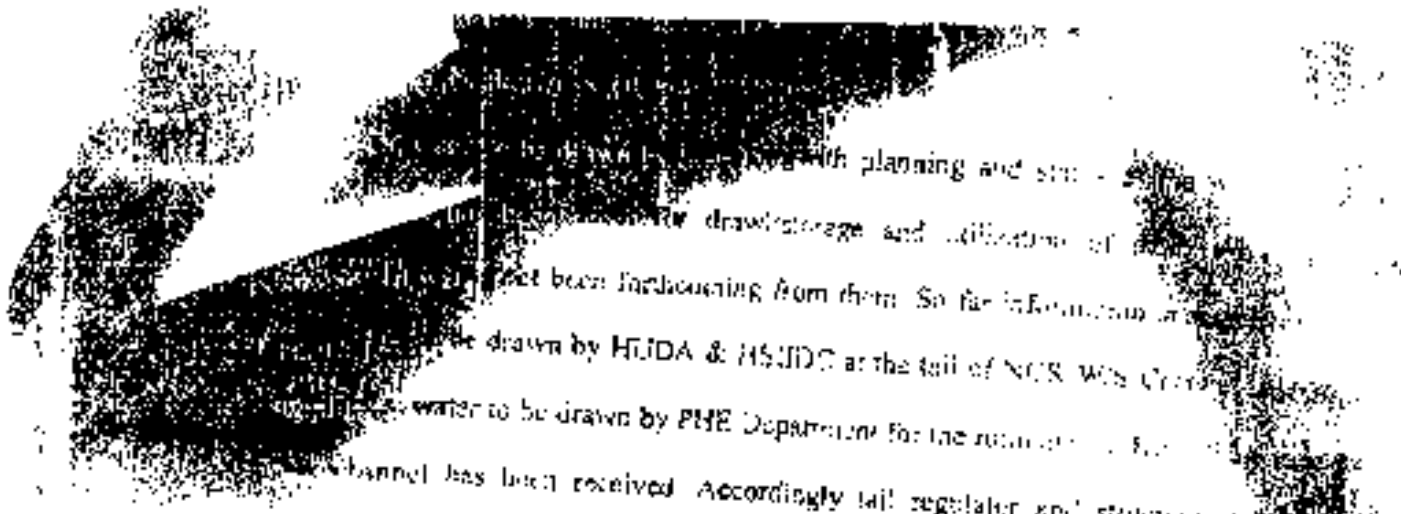
[illegible] of NCR W/S Channel is complete & the [illegible] during June, 2011. This channel is being constructed [illegible] with provision to enhance the same to 800 Cs. as and when demand develops [illegible] the decision taken by the Hon'ble Chief Minister, Haryana in the meeting [illegible] 09-2006. The capacity of 800 Cs. of the channel was finalized by Irrigation Department Haryana on the basis of the demands projected by the beneficiary departments/[illegible] HUDA, HSIIDC & Public Health Engineering Department. The approved [illegible] includes the following shares of HUDA, HSIIDC and PHE Department

Sr No.	Off-take RD	Revised RD	Beneficiary department	Discharge (In Cs)	Revised Discharge	Town	
Share of Public Health Engineer Department							
1	52.995	Not yet confirmed	i) Public Health	07.81		Bahadurga[illegible]	[illegible]
2	70.700	69.125	ii) Public Health	34.26		Budhera (Rural area)	[illegible]
			Total	**42.07**			
Share of HUDA Department							
3	35.500	34.185	i) HUDA	40.00		Sonipat	[illegible]
4	56.[illegible]	Layout of Badli not yet finalized	ii) HUDA	40.00		Badli	[illegible]
			iii) HUDA	38.00		Kundli [illegible] Kharkhoda 27.00 Cs and Bega[illegible]	

11.88



Demarrages has been repeatedly requesting all the beneficiaries to supply information regarding the off take points pertaining



[illegible] with planning and [illegible]

[illegible] for drawl/storage and utilization of [illegible]

[illegible] not been forthcoming from them. So far information [illegible]

[illegible] be drawn by HUDA & HSIIDC at the tail of NCR was [illegible]

[illegible] water to be drawn by PHE Department for the [illegible]

[illegible] Channel has been received. Accordingly tail regulator and [illegible]

[illegible] delivery of water to HUDA & HSIIDC has been constructed.

Detailed information as requested in respect of the remaining [illegible] supplied by HSIIDC, HUDA and PHE Department which is required [illegible] Department for taking up design & construction of the regulator [illegible] of channel.

Item No. 2:- Construction of works for storage and utilization of water by HSIIDC & PHE Department and information regarding their year wise requirement.

No significant steps have so far been taken by any beneficiary department for construction of the works required for the works required [illegible] share of water except HUDA who have already acquired land at the tail of [illegible] recently taken up construction of some storage works there. No [illegible] information regarding construction of their storage works is also [illegible] by any Departments/organizations despite repeated requests made by [illegible] Department.

Item No. 3: Year-wise requirement of supplies by various [illegible]

As NCR Channel is to be run with 600 Cs discharge [illegible] of its allied department will be less in initial developing [illegible] requirement of water on the channel at various points against [illegible] related to the capacity of the channel based of the [illegible] and necessary planning for making the [illegible]

is commissioning can be done by the Irrigation Department according to redistributing the limited available water resources of the depart-

Item No. 4:- Supplies through GWS Channel.

Some supplies are being taken by Public Health Engineering Department, HSPDC from the various points of GWS Channels. Detail of authorized supply locations may be supplied and these supplies may be taken into consideration while the share from NCR Channel.

DETAILS OF CONSTRUCTION MATERIALS

List of building material:

1. Coarse sand
2. Fine sand
3. Stone aggregate
4. Stone for masonry work
5. Cement
6. Reinforcement steel
7. Pipe scaffolding (cup lock system)
8. CLC fly ash blocks
9. Crazy (white marble) in grey cement
10. P.V.C. conduit
11. MDS, MCBs
12. PVC overhead water tanks
13. 2 1/2'' thick red colour paver tiles
14. PPR (ISI marked)
15. PVC waste water lines
16. S.W. sewer line up to main sewer
17. PVC rain water down take
18. Stainless steel sink in kitchen
19. Joinery hardware-ISI marked

U-VALUES OF MATERIAL TO BE USED FOR CONSTRUCTION

Type of Construction	U values(in W/m2 deg C)
WALLS:	
Brick:	
Plastered both sides - 114 mm	3.24
Solid , Unplastered - 228 mm	2.67
Plastered both sides - 228 mm	2.44
Concrete,ordinary,Dense:	
- 152 mm	3.59
- 203 mm	3.18
Concrete block, cavity,250 mm (100+50+100), outside rendered,inside plastered:	
Aerated Concrete blocks	1.19
Hollow Concrete block, 228 mm,single skin,outside rendered, inside plastered:	
Aerated Concrete blocks	1.70
Roofs Pitched :	
Tiles or Slates on boarding and felt with plastar ceiling.	1.70
Roofs Flat :	
Reinforced concrete slab, 100 mm, screed 63-12 mm, 3 layers bituminous felt.	3.36
Floors :	
Concrete on ground or hardcore fill	1.13
+ Grano, Terrazzo or tile finish	1.13
+ Wood block finish	0.85
WINDOWS :	
Exposure South , Sheltered:	
Single glazing	3.97
Double glazing 6 mm space	2.67

LIST OF MACHINERY TO BE USED DURING CONSTRUCTION

i. Dumper
ii. Excavator
iii. Concrete Batching Plant
iv. Road roller
v. Concrete mixer with hopper
vi. Cranes
vii. Bulldozer
viii. RMC Plant
ix. Tower Cranes
x. Hoist
xi. Labor Lifts
xii. Pile Boring Machines
xiii. Concrete pressure pumps
xiv. Mobile transit mixer

76°57'30"E

76°57'30"E

N

Project Site

Buffer Boundary

Industrail Estate Project
At IMT Kharkhoda,Sonipat
Haryana

500 Meters
Buffer Map of the Study Area

0 50 100 200 300 400 500
Meters

76°55'0"E

77°0'0"E

28°50'0"N

Diversion Drain No.8

Thana Kalan

Kharkhauda

SH-20

Rohna

Barona

Pipli

Project Site

Lalpur

Jataula

Saidpur

Auchandi

Pahladpur

Nilothi

Qutabgarh

Ladrawan

Kulsai

HARYANA

Project Site

Buffer Boundary

Industrail Estate Project
At IMT Kharkhoda,Sonipat
Haryana

5 km
Buffer Map of Study Area

0 0.250.5 1 1.5 2 2.5 Km

76°48'0"E
76°56'0"E
77°4'0"E
28°56'0"N
28°48'0"N
28°40'0"N

HARYANA

Rohtak-Sonipat Rd

Drain No.8

Kharkhoda

Gurukul Sr. Sec School

Project Site

Gopalpur

SH-20

Jawahar Navodaya Vidhaliya

Maharishi Valmiki Hospital

Radha Krishna Mandir

Sultanpur Dabas RF

Railway Line

NH-10

Sonipat

DELHI

HARYANA

State Boundary

N

Project Site

15 km Buffer

10 km Buffer

Buffer Boundary

Industrail Estate Project
At IMT Kharkhoda,Sonipat
Haryana

Ecosensetive Map Of Study Area

0 1.252.5 5 7.5 Km

HSIIDC

REVISED LAYOUT PLAN-V OF IMT KHARKHAUDA

N

PURPOSE:-

- LAYOUT PLAN HAS BEEN REVISED AFTER SEEKING INPUTS OF INDUSTRIAL AREA DIVISION FOR SEEKING ENVIRONMENTAL CLEARANCE.

SR. NO.	AREA STATEMENT FOR GENERAL CATEGORY	IN ACRES
1	TOTAL AREA	3306.32
2	AREA RELEASED	89.13
3	BALANCE LAND	3217.19
4	RAW LAND ALLOTTED TO GRAM PANCHAYAT VILLAGE RAMPUR FOR BPL FAMILIES	10.00
5	AREA RESERVED FOR INDUSTRIAL PLOTS	1243.28
6	AREA RESERVED FOR COMMERCIAL USE	171.51
7	AREA RESERVED FOR PUBLIC UTILITIES/BUILDINGS	168.47
8	AREA RESERVED FOR INSTITUTIONAL USE	147.61
9	AREA RESERVED FOR R&R PLOTS	109.29
10	AREA RESERVED FOR R&R POCKETS & LAND POOLING PLOTS/HOUSING	163.58
11	NET PLANNED AREA	2013.74
12	AREA RESERVED FOR GREEN BELTS, OPEN SPACES, ROADS, ORBITAL RAIL CORRIDOR & PARKING ETC.	1203.45

DETAIL OF R&R PLOTS

S.no.	SIZE (METERS)	AREA (IN SQM.)	NO'S
1	15x30	450	600
2	13.5x26	350	154
3	12x25	300	164
4	10x20	200	188
5	9x16.5	150	112
6	7.5x12	90	165
TOTAL			1383

DETAIL OF GENERAL INDUSTRIAL PLOTS

S.no.	AREA (IN ACRES)	SIZE (METERS)	PLOT NO'S
1	4.10	95 x 175	10
2	3.25	85 x 155	11
3	3.00	85 x 145	08
4	2.50	80 x 125	09
5	2.28	88 x 105	04
6	2.00	75 x 105	105
7	1.91	--	01
8	1.84	71 x 105	02
9	1.78	80 x 90	03
10	1.74	67 x 105	04
11	1.71	77 x 90	02
12	1.31	59 x 90	01
13	1.24	56 x 90	04
14	1.00	45 x 90	281
15	0.80	55 x 60 54 x 60	03
16	0.74	50 x 60	03
17	0.70	47 x 60	06
18	0.65	44 x 60	04
19	0.55	37 x 60	02
20	0.51	35 x 60 34 x 60	09
21	0.44	30 x 60	628
22	0.41	29 x 57 32 x 45	08
23	0.34	32 x 45 31 x 45 30 x 45	08
24	0.29	26 x 45	01
25	0.25	22.5 x 45	693
26	0.22	21 x 45 20 x 45 19 x 45	13
27	0.20	20 x 40	240
28	0.11	15x30	902
		TOTAL	2965

DRG. NO. HSIIDC/IPD/ 1307 , DATED:19.03.2020

DRAWN BY:- MANOJ KUMAR (-SD-)

A.T.P.:- SHIVANI (-SD-)

D.T.P.:- RAVISH JANI (-SD-)

C.T.P.:- GURMEET KAUR (-SD-)

DIRECTOR CONTROLLED AREA CUM M.D. HSIIDC:- ANURAG AGARWAL (-SD-)

LEGEND

- OPEN SPACES/ GREEN BELT/ PARKING
- RELEASED/ UNACQUIRED LAND
- LAND RELEASED IN-COMPLIANCE OF HON'BLE COURT ORDERS
- ACQUISITION BOUNDARY
- TO BE PLANNED LATER
- LAND RELEASED U/S 48

NOTES :-

- THIS DRAWING SUPERCEDES THE PREVIOUS APPROVED BEARING DRG NO.HSIIDC/IPD/1201, DATED:25.08.2018.
- R&R PLOT NO. 105 & 130 MEASURING SIZE 10MX20M HAVE BEEN OMITTED.
- INDUSTRIAL PLOT NOS. 431-462, 2002-2035, 2124-2157 AND 2265-2305 HAVE BEEN OMITTED AND INSTITUTIONAL SITES HAVE BEEN CARVED IN PLACE OF THESE PLOTS.
- ALL THE CLUSTERS HAVE BEEN REMOVED.
- CONSIDERING THE REQUEST OF GRAM PANCHAYAT, RAMPUR, LOCATION OF 10 ACRE ALLOTTED RAW LAND HAS BEEN CHANGED.

LEGEND

- UTILIZATION RESERVED TILL AMENDMENTS IN DDP-KHARKHAUDA

76°50'0"E
76°55'0"E
77°0'0"E
77°5'0"E
28°55'0"N
28°50'0"N
28°45'0"N

N
W
E
S

Bhedana Drain
Drain No.-8
W.Yamuna Canal
Sisana Minor
Khanda Drain
Rohna Minor
Gurgaon Water Supply Channel
Sohti Minor
Mungashapur Drain
Lampur Distributary
Bawana Distributary
Auchandi Minor
Budhanpur Minor
Bazidpur Drain
Sultanpur Minor
Jaunti Minor
Jasaur Kheri Minor
West Juan Drain
Saruara Subminor
Pakasma Drain
Juan Drain
220m
Project Site

HARYANA

Project Site

10 km
Buffer Boundary

Contour
Distributaries
Canal
Water Bodies

Industrail Estate Project At IMT Kharkhoda,Sonipat Haryana

Drainage Map of The Study Area

0 0.5 1 2 3 4 5 Km

430

24083
05/04/19

HARYANA STATE POLLUTION CONTROL BOARD

Star Complex, Opp. General Hospital, Delhi Road, Sonipat
Ph. - 0130-2236119, E-mail ID: - hspcbrosr@gmail.com

No. HSPCB/SR/2019/ 134 Dated 05/04/2019

To

The Chairman,
Haryana State Pollution Control Board,
Panchkula.

16/4/19

Sub: Proceedings of the Public Hearing held under provisions of EIA Notification, 2006 (amended to date) for proposed M/s HSIIDC's Industrial Model Township Project, Kharkhoda, Sonipat, Haryana on dated 08.03.2019 at 11:00 am at project site.

Please refer to the subject noted above.

In this connection, it is intimated that public hearing of the above said unit was held on 08.03.2019 at 11:00 am for Environmental Clearance for proposed project for HSIIDC's Industrial Model Township Project Kharkhoda at the project site under the Chairmanship of Additional Deputy Commissioner, Sonipat. The proceedings of the public hearing have been approved by the Additional Deputy Commissioner, Sonipat and is hereby enclosed for your further necessary action please.

It is submitted for your kind information and further necessary action please.

Regional Officer 5/4
Sonipat Region

DA/1. Register of attendance of Public present during the hearing.
2. Register of attendance of officials present during the hearing.
3. Soft copy (CD) of proceedings of hearing.
4. Photographs of the hearing.
5. Approved copy in original of proceeding of hearing by Ld. ADC, Sonipat.

481

Proceeding of Public Hearing held on 8 March 2019 under Environment Impact Assesment Notification dated 14.09.2006 for Proposed Project of HSIIDC's Industrial Model Township Project, Kharkhoda, Sonipat, Haryana.

The draft proceedings of the public hearing conducted on 08.03.2019 at site of HSIIDC, Kharkhoda has been prepared which are attached herewith for information and approval please.

Regional Officer,
HSPCB, Sonepat.

ADC, Sonepat.

04.04.2019

Proceeding of Public Hearing held on 8th March, 2019 under Environment Impact Assesment Notification dated 14.09.2006 for Proposed Project of HSIIDC's Industrial Model Township Project, Kharkhoda, Sonipat, Haryana.

The Public Hearing was held at proposed IMT of HSIIDC site at Kharkhoda, Sonipat for the Industrial Model Township Project, Kharkhoda, Sonipat, Haryana on dated 08.03.2019.

OFFICERS PRESENT:

1. Sh. Jaibir Singh Arya, Additional Deputy Commissioner, Sonipat.
2. Miss. Shweta Suhag, SDM, Kharkhoda, Sonipat
3. Sh. Arun Kumar Garg, AGM (IA), HSIIDC, Kundli,Sonipat.
4. Sh. Lalit Malik, Assistant Environmental Engineer, HSPCB, Sonipat
5. Sh. Sanjiv Kumar, Assistant Environmental Engineer, HSPCB, Sonipat
6. Sh. Vikash Hooda, Junior Environmental Engineer, HSPCB, Sonipat
7. Sh. Kapil Kumar,Assistant Director ,D.I.C Sonipat
8. Sh. Robin Bathla, Manager (IA), HSIIDC, Kundli, Sonipat

The attendance sheet of Officers and Public /Villagers present during the public hearing is attached as **Annexure-A.**

Copies of the presentation in Hindi and English of Draft EIA of Proposed Project of HSIIDC's Industrial Model Township Project, Kharkhoda, Sonipat, Haryana were distributed to the Officers and Public present in the hearing.

At the onset of the public hearing, Sanjiv Kumar, AEE, HSPCB, Sonipat welcomed Sh. Jaibir Singh Arya, Additional Deputy Commissioner, Sonipat and other officers and general public in the public hearing and seek permission of the chairperson to start the process of public hearing. After due permission of the chairperson, AEE HSPCB Sonipat briefed about the process of public hearing for the project of HSIIDC's Industrial Model Township Project, Kharkhoda, Sonipat, Haryana. He told the participants about the process of hearing and provisions of EIA Notification. Then he requested the Project Proponent to explain in detail about the project.

Thereafter, the Environment Consultant on behalf of the project proponent explained in detailed about the Proposed Project of HSIIDC's Industrial Model Township, Kharkhoda, Sonipat, Haryana. They explained that the proposed project will be established in land measuring of 3219.11 Acres for HSIIDC's Industrial Model Township Project, Kharkhoda, Sonipat, Haryana. They explained about the pollution and environmental aspects of the proposed project and the measures to be taken by the Project Proponent. He also explained the contents of the environment management plan in brief prepared by them for the project and impact of the project on environment along with control measures/steps.

After the presentation, AEE, HSPCB, Sonipat asked the participate to raise objections/suggestions/issues to seek information or clarification on the proposed project and thereafter, the participates raised their objections/suggestions/doubts etc., about the proposed project one by one. The details of objections/suggestions and reply/clarification regarding apprehensive of participates was given by the consultant of proposed proponent is as under:-

1. Sh. Dharmpal R/o Village- Garhi Kundal, asked about the Air pollution such as bad odour from the footwear industries which are to be established in the proposed IMT, Kharkhoda.

   Reply: Project proponent and their consultant replied that there will be no major Air pollution problem due to proposed footwear park in IMT as all the industries that will be installed are in least polluting category and all industries will be required to obtain NOC from HSPCB before establishment and will provide proper and adequate APCM along with periodic monitoring. Preventive measures for noise, water, air pollution under the existing framework of law to be complied with and assured the minimum disturbance in present environment of area.

2. He questioned that there are such type of industries which are already operating at Village Ferzopur Banger which creates very high Air Pollution and he has doubt that they will face similar problem here.

Reply: AEE of HSPCB replied that the stringent action has been taken against the violators the HSPCB by sealing plant and machinery of 08 No. of industries. HSPCB will take action against violators as provision of Acts/ Rules.

3. Sh. Hansraj Rana R/o Firozpur Bangar member of Bhoomi Bachao Talmal Committee raised the issues about the land acquisition, and farmers are facing problems regarding delay caused in disbursement of Royalty etc., he has requested that the demands of the farmers may be considered.

   Reply: AGM of HSIIDC replied that all necessary action/steps are being taken so that royalty related issues are dealt on priority.

4. Sh. Parveen Rana R/o Village Kundal, asked about that the accident like tragedy of Bhopal Gas can happen at proposed IMT also. He also questioned that what action will be taken if such type of incident happened. He also questioned about the utilization of CSR funds.

   Reply: Project proponent replied that no such type of industries will be installed in this proposed IMT, Kharkhoda. The Project Proponent replied that the CSR funds will be utilized as per the provision in the public interest and estimate shall be prepared through BDO's by listing the works that needs to be done. The AEE of HSPCB also elaborated that all the industries will be established after taking prior NOC from the Pollution Board and Board will take the action against the defaulter, if found at any stage.

5. Sh. Naresh Pradhan R/o village Rampur questioned about passage and industrial plot (under R & R policy) general issue. He also told that farmers are not receiving royalty of their land. He has no objection regarding establishment of industries in IMT, Kharkhoda.

   Reply: AGM of HSIIDC replied that their reasonable demands are under consideration and plots (under R & R policy) will be allocated after development of basic infrastructure in IMT.

6. Sh. Ramesh R/o Village Gopalpur asked about the land acquisition and registered complaint regarding the non-disbursal of payment of existing structures on acquired land i.e. borewell, trees, borewell operating room.
Reply: AGM of HSIIDC replied that their reasonable demands are under consideration only few cases are left and their problems will be solved within 03 Months.

7. Sh. Jai kumar Rana R/o Village- Sohti raised the general issues regarding passage of road, land acquirement, Jobs and development fund for the villages.

Reply: AGM of HSIIDC replied that their reasonable demands are under consideration and HSIIDC will not block any existing passage.

8. Dr. Mahinder R/o Village Nizampur Khurd raised the question regarding the gazette notification land acquirement and Job of villager whose land is acquired by the HSIIDC, not released the payment of borewell and no timely disbursement of royalty.

Reply: AGM of HSIIDC replied that their demands regarding CER funds is under consideration and two development projects in Village Kundal has already been approved and he requested the Residents to submit the proposal for development work through BDO's and after estimation of cost of development work, HSIIDC will release the funds for the designated project. The plots will be allocated after development of basic infrastructure and final allotment is expected within 06 -12 months. The jobs will be given once the project is under operation.

9. The written requests submitted by the representatives of nearby villages are enclosed herewith.

Sh. Sanjiv Kumar Assistant Environmental Engineer, Haryana State Pollution Control Board, Sonepat requested for any other suggestion/query from the public.

Additional Deputy Commissioner, Sonipat told that the suggestions will be taken care and asked the public present that they can also submit their

objections or queries, if any, personally in his office today or later on & action will be taken.

Thereafter, with the permission of Additional Deputy Commissioner, Sonipat, AEE, HSPCB, Sonipat declared the public hearing to be concluded & ended with a vote of thanks.

Vikas Hooda
J.E.E.

Sanjiv Kumar
A.E.E.

Lalit Malik
A.E.E.

Balraj Ahlawat
Regional Officer, HSPCB, Sonipat

Sh. Jaibir Singh Arya
Additional Deputy
Commissioner, Sonipat

Township project, Kathkhoda, Sonepat Haryana
08.03.19

S.No	Name of officer	Designation	Signature
1.	Jaibir Singh Arya	HPC – SNOP	
2.	Arun Kumar Gadge	AGM(IA)/ HSIIDC	
3	Kapil Mittal	Asst. Director, DIC Snp	
4.	Shweta Suhag	SDM, KKD	
5.	Lalit Malik	A.E.E, HSPCB	
6	Sanjiv Kumar	A.E.E HSPCB	
7.	Vikash Kumar	J.E.E, HSPCB	
8	Robin Bathla	Manager (IA) HSIIDC	

438

Attendence Register of HSIIDC, IMT
Public Hearing on dated 08.03.2019
at Kharkhoda, Sonipat

Attendence — to Register 439

S.N.	Name	Address	Mobile No	Signature
1	Rama Sharma	Gopalpur	9416873981	
2				
3	Anil Parihar	Sohati	8295998301	
4	Jaipal	Sohati	8010418404	
5	Jai Kanwar Rana	Sohati	9414967700	
6	Kalyan Singh	Sohati	9996139465	
	सन्दीप राणा	सोहटी	7988911824	सन्दीप राणा
7	दिनेश सिंह	सोहटी	9896918344	दिनेश सिं
8	Omkanwar	Rampur	9466381138	
9	Naresh Sarpanch	Kanpur	9813273750	Naresh
10	Jaipal Singh	Singh	9671566159	Jaipal
11	Pipal M	Singh		
12	Tara Ji	Singh	8607055733	
13	Jain Yadav	Singh		
14	Chander Bir	Rampur	9050524898	
15	Nanda	Rampur	9671624521	Nanda
16				
17				

DOHS

S.No	Name	Address	M. No.	Signature
19.	Jaivir Singh	Gopalpur	9837204866	
20	Raj Singh	Gopalpur	9991482215	Raj Singh
21	राजसिंह नरवरिया	गोपालपुर	9813464910	Raj Singh
22	Amit	रामपुर	9416171427	Amit
23	[illegible]	रामपुर		
	[illegible]	रामपुर	9466843844	[illegible]

S. No	Name & Village of Participant	Issues Raised	Commitment by Project Proponent
1	Sh. Dharmpal*R/O* Village- GarhiKundal	He asked about the Air pollution such asbad odour from the footwear industries which are to be established in the proposed IMT, Kharkhoda.	Project proponent and their consultant replied that there will be no major Air pollution problem due to proposed footwear park in IMT as all theindustries that will be installed are in least polluting category and all industries will be required to obtain NOC from HSPCB before establishment and will provide proper and adequate APCM along with periodic monitoring. Preventivemeasures for noise, water, air pollution under the existing framework of law to be complied with and assured the minimum disturbance in present environment of area.
2	Sh. Dharmpal*R/o* Village- GarhiKundal	He questioned that there are such type of industries which are already operatingat Village Ferzopur Banger which creates very high Air Pollution and he has doubt that they will face similar problem here	AEE of HSPCB replied that the stringent action has been taken against the violators the HSPCB by sealing plant and machinery of 08 No. ofindustries. HSPCB will take action against violators as provision of Acts/ Rules.
3	Sh. Hansraj Rana *R/o* Firozpur Bangar(member of BhoomiBachaoTalmal Committee)	He raised the issues about the land acquisition, and farmers are facing problems regarding delay caused in disbursement of Royalty etc., he hasrequested that the demands of the farmers may be considered.	AGM of HSIIDC replied that all necessary action/steps are being taken so that royalty related issues are dealt on priority.
4	Sh. Parveen Rana *R/o* Village Kundal	He asked about that the accident like tragedy of Bhopal Gas can happen at proposed IMT also. He also questioned that what action will be taken if such type of incident happened. He also questioned about the utilization of CSR funds.	Project proponent replied that no such type of industries will beinstalled in this proposed IMT, Kharkhoda. The Project Proponent replied that the CSR funds will be utilized as per the provision in the public interest and estimate shall be prepared through BDO's by listing the works that needs to be done. The AEE of HSPCB also elaborated that all the industries will be established after taking prior NOC from the Pollution Board and

S. No	Name & Village of Participant	Issues Raised	Commitment by Project Proponent
			Board will take the action against the defaulter, if found at any stage.
5	Sh. Naresh Pradhan *R/o* village Rampur	He questioned about passage and industrial plot (under R & R policy) general issue. He also told that farmers are not receiving royalty of their land. He has no objection regarding establishment of industries in IMT, Kharkhoda.	AGM of HSIIDC replied that their reasonable demands are underconsideration and plots (under R & R policy) will be allocated after development of basic infrastructure in IMT.
6	Sh. Ramesh *R/o* Village Gopalpur	He questioned about the land acquisition andregistered complaint regarding the non-disbursal of payment of existing structures on acquired land i.e. borewell, trees, borewell operating room.	AGM of HSIIDC replied that their reasonable demands are underconsideration only few cases are left and their problems will be solved within 03 Months.
7	Sh. Jai kumar Rana *R/o* Village- Sohti	raised the general issues regarding passage ofroad, land acquirement, Jobs and development fund for the villages.	AGM of HSIIDC replied that their reasonable demands are underconsideration and HSIIDC will not block any existing passage.
8	Dr. Mahinder*R/o* Village NizampurKhurd	raised the question regarding the gazette notification land acquirement and Job of villager whose land is acquired by the HSIIDC, not released the payment of borewell and no timely disbursement of royalty.	AGM of HSIIDC replied that their demands regarding CER funds isunder consideration and two development projects in Village Kundal has already been approved and he requested the Residents to submit the proposalfor development work through BDO's and after estimation of cost ofdevelopment work, HSIIDC will release the funds for the designated project. The plots will be allocated after development of basic infrastructure and final allotment is expected within 06 -12 months. The jobs will be given once the project is under operation.

Haryana State Pollution Control Board
C-11, Sector-6, Panchkula
Website – www.hspcb.gov.in E-Mail - hspcbho@gmail.com
Tele No. – 0172-2577870-73

HSPCB

Notice for Public Hearing

It is for the information of all concerned that Industrial Model Township is going to be established by HSIIDC at Kharkhoda, Sonepat. The project is covered under the ambit of Environment Impact Assessment Notification No. S.O. 1533 (E) dated 14th Sep, 2006 issued by Ministry of Environment, Forests, & Climate Change, Govt. of India, New Delhi and thus Environmental Clearance is mandatory for the proposed project. Accordingly, the project proponent has applied to the concerned authority for Environmental Clearance and the public hearing has been fixed as per details given below:-

Sr. No.	Name of Unit	Date of Public Hearing	Time of Public Hearing	Venue of Public Hearing
1.	Industrial Model Township Kharkhoda, Sonepat	08.03.2019	11:00 AM	Kharkhoda

As a part of procedure for seeking the Environmental clearance, as notified by the Ministry of Environment, Forests & Climate Change, Govt. of India, New Delhi vide Notification No. S.O. 1533 (E), dated 14.09.2006, the project proponent mentioned above have applied for establishment of Industrial Modal Township at Kharkhoda, Sonepat. Accordingly, the Public Hearing for the above said project has been fixed on **08.03.2019** at 11.00 A.M at the Project Site mentioned above. The copies of Executive Summary of the project and EIA study report submitted by the project proponent are available in the Head Office of the HSPCB as well as in the following offices, which can be perused during office hours, on any working day:-

1. Deputy Commissioner, Sonepat
2. Regional Officer, Sonepat Haryana State Pollution Control Board, Star Complex, Opp. General Hospital, Delhi Road, Sonepat
3. O/o Zila Parishad, Sonepat
4. O/o Municipal Corporation, Sonepat
5. Joint Director, District Industries Centre, Sonepat

Notice is hereby given to all concerned to file suggestions, views, comments and objections, if any, on the proposed project, to the Chairman, Haryana State Pollution Control Board, C-11, Sector-6, Panchkula as well as Regional Officer, Sonepat Haryana State Pollution Control Board, Star Complex, Opp. General Hospital, Delhi Road, Sonepat within 30 days of the publication of this notice. Besides a Public Hearing will also be held on the Date, Time & Venue mentioned above at the proposed site of the project, which can be attended by any person including Environmental Groups, bonafide residents and others, located at the project site of displacement likely to be affected. Oral/Written suggestions, if any can also be made during the Public Hearing.

No TA/DA will be admissible for attending the Public Hearing.

Member Secretary

हरियाणा राज्य औद्योगिक
एवं संरचना विकास
निगम लिमिटेड

Haryana State Industrial and
Infrastructure Development
Corporation Ltd.

(A State Government Undertaking)

No. HSIIDC:IA:AMB:2019: 6352 Dated: 11-2-2019

The Asstt. General Manager(IA),
HSIIDC, Indl. Estate, Kundli,
Distt. Sonepat.

Subject: Regarding Conducting of Public Hearing for Environmental Clearance for Haryana Estate Industrial and Infrastructure Development Corporation, Industrial Model Township at Kharkhoda, Sonepat.

Dear Sir,

Please find enclosed herewith the copy of letter no. HSPCB/WC-760/5091 dated 17.01.2019 received from O/o Haryana State Pollution Control Board, regarding the subject cited matter.

You are, therefore requested to take further necessary action in the matter, accordingly.

Thanking you,

Yours faithfully,
For Hr. State Indl. & Infrast. Dev. Corpn. Ltd.

(Ajay Bansal)
Asstt. General Manager(IA)/HQ

Encl: As above.

Haryana State Pollution Control Board
C-11, Sector-6, Panchkula
Website – www.hspcb.gov.in E-Mail – hspcb.hq@gmail.com
Tele No. – 0172-257 7870-73

No. HSPCB/WC-760/ 5091 Dated: 17.01.2019

MD/HSIIDC/HID No. 2110
Dated 25/1/19.

To

The Director General,
Information, Public Relations
& Cultural Affairs Department,
Haryana, Chandigarh.

Sub: Regarding Conducting of Public Hearing for Environmental Clearance for Haryana Estate Industrial and Infrastructure Development Corporation, Industrial Model Township at Kharkhoda, Sonepat.

MD- Busy (MB).

Kindly refer to the subject noted above.

I have been directed to enclose herewith an advertisement regarding notice for Public Hearing to be held on **08.03.2019 at 11:00 AM** in respect of Environment Clearance and conducting of Public Hearing of Industrial Model Township of M/s Haryana Estate Industrial and Intrastructure Development Corporation Ltd., Kharkhoda, Sonepat for publication in the following leading newspapers on DAVP rates -

1. One major national daily newspaper.
2. One Regional Vernacular daily Newspaper in Hindi.

This advertisement should appear on or before **19.01.2019** in the above said two newspapers only and bills of above two newspapers on DAVP rates be sent to this office at the earliest. The bill payment of above said notice will be made for two newspaper only.

DA/Advertisement

Environmental Engineer (HQ)
For Member Secretary

Endst. No. HSPCB /WC-760/ 5092 – 5095 Dated: 17.01.2019

A copy of the above is forwarded to the following for information and necessary action please –

1. Deputy Commissioner, Sonepat.
2. The Chairman, Zila Parishad, District Sonepat.
3. Municipal Corporation, Sonepat for display on Notice Board.
4. Joint Director, District Industries Centre, Sonepat.

DA/Advertisement

Environmental Engineer (HQ)
For Member Secretary

Endst. No. HSPCB /WC-760/ 5096 – 5098 Dated: 17.01.2019

1. A copy of the above is forwarded to the following for information please:-
2. Regional Officer, Haryana State Pollution Control Board, Star Complex, Opp. General Hospital, Delhi Road, Sonepat alongwith copy of EIA report and Executive Summary and CD for sending the same to the concerned authorities mentioned above to place the same in their offices for consultation of the general public during office hours.
3. Managing Director, Haryana Estate Industrial and Infrastructure Development Corporation, Panchkula.
4. Environmental Engineer (IT) to upload the public notice on website of the Board.

DA/Advertisement

Environmental Engineer (HQ)
For Member Secretary

Endst. No. HSPCB /WC-760/ 5099 – 5102 Dated: 17.01.2019

A copy of the above is forwarded to the following for information please:-

1. The Additional Chief Secretary to Govt. Haryana, Environment Department.

Haryana State Pollution Control Board
C-11, Sector-6, Panchkula
Website – www.hspcb.gov.in E-Mail - hspcbho@gmail.com
Tele No. – 0172-2577870-73

HSPCB

Notice for Public Hearing

It is for the information of all concerned that Industrial Model Township is going to be established by HSIIDC at Kharkhoda, Sonepat. The project is covered under the ambit of Environment Impact Assessment Notification No. S.O. 1533 (E) dated 14th Sep, 2006 issued by Ministry of Environment, Forests, & Climate Change, Govt. of India, New Delhi and thus Environmental Clearance is mandatory for the proposed project. Accordingly, the project proponent has applied to the concerned authority for Environmental Clearance and the public hearing has been fixed as per details given below:-

Sr. No.	Name of Unit	Date of Public Hearing	Time of Public Hearing	Venue of Public Hearing
1.	Industrial Model Township Kharkhoda, Sonepat	08.03.2019	11:00 AM	Kharkhoda

As a part of procedure for seeking the Environmental clearance, as notified by the Ministry of Environment, Forests & Climate Change, Govt. of India, New Delhi vide Notification No. S.O. 1533 (E), dated 14.09.2006, the project proponent mentioned above have applied for establishment of Industrial Modal Township at Kharkhoda, Sonepat. Accordingly, the Public Hearing for the above said project has been fixed on **08.03.2019** at 11.00 A.M at the Project Site mentioned above. The copies of Executive Summary of the project and EIA study report submitted by the project proponent are available in the Head Office of the HSPCB as well as in the following offices, which can be perused during office hours, on any working day:-

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4. O/o Municipal Corporation, Sonepat
5. Joint Director, District Industries Centre, Sonepat

Notice is hereby given to all concerned to file suggestions, views, comments and objections, if any, on the proposed project, to the Chairman, Haryana State Pollution Control Board, C-11, Sector-6, Panchkula as well as Regional Officer, Sonepat Haryana State Pollution Control Board, Star Complex, Opp. General Hospital, Delhi Road, Sonepat within 30 days of the publication of this notice. Besides a Public Hearing will also be held on the Date, Time & Venue mentioned above at the proposed site of the project, which can be attended by any person including Environmental Groups, bonafide residents and others, located at the project site of displacement likely to be affected. Oral/Written suggestions, if any can also be made during the Public Hearing.

No TA/DA will be admissible for attending the Public Hearing.

Member Secretary

PRESENT STATUS OF PLOTS IN RESPECT OF INDUSTRIAL ESTATE, - KUNDLI PHASE-I

Plot No.	Name of allottee (S/Sh.)	Name of project	Area in Sqm.
1	M/s Shakti Ice & Cold Storage P . Ltd	Cold Storage	2195.7
2	M/s Mohan Udyog	Corrugated Boxes,	2195.7
3	M/s Marcos Global		
3	Seema Kapoor & Sapna Kapoor	Packaging material	2196
4	M/s Techno World		
4	Sunil Kapoor	Packaging, plastic products & printing	2732.26
5	M/s Garg Sons India (P) Ltd. - Transferee	SS Sinks / Utensils	2732.26
6	Telephone Exhange	Exchange	4000
7	M/s Kapoor & Saigal Fabrics	Cirtains Cloths	4000
8	M/s Technomech (India) Rubber Moulder Pvt. Ltd.	Rubber Auto parts	4000
9	Kufri Ice & Cold Storage	Cold Storage	2000
9A	Parsons Knitwears (P) Ltd.		2000
10	M/s Wool Fibre & Spinners.	Spining Yarn	4000
11	M/s C.Lal Electrical	Spining Yarn	4000
12	M/S R.. Cold Storage Pvt. Ltd	Cold Storage	4000
13	M/s Cactus Steels (P) Ltd.	Corrugated Sheets	4000
14	Plot do not exist due torevision of layout plan		
15	M/s Match point processors (P) Ltd.	Dyeing	970
16	Noble Seeds Pvt. Ltd.	Seeds	1000
17	M/s Kun SunFabric (P) Ltd.	medicines & drugs	1000
	Sh. Punit Jain & Sh. Rishabh Jain on dated 05.08.14		
18	M/s Friendsco Engg. Works	Diseal Fule pump set	1000
19	Sh. Rakesh Verma	Home Appliances	1000
20	M/s Lucid Helath care Pvt. Ltd.	Pharmaceutical	1000
21	M/s pragati Ice & Cold storage	Cold Storage	1000
22	M/s Lohani Ice & Cold Storage	Cold Storage	1000
23	M/S Vikram Ice & Cold Storage	Cold Storage	970.5
24	Shree Balaji International		1000
25	Shree Balaji International		1000
26	Sh. Vinay Garg and Smt. Sunita Garg	Non Woven Fabrics	1000
27	M/s Twenty First Centuary P. Ltd	Readymade Garments	1000
28	M/s Kundli Cold Storage P.Ltd.	Cold Storage	1000
29	Anjali Jain, Prop. M/s Gimar International	Baby Toys	1000
30	M/s JSA Print India Pvt. Ltd.	Mfg. of Printing & Packaging	1000
31	M/s Hi-Fly Industries	Hawai Chappal	1000

32	Minakashi Paper Converting Industries	Paper Converting	970
33	M/s Sunbeam Pipes P. Ltd.	Cold Storage	1210.5
34	M/s S.K. Jain Cosmo Enterprises.	Rubber Auto parts	1000
35	M/s Jain Labls P. Ltd.	Woven Lable	1000
36	M/s Hindustan Rang Rassayan Udyog.	Dyes	1000
37	M/s Hindustan Rang Rassayan Udyog.	Dyes	1000
38	M/s S.P.Herbochems Pvt.Ltd.	Herbal Product	1000
39	M/s Surbhee Indol .Products Ltd.	Polyester Resin	1000
40	Sh. Joginder Lal Bedi.	Micro Neutrients	1000
41	Smt. Kiran Singhal	Metal products	1000
42	M/s Sadhu Embroidery (P) Ltd.	Embroidery on garments	1000
43	M/s Starlite Industries Ltd.	Glass Marbels balls	1000
44+45	M/s Starlite Industries Ltd.	Cold Storage	2000
46	K.V. Spices India Pvt.Ltd.	Spices	1000
47	Smt. Ritu Madan .Prop	Knitted Cloth	1000
48	M/s D.K Power Engg P. Ltd.	Ready Made Garments	1000
49	M/s Gogia Ice & Cold Storage P. Ltd.	Cold Storage	1000
50	M/s C.D Garg & Sons	Corrugated Boxes	1000
51	M/s J.R Fabric P. Ltd.	Frunishing Fabric	4335
52	M/s Nikhil Footwears P. Ltd., 98, Shahzada Bagh Indl. Area, Old Rohtak Road, Delhi - 35	Sport Shoes	4335
53	M/s Nikhil Footwears P. Ltd.	Sport Shoes	4335
54	M/s Surya India Poly Sacks P. Ltd.	Woven Sacks	4335
55	Sh. Sanjeev Kapoor	Mfg.of Wire Products	4335
56	M/s Testwell Plastichem Pvt. Ltd.	Format dehyderade	4335
57	plot do not exist due to revisionof layout plan	Vacnat	1800
58	plot do not exist due to revisionof layout plan	Vacant	1100
59	plot do not exist due to revisionof layout plan	Vacant	1100
60	M/s Advance Ventilation Pvt. Ltd.	Knitted Fabric	2100
61	M/s Lohia Metals Ltd.	Ferrous Metal Casting	2100
62	M/s Abrol Watches P. Ltd.	Watch Parts	2100
63	M/s Raghunath Equipments P. Ltd.	Fabrication	2100
64	M/s Sharma Ice & Cold Storage	Cold Storage	2100
65	plot do not exist due to revisionof layout plan		
66	plot do not exist due to revisionof layout plan		
67	Reserve for CETP		

68	M/s Golden Velvet & Furnishing	Loose ends of yarn	2022
69	M/s Aveer Electrical.	Corrugated Boxes	2022
70	plot do not exist due to revisionof layout plan		
71	plot do not exist due to revisionof layout plan		
72	M/s Rangoli Furnishing Pvt. Ltd.	Tery Towel	2100
73	Roop Garg Ice & Cold Storage	Cold Storage	2100
74	M/s Streling Agro Industries	Milk Product	2100
75	M/s Streling Agro Industries	Milk Product	2100
76	M/s Streling Agro Industries	Milk Product	2100
77	plot do not exist due to revisionof layout plan		
78	plot do not exist due to revisionof layout plan		
79	M/s Daily Food Product	Food Products	2438
80	M/s Daily Food product	Food Products	2190
81	M/s Maiden Pharmaceuticals Ltd.	Pharmaceutical	2190
82	M/s Kundli Woolen Mills	Spining Yarn	2438
	M/s Sri Tag Knitters Pvt.Ltd.		
83	M/s M.C Luthra Ice & Cold Storage	Cold Storage	2438
84	National Cottage Industries	Readymade Garments	1170
85	M/s Sigma Industries	Fab. of Dairy mach.	1000
86	Omram Construction Co. Pvt. Ltd.	Cold Storage	1000
87	M/s Garg Sons Pvt. Ltd.	S.S Utencils	2190
88	M/s Sharman Udyog Pvt. Ltd.	Woven Label	2190
89	Sh. Atul Garg, Sh. Amit Gart & Sh. Sachin Garg	Stationery Items	1000
90	M/s Indl. Alders	Fab.of dairy Mch.	1000
91	M/s Garg Sons India (P) Ltd.	SS Sinks / Utensils	
92	M/s ndustrial Alders	Fabrication of Indl.	1170
93-95	Jawala Ago Inds.	Jewellary	3168.65
96	Diwas Rana/FTL issued in favour of M/s Atul Paper Pvt. Ltd.	Embroidery	1012.5
97	M/s Seato Engineers	Tractor Parts	1000
98	M/s Jaunga Promoters & developers P. Ltd.	L.T Switches	1170
98A	Vacant		
99	M/s Kundli Thread Mills P. Ltd.	Doubling of Cotton	1722
100	Smt Krishna Talwar	Bathroom Sanitary	1200
101	M/s Advance Ventilation P. Ltd.	Air Blowers	1200
102	Sh. Subhash Gupta	Tape	1200
103	M/s Bindal Coat Pvt. Ltd.	Interlining on cloths	1200
104	M/s Shivam Preservation Pvt. Ltd.	Cold Storage	1200
105	M/s Hindustan Rang Rasayan Udyog	Dyes	1200
106	M/s Lal Ji Polyrex P. Ltd.	Coated Cotton	1200

107	Sanjay Kapoor / PTL issued in favour of M/s Wellplan Vinimay Pvt. Ltd. on 21.04.17	Packaging material	1200
108	M/s surya Leb Pvt. Ltd.	P. P. Filament Yarn	1200
109	M/s Sangam Petro Plast Pvt. Ltd.	Polythene bags	1200
110	Swakshi Textiles Pvt. Ltd.	Processing of yarn & fabric	1200
111	M/s Delite Hosiery Industries Pvt. Ltd.,	Knitted Clothes	867
112	Sh. Gurinder Monga	Embroidry works	867
113	M/s Arihant Packaging	Plastic sheet & film	867
114	M/s Kohinoor Synthetic Ltd.	Furnet dehye	867
115	M/s Haryana Research & Testing Centre	Lab Equipements	867
116	M/s Parneet textile Pvt. Ltc.	Jacquard Yarn	947
117	M/s Booster Enterprises	Nut/Bolts	947
	M/s Kanika Metal Pvt. Ltd.	Stainless Steel Utensils	947
118	M/s Indo Tex	P.P Filaments	947
119	M/s Alwyn Bikes	Engineering Works	947
120	Sh. Narender Aggarwal	Processing of Spices	947

PRESENT STATUS OF PLOTS IN RESPECT OF INDUSTRIAL			
Plot no.	Name of allottee	Name of project	Area in Sqm.
121	Dr. R.N.Goel	Adhashive	1000
122	M/s Kajriwal Plastic P. Ltd	Plastic goods for house hold	1000
123	Plot do not exist due to revision of layout plan		
124	Rakhi Garg (transferee)	SS/Copper utensils	1000
125	M/s ANB Auto India (P) Ltd.	Auto Parts	1000
126	M/s BCI Opticals Discs Limited	Casseets	1000
127	Sh. Rakesh Verma	Textile Thread	1000
128	M/s Technocast Engg.	Electronic Induction	1000
129	M/s Rajan Weaver Craft (P) Ltd.	Jacquard Curtain & Uphostry	1000
130	M/s Safari Cycle P.Ltd.	Tri Cycle	1000
131	Sh. Sunil Mittal	PVC Seperators & Plastic Parts	1000
132	M/s Nit Filaments	PP filament Yarn	1070
133	M/s Nutex Duro Elast P. Ltd	Elastics	1305
134	M/s Safari Playmates Pvt. Ltd.	Baby/Tricycle	1023.5
135	M/s Win Poly Filaments P. Ltd.	Filament Yarn	1023.5
136	M/s NCR Overseas Pvt. Ltd.	Allumiuium fabrication	1023.5

Plot no.	Name of allottee	Name of project	Area in Sqm.
	M/s N.V. Industries	Recycling of plastic waste	
137	M/s Super Paints Chemicals	Paints	1023.5
	M/s Essar Overseas	Home Furnishing items	
138	M/s Unique Bimetals	House Plastic Product	1023.5
139	M/s P.K Export	Readymade Garments	1306
140	M/s Vichitra Export P. Ltd	Cold Storage	1305
141	M/s Shree Neelkanth Industry.	Nut & Bolt	1305
142	M/s Manohar Filament Pvt. Ltd	Woven Labels	1023.5
143	M/s Manohar Filament Pvt. Ltd	Woven Labels	1023.5
144	M/s Mapsa Tape Industries	Adhesive Tape	1023.5
145	M/s HP Knitting & Furnishing Mills, FTL issued in F/o Sh. Nimish Mittal on dated 31.08.2018	Hosiery Dyeing	1023.5
146	M/s Kumar Ice & Cold Storage	Cold Storage	1304.96
147	M/s Benlon Industries Ltd.	nylon Yarn	973
	FTL issued in f/o M/s Brothers Stretch Yarn Pvt. Ltd.	Synthetic Yarn	
148	M/s Chempharm Industries (India) Ltd.	Engg. Goods	973
149	M/s Ranisati Ice Cream P. Ltd	Ice Cream	973.2
150	M/s S.K System P.Ltd.	Air Blower	973.2
151	M/s S.K System P.Ltd.	Air Blower	973.2

Plot no.	Name of allottee	Name of project	Area in Sqm.
152	M/s Logic Fastner Pvt. Ltd	Woven Label	1007.3
153	M/s Gulshan Ice & Cold Storage	Cold Storage	1815
154	M/s Modern Fabric Pvt. Ltd.	Hoisery Goods Knit Wears	1815
155	M/s G.S Setia & Brothers Pvt. Ltd	Cloth Dyeing	1815
156	Sh. Harvinder Jain Prop. M/s Gaurav Foods	Bread	1815
	(Transferee)		
157	M/s Super Statics Devices (P) Ltd.	Oil Air Fuel Filter	1815
158	M/s Sagar Ice & Cold Storage	Cold Storage	1815
159	M/s Moulder & Fabricators	Fabrication	1815
160	M/s Skal Auto Pvt. Ltd.	Auto Tilee	1815
161	M/s Sharman Udyog Pvt. Ltd	Woven Lables	1815
162	Parshva Publishers Pvt. Ltd. Transferee	Publishing of books	1815
163	M/s Mocem	Laces	2170.5
164	Sh. Ashok Kumar Danodna	Plastic Components	1260
165	M/s Radhey Shyam Engg. Works (P) ltd	Electronic grade	1165.5
166	M/s Sai Kirpa Ice & Cold Storage (P).Ltd	Cold Storage	1067.5
167	M/s Sai Kirpa Ice & Cold Storage (P).Ltd	Cold Storage	930.06

Plot no.	Name of allottee	Name of project	Area in Sqm.
168	M/s kirti Corporate Articals	Wooden gift	335.25
169	Super Power Automobiles (P) Ltd. Transferee	Auto & ADV Tubes	450
170	M/s Ocean Enterprises India	Auto Parts	450
	FTL issued in f/o M/s Artize Die Makers,	Die Cutting	
171	Surender Mann	Readymade Garments	450
172	Meenu Goyal (Transferee)		450
173	M/s PSM Mfg. Pvt. Ltd.	Mfg. of steel fabrication	450
174	Sh. Sanjeev Kumar Jain	Readymade Garments	450
175	M/s Bir Enterprises Transferee	Printed cartons & Boxes	450
	M/s SS Masters Pvt. Ltd.	SS Metal Products	
176	M/s KL Transpower Pvt. Ltd.	S.S. utensils	1025.6
177	M/s Luxmi Filaments Pvt ltd.	PP Filament Yarn	1066.3
178	M/s HSJ Spining Mill Pvt.Ltd. (Transferee)	Spining Yarn	1066.3
179	M/s Gopi D Hydration Pvt. Ltd.	Vegetable Dehydrates	506.25
180	Post Office		450
181	M/s Sugandh Tea (P) ltd	Ice Cream	450

Plot no.	Name of allottee	Name of project	Area in Sqm.
182	M/s Star Enterprises	Hawai Chapple	450
183	M/s Jai Auto Industries	Rubber auto parts	450
184	M/s Hari Om Labels (P) Ltd.	Woven Labels	450
185	M/s Om Arihant Labels Pvt. Ltd.	Woven Labels	450
186	Sh. Anil Kumar Sharma	L.T. Switch gears	450
187	Mrs. Ashu Jain		450
188	M/s Oswal Tyres	Rubber trolly wheel	450
189	M/s Kargo Aqua Engineering	Confectionery items	450
190	M/s Haryana Polychem Ltd.	Polymer compounds	447
191	M/s Associate Industries	PVC wire	450
192	M/s Posh Polymers Pvt. Ltd.	Blow moulded	450
193	Smt Sushma Jain & Smt. Mahima Jain	M/g. & processing plant & machinery, machinery parts, metal fabrication, workshop and other allied activities	450
194	M/s Power Pack Rubber Belt Pvt.Ltd.	Rubber Belt	450
195	M/s S.K Automation Pvt.Ltd.	V-Belt & Fan Belt	450
196	Smt. Harjeet Kaur Chadda	Auto Parts & Components	450

Plot no.	Name of allottee	Name of project	Area in Sqm.
197	M/s Gautam Plastic Wares	Plastic wires	450
198	M/s Industrial Metalisures	Metallsures Chemicals	450
199	M/s Jagdamba Packaging Industries Pvt. Ltd.CIC was allowed (within family) on dated 29.04.16	Paper Tube & Core Mfg.	450
200	M/s G.S. Setia & Brothers Pvt.Ltd.	Textile & Dying	450
201	M/s Best Lables Co. Pvt. Ltd.	Woven labels	529.95
202	Sanwariya Apparels Pvt. Ltd. (Transforee)	Embroidery	544.05
203	M/s Diwan Refregeration Pvt. Ltd.	Industrial Ref Machinery	450
204	Sh. Vijay Kr. Jasrasia	Cold Storage	450
205	M/s God gift Laboratories Pvt. Ltd.	Pharmaceutical	450
206	Sh. Mahesh Chandra	Food ingredients	450
207	M/s Arihant Trading Co.	Readymade Garments	450
208	M/s Parteek Electronic Pvt. Ltd.	Electronic items	450
209	Parveen Chugh (Transferee)	Processing, cleaning & packaging of seeds	450
210	Sh. Om Pal Saini	Electronic Items	450
211	M/s Banarasi Das & Prem Kumar	Fruit Juice Product	450
212	M/s Guru ji Enterprises Pvt. Ltd./FTL isued in f/o M/s Kapoor Enterprises	Thandal	450

PRESENT STATUS OF PLOTS IN RESPECT OF INDUSTRIAL ESTATE, - EPIP

S. No.	Plot no	Name of plottee (S/S/o.)	Name of project	Area in Sqm.
1	300	M/s Shri Lal Mahal Ltd.	Processing of Rice	5439.63
2	301	Karvy Aditya India Ltd.	Processing of Rice	5342.07
3	300-A	M/s mGV Exports Pvt. Ltd.	Sarees & Dress Material	4045.5
4	300-B	M/s TVE Electronics	Assembling of mobile phones & mfg. of its parts & accessories etc.	4050 @ Rs.
5	300-C	M/s True Living Hometex Pvt. Ltd.,	Looms to be producted	1764
6	300-D	M/s Krishna Infosoft Pvt. Ltd.	Soft ware Development	1764
7	300-E	Jugat Singh Bisla, Prop. M/s Green Bio-Tech International	Biotechnology Unit	1764
8	300-F	M/s Green Earth Technology Pvt.Ltd	Software development	1764
9	300-G	Columbus Yat Pvt. Ltd	Paper cups	1859
10	300-H	Sh. Harottam Mittal / FTL issued in f/o M/s Touch of India Expo Pvt. Ltd.	Corrugated Kraft Paper, Boxes	1884
11	300-I	M/s Amantia International Pvt. Ltd,	Garments & Home Textile	1764
12	300-J	M/s Kenam Exim Pvt. Ltd	Plastic Moulded Carpets	1764
13	300-K	M/s Metro Diamonds India Pvt. Ltd.,	M/s of Textiles E Handloom	1764
14	300-L	M/s Sirro Fashions (P) Ltd.	Bags & Home Furnishing	1764
15	302	Swastik Polystyle (P) Ltd.	Cables / Shoes	6439.63
16	303	Anand Mechanical Works (P) Ltd,		4785.64
17	304	H.B. Exports	WZ-36, Village , Asaletpur .	4755.64
18-19	305-06	Invention India	Janakpuri, New Delhi- 110 058	3662.4
20	307	S M International	Readymade Garments	1831.2
21	308	K.C. International,		1831.2
22	309	M/s Replika Press Pvt. Ltd.	Mats / Textiles	1831.2
23	310	Replica Press (P) Ltd.	Printing press	1831.2
24	311	Replica Press (P) Ltd.	Printing press	1831.2
25	312	Sanal Printers	Printing press	1831.2
26	313	M/s Jaitroop Textile Pvt. Ltd.	Yarn, Fabric, Plastic Textile & other products	1950
27	314	Rajan Overseas (P) Ltd.	Food Product	1950
28	315	Saparsh Builders (P) Ltd.	Tobacco Product	1950
29	316	Dolphin International Ltd.	Utensils	1950
30	317	Sh. Naresh Kumar Saboo	Garments	455.1
31	318	M/s Hilary Products (P) Ltd.	Garments	455.1
32	319	Tribuita Texnit	Hosiery garments	455.1
33	320	Ms. Satya Gupta	Textiles/Garments	455.1
34	321	Sh. Swatantra Uppal	Garments/Solar Modules & other solar applications	455.1
35	322	Sh. Sudesh Kumar Gupta	Crystal Menthol	455.1
36	323	M/s Sai Vending Services Pvt. Ltd.	Vending machine, dispenser & other related products	450
37	324	Autovend Vending Solutions (P) Ltd.	Vending machines	455.1
38	325	M/s Saraswati Industry	Handloom Cloth	450
39	326	Sh. Rakesh Jain	Readymade Garments	455.1
40	327	Sethi Biscuit Factory Pvt. Ltd.	Biscuits	455.1
41	328	328 (NRI) (file received)	Mfg. of Corrugated Boxes	450
42	329	M/s Siddiqui	Garments	455.1
43	330	M/s GCS Impex	Plastic & metal components and assemblies	455.1
44	331	M/s Singhania Enterprises	Garments	455.1
45	332	Mr. Rajneesh Goel	Garments	455.1
46	333	Patel International Exports	Corrugated boxes	455.1
47	334	Sh. Jai Bhagwan Sharma	Garments	455.1
48	335	Sushil Arora		455.1
49	336	Smt. Kiran Singhal	Hand Bags & Accessories	455.1
50	337	M/s Jaikaran India Ltd.	Ayurvedic Medicine	485.94
51	338	M/s Gianji Enterprises Pvt. Ltd	Non fruit sharbats, Squashes, Syrups, Pickles, fruit beverages	485.94
52	339	Sh. Pardeep Narang	Jewellery	485.94

S. No.	Plot no.	Name of allottee (S/Sh.)	Name of product	Area in Sqm.
53	340	Komal Jain	Pet Bottles	485.94
54	341	M/s Victoria Mfg. & Packaging Co.	Pickles	485.94
55	342	M/s Rita Plastic Ltd.	Corrugated boxes	3346.46
56	343	Samsung Agro (P) Ltd.	Wire Cables	3346.96
57	344	M/s Kumar Steel Inc.	SS Utensils	1115.96
58	344A	Adinath Fashions (P) Ltd.	Embroidery	1115.5
59	344-B	S.K. Steels	SS Utensils	1096.64
60	345	Key Tex Fashions (P) Ltd.	Home Furnishing & Textile Made-ups	1026.12
61	345-A	M/s VNR Furnishing Pvt. Ltd.	Garments	1026.12
62	345-B	Bhadrat Exports (P) Ltd. C/C	Surgical Equipments	1025.61
63	346	Samsung Agro (P) Ltd.		450
64	347	Sh. Anil Jain & Sh. Deepak Jain	Footwears & EVA Compound	450
	348	Rajinder Aggarwal	Utensils	450
65	349	Sh. Shiv Narain Shahu	Leather Shoe / Upper	450
66	350	Sh. Suresh Malik	Auto parts	450
67	351	Anil Kumar	Garments	450
68	352	Spicemax Food Services (Transferee)	Spices	450
69	353	M/s Rama Krishna Enterprises	Tractor parts	450
71	354	M/s Tandon Plastic Industries	Bakery Items	450
72	355	Sh. Vikram Segal	IT Project	450
73	356	Seema Aggarwal, Prop., M/s Kapil Enterprises	Garments	450
74	357	M/s Garvit Creation Pvt. Ltd.	Readymade garments	450
75	358	Klimex Innovations	Auto Parts	450
76	359	M/s Isha International	Garments	450
77	360	M/s SUVIR FUel	Auto Parts	450
78	361	M/s Aakar Advertising	Corrugated boxes	450
79	362	Lokesh Ratan Jain & Vivek Ratan Jain	Brass hardware	450
80	363	Dheer Kapoor	Bathmats & madeups	450
81	364	Girish Rajpore	Utensils	450
82-83	365-66	Lakhbir Singh sahil	Garments	900
84	367	Pritam Singh	Cycle parts	450
85	368	M/s Saturn Technologies (Transferee)	Brass hardware	450
86	369	M/s Towa Metering Technologies Pvt. Ltd.	Measuring & Metering Instruments	450
87	370	Dhado Exports (P) Ltd.	Garments	450
88	371	Exoimpex (Transferee)	Auto parts	450
		Sh. Sanjeev Behal	Auto Parts & Bi-Cycle Parts	
89	372	Mr. Sidharth Goel, Jai Bhagwan Pal Goel, Mr. Nitin Anand and Mr. Rishi Gupta	Technical services	450
90	373	Dataman Infotech	Computer parts	450
91	374	Nirmal Designs Pvt. Ltd. (Transferee)	Home furnishings	450
92	375	Madhu Kapoor	Garments	450
93	376	M/s R.D. Exports	Garments	450
94	377	Vivek Ratan Jain & Sh. Lokesh Ratan Jain	Brass hardware	450
95	378	Sanil Polytext (P) Ltd.	Plastic Item	900
96	379	Abhishek Enterprises	IT Project	900
97	380	Sh. Surender Gandhi	Fancy Bells	900
98	381	Ramesh Chander Goel		900
99	382	M/s Navlight Cables Pvt. Ltd.	PVC Insulated wire	900
100	383	M/s Warm Lights Pvt. Ltd.	Handlooms, Dhurries, Cotton Fabric, Table Mat, Cushion	900
101	384	M/s Stallion Steelwares (P) Ltd.,	SS Utensils, garments	900
102	385	Shalu Jain	Formulation of Medicine	900
103	386	Atlanta Pack Mart Pvt. Ltd	Automobile Machinery parts	900
104	387	M/s IPC Automotive Pvt. Ltd.	Engineering goods	900
105	388	M/s Balaji Precision Components	Precision Components	900
106	389	Chetna Garg	SS Utensils, cutlery, hardware, plastiware & Fabrication	900
107	390	M/s Fatch Pharmaceuticals	Medicine	900
108	391	M/s Mallcorp Industries,	Fuel Filter	900
109	392	Mrs. Ajit Kaur,	Garments	900
110	393	Golden International,	Rubber Parts	900
111	394	Sanil Flange (P) Ltd.	Auto Parts	900
112	395	M/s Akhil Rubbers (P) Ltd.	Machinery parts	900

S. No.	Plot no.	Name of allottee (S/Sh.)	Name of project	Area in Sqm.
113	395	M/s Pagaria International	Garments	900
114	397	Sh. Vijay Parkash Aggarwal	PVC Extruded Copper & Aluminium Wires & Cables & other products	900
115	398	M/S Pinjo Kitchenware Pvt. Ltd.	Mfg. of Stainless Steel Utensils & Kitchenware	900
116	399	Rahul Shoewala	Readymade Garments	967.5
117	400	A. S. Sun Auto Best Enterprises	Auto Parts	900
118	401	R.K Automotive (P) Ltd.	Wheel Hub/Mfg. & export of Wheel, Disc	900
119	402	Gian Singh	Auto parts	900
120	403	M/s Kirti Global Kunch		900
121	404	Srishti Kant Bhardwaj	Brass Hardware	900
122	405	M/s Weavetex Exports	Mfg. of Textiles & Apparels	1012.5
123	406	M/s Jensons International	Stainless Steel Utensils	967.5
124	407	M/s. Deepshikha Aggarwal	Diamond Jewellery	900
125	408	M/s Batra Offset Printers Pvt. Ltd.	All kinds of printed stationery, paper packaging products, diaries, calendars, allied products	900
126	409	Anant Overseas (P) Ltd.	Garments	900
127	410	Unicorn Medident Pvt. Ltd	Dental equipment items	900
128	411	Sarvesheard Engineers	Engg. Goods	900
129	412	Khindan Furnishing (P) Ltd.	Textile	967.5
130	413	M/s Vintage Alcans Pvt. Ltd.	Mfg. of Aluminium	967.5
131	414	M/s Geoffery Pharmaceuticals Pvt. Ltd.	S.S. Utensils changed to Ayurvedic & Herbs. Products	900
132	415	M/s Nirmal Design (P) Ltd.	Interior Decoration	900
133	416	M/s Priya Metal Tech Pvt. Ltd.	Mfg. of confectionary items, wares & allied products	900
134	417	GNB Bros. (P) Ltd./FTL issued in f/o Mr. Jaswant Chand Mittal	Sofa Modules	900
135	418	Kokeya Designs (P) Ltd.		900
136	419	Chander Mohan Kapoor	Herbal Product	900
137	420	M/s Abbey Fashions P Ltd.	Readymade Garments	967.5
138	421	Manohar Filaments P Ltd	Woven table/	900
139	422	Manohar Filaments (P) Ltd.	Woven table/	900
140	423	Mehar Overseas	Packaging Material	900
141	424	Sh. Arvind Aggarwal	Lab Filters, Instruments & Plastieware	900
142	425	Sovereign Embroidery Pvt. Ltd.	Embroidery	900
143	426	Twenty first Century Textile (P) Ltd.	Embroidery	967.5
144	427	M/s Rukmaj Auto Industries (P) Ltd.	Auto Parts	1813.2
145	428	M/s Aarna Auto Exports Pvt. Ltd.	mfg. of automobile, electrical & sheet metal components	1800
146	429	Arjan Impex P Ltd.	pet toys	1800
147	430	Sarvesheard Engineers,	Engg. Goods	1800
148	431	Tent Auto Industries	Engg. Goods	1800
149	432	Swastic Multifibre P Ltd.	Garments	1813.2
150	433	Devisons Infinite Housewares (P) Ltd.	Utensils	1813.2
151	434	Vacant Temple at site		
152	435	Devisons (P) Ltd.	Utensil	1800
153	436	Allied Transmission Gears P Ltd.	Auto Parts	1800
154	437	M/s Kind Comfortable Clothing Pvt. Ltd.	Mfg. of Narrow Woolen Fabric Knitted fabric & allied products	1800
155	438	M/s Kind Comfortable Clothing Pvt. Ltd.	Mfg. of Narrow Woolen Fabric Knitted fabric & allied products	1800
156	439	M/s Unique Wood Products	Wood Product	1800
157	440	M/s Antarctica Equipment Pvt. Ltd.	Equipments for hotels & Rest.	1800
158	441	Aromasia Enterprises (P) Ltd.	Agarbatti/Candles	1800
159	442	M/s U Foods India Pvt. Ltd.	Mfg. of Fruball Jelly	1800
160	443	M/s Silver Mukher Rubber Ltd	Garments/Rubber Automotive Parts & Components	1800
162-63	444-45	Replica Press (P) Ltd.	Printing Press	3600
164-65	446-47	Sahni Weavetex (I) P. Ltd.	Garments	3600
166	448	Universal Knitwears	Garments	1800
167-68	449-50	Worldfa Fashions	Utensils/Garments	3600
169	451	M/s Fauji Auto Electric Pvt. Ltd	Forging unit	1800
170-71	452-53	Mehra Engineering Corpn.	SS Utensils	3600

S. No.	Plot no.	Name of allottee (S/Sh.)	Name of project	Area in Sqm.
172	454	M/s Agal Enterprises Pvt. Ltd.	Printing & packaging	1890
173	455	Sh. Ranjit Singh Saini	Bag Accessories & Handlooms	1800
174	456	Lalit Flower Intv. Corpn (P) Ltd	Garments Unit	1800
175-76	457-58	Trishul Exotic (P) Ltd.	Utensils/Garments	3600
177	459	Parveen Industries	Forging Unit	5443.2
178	459-A	Central Warehousing Corpn.	Warehouse & container	20250
179	459-B	Osram India Ltd.	Lighting Products	40080
180	459-C	Nomra Steel Ltd.	SS Round and C.R. Coil	7830
181	459-D	M/s Onex Industries Pvt. Ltd.	Commercial Kitchen Equipment & Stainless Steel Banquet Furniture	7827.15
182	460	M/s Universal Polychem India Pvt. Ltd	Plastic Items/Footwear & PVC Compound	5443.2
183	461	Nikhil Footwears Ltd.	SS Utensils	5443.2
184	462	M/s Nprintal Exports (P) Ltd.		3150
185	462-A	M/s Falcon Utensils Pvt. Ltd	Plastic Graurels	3150
186	463	M/s Enkay (India) Rubber Co.(P) Ltd.	EVA Footwear	1800
187	464	High Fly Footwears Ltd.	Footwears	1827.6
188-89	465-67	Parveen Industries (P) Ltd.	Forging unit	5482.8
190	468	M/s Willett Communications	Mfg. of Optical Fibre Cables & all types of cables	1800
191	469	Sh. Neeraj Jain	Mfr. of Utensils	1800
192	470	M/s Navya Apparels Pvt. Ltd.	Stainless Steel Utensils & Pet Products	1800
193	471	M/s Deepbhumi Garments Pvt. Ltd.	Socks & Knitted fabrics	1827.6
194	472	M/s Kuber Metalloys Pvt. Ltd.	Hardware & Hings Seet	1851
195	473	Landmark Infonet Pvt. Ltd.	IT Industries	1827.69
196	474	Sh. Ram Nath Gupta, M/s Shaurya Transmission & Gears (P) Ltd.	Handloom Unit	1827.6
197	475	Sh.Sail Industries M/s DND Impex (P) Ltd.	Garments	1827.6
198	476	Sh. Deepak Mohan Kalyal, M/s Jay Kay Housewave (P) Ltd.	Readymade Garments	1827.6
		M/s IE Auto Components Pvt. Ltd.	Auto Suspension Parts	
199	477	Gagan Preet Bhatia	Indl. Fitters, Stainers	1800
200	478	Senor Craft	Garments	1827.6
		M/. Mukesh Jain & M/s. Sonia Jain	Narrow Woven Fabric, Narrow Knitted Fabric & other allied products	
201	479	Rasta Land		
202-03	480-81	IE Auto Industrial Enterprises.	Auto parts	3600
204	482	M/s Ankit Fabrics Pvt. Ltd.	Readymade Garments	1800
205	483	Eight Commercial (P) Ltd.	Offset printing	1800
206	484	M/s Aihat Wood Pvt. Ltd.	Textile items/Mfg. of Wooden Doors & allied items	1800
207	485	Sh. Yash Pal Mittal	Textile unit of blankets	1800
208	486	M/s Kundan Texfab Pvt. Ltd.	Furnishing Fabric	1800
		M/s Kundan Tex Fab Pvt. Ltd.	Furnishing Fabric	
209	487	M/s. Rachna Gupta	Diamond Processing	1800
210	488	M/s Dig Apple Apparels (P) Ltd.	Fashion Garments	1800
211	489	M/s RK Paperex Pvt.Ltd.	Note books, exercise book, copy, register, cartoon box, corrugated boxes	1800
212	490	M/s Deshmesh Exports	Auto & Tractor parts	1800
213	491	M/s Padia Export (P) Ltd	Cutelry Items	1800
214	492	M/s Basant Exports	Garments	1800
215	493	M/s Philco Exports	SS Utensils	1800
216	494	M/s Saburi Packaging Pvt. Ltd.	Packaging Products	1800
217	499	M/s Shiva Utensils Industries Pvt. Ltd.	SS Utensils	1807.87
218	500	M/s Shiv Infocom Pvt. Ltd.	Textiles Fabrits, Mats & Carpets	1810.5
219	501	Atul Dwar (Partner)	Flexible Packaging Materials	1800
220	502	Sh. Raman Rawal	Mfg. of Bathroom Hardware & Sanitary Products	1800
221	503	Raghav Garments Pvt. Ltd.	Garments	1800
222	504	M/s VM Clothings Pvt. Ltd.	Mfg. Readymade Garment	1824
223	505	M/s Deepbhumi Infotech Pvt. Ltd.	Call centre	1800
224-26	153A2C	Magpple International Ltd.	SS Utensils	6320.07
227	153-D	Jagdamba Exports	SS Utensils	2020.5
228-29	153-GH	Sharman Lithog	Woven Labels	4047

S. No.	Plot no.	Name of allottee (S/Sh.)	Name of project	Area in Sqm.
230-31	153J	Jagdamba Exports	SS Utensils	3600
232	153-E	M/s Global Housewares Ltd	SS Utensils	2023.5
233	153-F	M/s Elegance Steelware India Pvt. Ltd.	SS Utensils	2023.5
234-35	153KL	M/s Foamtech Antifire Co.	mfg. of Fire Fighting equipments, Accessories, Vehicles & Extinguishing Media	3600
236-37	153MN	M/s Foamtech Antifire Co.	SS Utensils/ mfg. of Fire Fighting equipments, Accessories, Vehicles E Extinguishing Media	3600
238	153O	M/s Jayant Granites (P) Ltd.	Sand Stones Tiles	424.2
239	153-P	Mohan Lal Garg	Bathroom Fittings	418.5
240	153-Q	R.K. Auto Industry	Motor parts & Components	417
241	153-R	Ashwani Mangla	Garments	416.01
242	153-S	Anand Singhania	Readymade Garments	415.87
243	153-T	M/s Fluidline Hydro Equipments	Readymade Garments	415.2
244	153-U	Bharat Sales Corporation	Grinder & Hotel Equipments	414.375
245	153-V	Bhavratan Singh Sethi	Pharmaceuticals	413.625
246	153-W	SH. Deepak Chhabana & Smt Kavita Chabana	Readymade Garments	412.88
247	153-X	M/s Sun Biaceuticals Pvt. Ltd.	Ayurvedic Medicines & Cosmetika	412.5
248	153-Y	M/s Kaveri cables Industries	Mfg. & processing in all kinds of Solar Power Plant Lightning system, solar module & allied products	835.75
249	153-Z & 102	M/s Smrita Products (P) Ltd.	Dairy Products	2455

Sno-53, ph-V

S. No	Plot no.	Name of allottee (S/Sh.)	Name of project	Area in Sqm.
1	1	M/s Rajveer Enterprises	Mfg. of ready made garments i.e. denim jeans, shirts & trousers	1800
2	2	M/s A.G Steels	Cutlery & utensils	1840.5
3	3	M/s Vir Metal Corporation	Mfg. of all kinds of automobiles parts, its parts & allied products etc.	1800
4	4	M/s Pawan Gupta	Mfg. of multimedia cables	1840.5
5	5	M/s Jupiter Plastic	Mfg. of plastic products	1840.5
6	6	M/s Optima Industries	Mfg. of wrist watches	1800
7	7	M/s Sabella Refrigeration Pvt. Ltd.	Mfg. and design of industrial Air Conditioning and Air conditioning equipment	1800
8	8	M/s JV Pack	Plastic containers such as Bisleri containers, cream containers etc.	1800
9	9	Mr. Jasmandeep Singh Chawla	Injection moulding, forging, powder coating of automobile and its accessories	1800
10	10	M/s Gaurav Cutlery Works	Mfg. of kitchenware, cutlery & other allied products	1800
11	11	M/s KC Footwear Pvt. Ltd.	Mfg. of Footwear	1800
12	12	M/s Nataraj Home Furnishing Pvt. Ltd.	Mfg. of Home Furnishing made-ups for readymade outlets, readymade cushions, Labour Yarn, and Home articles	1800
13	13-14	M/s A.D Engineering	All Types of home appliance and sale	11100
14	15	Mr. Ashish Jain	Woven Narrow Fabric Machine	1017.5
15	16	Mr. Parminder Singh Gulati	Mfg. unit of readymade garments, sarees, blades, shawls, bags & leather fashion accessories, Tea Room	1017.5
16	16 A	M/s Kitik Enterprises	Extraction & solvent oil herbal etc	1017.5
17	16 B	Mr. Vivek Jain	Mfg. of electrical & home appliances, solar fittings	1017.5
18	16 C	Mr. Mohd Lal Verma	Mfg. of plastic items with emphasis on household items	1217.5
19	17	M/s Tecnia Infotech Pvt. Ltd.	Information technology facilities used to store, retrieve, transmit & manipulate data	4350
20	17A	Mr. Amit Kumar Jain	Pressure Cookers & all Utensils	3262.5
21	17B	M/s PC Jeller Pvt. Ltd.	Solar Panels	6725.5
22	17C	M/s Ankit Engineering	Mfg. of kitchen equipments utensils, pressure cooker, kitchenware, tableware and other allied products	10125
23	17D	M/s Shivjee Products Pvt. Ltd.	Mfg. of kitchen wares & household equipments	10125
24	17E	M/s Uma Metal	Mfg. of Readymade Garments	10125
25	18	Mr. Bhupesh Sachdeva	Modular Kitchens, Modular Furniture, Interior Works	4050
26	19	M/s Dalal Dupont Pvt. Ltd.	Deals in the mfg. & export of SS wire products and 3 saleable products	4050
27	20 & 21	M/s Vani Automotive Machinery & Tools	Machine and Machine parts	2700
28	22-27	Sh. Achyut Sharma & Sh. Anil Sharma	Job Work for Auto Components	900
29	24	M/s Chawla Textiles Pvt. Ltd.	Mfg. of Terry Towels on the latest and most advanced imported terry towel knitting machines	450
30	25	M/s MVL Automotive	Mfg., assembling & export of automobile spare parts	450
31	26	Mrs. Dhanna	Footwear including hawai slippers, canvas shoes, sports shoes	450
32	27	M/s Mk Enterprises	Mfg. of Corrugated Boxes	456
33	28	M/s Sai Vinay Industries	Mfg. of Automobile accessories	456
34	29	M/s Confidence Caps Crowns	Mfg. of Aluminium P.P Caps, printed sheets, crowns & allied packaging materials	456
35	30	M/s B.M. Composites Pvt. Ltd.	Mfg. of Fibre Glass Raw materials (Coated Chopped, Mat, Tissue and polyster film) for FRP Industry	450

S. No.	Plot No.	Name of allottee (S/Shri)	Name of project	Area in sqm.
37	31	M/s Aero Insulation India	Hot & Cold Insulation, Acoustic, Water Proofing, Plastic Piping & Glass Cutting	450
38	32	M/s Sounder Housewares Pvt. Ltd.	SS Kitchen ware, Utensils, Cutlery & other Allied products	450
39	33	Sh. Krishan Kumar Jindal	Plastic Injection Mouldings unit	450
40	34	M/s TJ Transline Pvt. Ltd.	Packaging/Assembling/Manufacturing unit of Electronic Devices etc.	450
41	35	M/s Kosu Rubber Moulders India	Automotive Rubber Components & Auto Parts	450
42	36	Mr. Pradeep Kumar	To set up the solar plant	450
43	37	M/s Tilak Raj Jain	Footwear including Hawai slippers, canvas shoes, sport shoes among other kinds of footwear (not safety)	450
44	38	Sh. Charanjit Singh (now allotted to M/s Deep Electrical Appliances Pvt. Ltd.	Auto Parts	1012.5
45	39	Sh. Satish Kumar Sethi	Rotary water tank & LDPE Powder	1012.5
46	40	Sh. Paramjit Singh, C/o Sh. Rajinder Jain, E-92, Preet Vihar, Delhi-92	SS Utensils	1012.5
47	41	M/s Golden Glass Works (P) Ltd., FTC	Solar Products	1012.5
48	42	Sh. Akash Deep	Readymade Garments	1012.5
49	43	Sh. Deepak Kumar Jain	Shoe Sole	[illegible]
50	44	Varun Hardware (P) Ltd.	Stainless steel products	11250
51	45	M/s Yash World Industries Pvt. Ltd.	Stainless Steel Utensils & Home [illegible] Items	11250
52	46, 47	Rest Press (P) Ltd.	Printing of Books	22500
53	48	M/s Kash Industries (P) Ltd., Rajasthani Udyog Nagar, G.T. Karnal Road, Delhi-110033 (Under Prestigious Category)	All Types of Acrylic Filament Yarn	11233.88

S. N.	Plot no.	Name of allottee (M/S.)	Name of project	Area in Sqm.
54	50	M/s Rounded Braking (India) (P) Pvt. Ltd.	Disc Brake Pads	1750
55	51	M/s Bobsey Polymers & [illegible] (P) Ltd.	Cooling Tower [illegible] FRP Items, Blowers	1750
56	52	M/s [illegible] Synergies (P) Ltd.	Automotive accessories	1250
57	53	Sh. Syed Mohammed Rashid	[illegible] Garments	1012.5
58	54	M/s [illegible] Pvt. Ltd.	Mfg. of SS kitchenware, utensils, cutlery & other allied products	1012.5
59	55	Sh. [illegible]	Mfg. of all types of plastic products of remote control, computer devices, LEDS, automobile parts etc	1012.5
60	56	M/s [illegible] Plastic Manufacturers	Mfg. of printed corrugated boxes	1012.5
61	57	M/s [illegible] Rubber & Plastic Industries	Plastic goods, tiles, ferrous & non ferrous metals, chemicals, raw rubber & hardware goods	1012.5
62	58	M/s Shree Balaji Labels	Printing & Packaging unit	1012.5
63	59	M/s [illegible] Trading Company	Mfg. of high quality car mats for different vehicles	1012.5
64	60	M/s Delhi Test House, TTL issued in F/o Sh. Pawan Kumar On dated 21.09.2018	Technical testing, analysis & inspection of building material, electricals goods & appliances, environmental analysis, food products, water etc.	1012.5
65	61	Mr. [illegible] Singh	Mfg. of all type of plastic products like toys, sports items, parts & accessories	1012.5
66	62	Mrs. [illegible] Jindal	Mfg. of plastic dana, PVC, TPR, [illegible], rubber compounds, footwear, [illegible] footwear [illegible] & parts of footwears	1012.5
67	62A	M/s Shree Balaji Printers	Printing & packaging unit	1012.5
68	63	[illegible] Impotech (P) Ltd.	Automotive Accessories	1250
69	64	[illegible] International Ltd.	Compressors, [illegible], etc.	1250
70	65	M/s [illegible] Brakes India Pvt. Ltd.	Disc brake pads	1250
71	49 & 66	M/s [illegible] Automotive Components (P) Ltd	Brake Parts	2500
73	67	Sh. [illegible] (change in const. was allowed in f/o M/s [illegible] Engineering	Software Development	1500
74	68	M/s [illegible] Singhal	Mfg. & export all kinds of bags, whether fabric, embroideries, pouches, small & big berry bags, ladies bags, etc.	1500
75	69	Sh. [illegible] & Mrs. [illegible] (Partners), Tech Solution, TTL was in f/o M/s [illegible] Pvt. Ltd. vide our letter dated 07.04.17	Tablets & Capsules	1500
76	70	Sh. [illegible] Malhotra	[illegible] Garments	1800
77	71	M/s Sai Karma	Stainless Steel [illegible]	1800
78	72	M/s [illegible] India Pvt. Ltd.	Pharmaceutical wet injection the company will design its unit as per the guidelines of [illegible] & GMP	1800
79	74	M/s AVG Logistics Pvt. Ltd., change of allotment from M/s AVG Logistics Pvt. Ltd. to M/s [illegible] Pvt. Ltd. on 04.09.17	Workshop for vehicle repair & maintenance	1800
80	75	M/s [illegible] Industries Pvt Ltd	Mfg. of zips, fasteners, tapes, tailoring accessories, polyester cotton thread, buttons	1800
81	76	M/s [illegible] & Graphics Pvt. Ltd.	Printing inks	1800
82	77	M/s [illegible] Auto world	Mfg. of high quality car mats for different vehicles	1800
83	78	M/s [illegible] Labs Ltd.	Mfg. [illegible] of Ayurvedic Medicines	500
84	79	[illegible]	Pet containers	500
85	80	Mr. [illegible]	Knit [illegible] Home textiles/Garments	500
86	81	M/s [illegible]	Mfg. of floor wiper, floor cleaner, grass broom, scrub sponge stainless steel scrub, mop, mopper cum wiper & moppers, and household products like plastic cloth clips, plastic garment hangers	500

S. N.	Plot no.	Name of allottee (M/s.)	Name of project	Area in Sqm.
87	82	M/s Sterne India Pvt. Ltd.	Print faces [illegible] Dry Injection, the company will design its units as per the guidelines of [illegible]	1630
88	83	Mr. Sudhir Kumar Gupta	Mfg. of Electrical & Home Appliances, solar items, its parts & accessories	1800
89	84	Gagan Gupta	Mfg. of Corrugated Boxes	1800
90	85	M/s Maruthi Exports Pvt. Ltd.	Mfg. of SS kitchenware, utensils, cutlery & other allied products	1800
91	86	M/s Shree Housewares Pvt. Ltd.	Mfg. of Cotton made-ups like carpets, rugs, bath mats, puffs etc.	1800
92	87	M/s Lighto Plast Industry	Automobile & Tractor Parts	1800
93	87	M/s Rajdhani Seeds Corporation	Processing, marketing and packing & exporting of high quality seeds	1800
94	89	M/s Gurcharan International	Automobile Parts & Accessories	1800
95	90	M/s Silverstone Grains Flex Pvt. Ltd.	Processing, marketing and packing & exporting of high quality seeds	1800
96	91	M/s [illegible] Enterprises	Plastic Moulding & metal [illegible]	1800
97	92	M/s Star Key Enterprises	Mfg. of Stainless Steel Utensils & Cutlery	1800
98	93-94	Vinay Auto (P) Ltd.	Auto Parts	8100
99	95	M/s Pankaj Polymer	Mfg. of PVC TPR, EVA, Rubber Compounds, Footwear soles, complete footwear	4050
100	96	M/s Kishan Overseas	Mfg. of steel utensils	4050
101	97	Sh. Rahul Sharma, B-206, Kanchan Park View 7, Raheja Estate, Kulupwadi, Borivali (East), Mumbai	Mfg. of Automobiles Components	4050
103	98-99	M/s [illegible] Pvt. Ltd.	[illegible]	8100
104	100	Maco Enterprises Pvt. Ltd.	Electrical & Electronic home appliances	4050
105	101	M/s [illegible] Packaging Industries Pvt. Ltd.	Mfg. of pharmaceutical packaging materials	4071.5
106	102-103	M/s Apple Print Pack Pvt. Ltd., D-73, [illegible] Industrial Area, [illegible] Road, [illegible]	Complete Packing Solutions	8100
107	104-105	Mr. Saurabh Kapoor & Gaurav Kapoor,	Car accessories viz. Door Visor, chrome attachment, [illegible] side beading bumper protector, window tints etc. [illegible]	8100
108	105	Kapoor Industries	Fabrication of commercial vehicles	4050
109	106	M/s [illegible] Cables & Conductor (P) Ltd.	H.T. Cables & H.T Conductor	4050
110	107-108, 175-76	M/s [illegible] Technologies (P) Ltd.	Flexible Packaging	16200
111	109-110	M/s [illegible] Drugs (P) Ltd.	Medicines Bulk Drugs	8100
112	111	Shri Bhagwan Gupta	Tooth brushes, household brushes	4050
113	112	Shri Bhagwan Gupta	Tooth brushes, household brushes	4050
114	113	K.G. Embroidery Mills Ltd.	Embroidered fabrics	4050
115	114	Vijay Kapur	Ready-made garments	4050
116	115	M/s Quality Industries	All type of home, electrical, kitchen appliances, solar equipments, solar panels, [illegible] electrical panel, street lights, LED lights & its allied products and parts thereof	4050
117	116	Mr. Vineet Bajaj	[illegible]	4050
118	117	[illegible]	[illegible] Goods	4050
119	118	[illegible] Electric Appliances	Electrical equipment & appliances	4050
120	119	M/s [illegible] International	[illegible]	4050
121	120-121	M/s [illegible] International Housewares Pvt. Ltd.	SS cutlery / Kitchenware	8100
122	122 & 124	[illegible] India Ltd.	[illegible] and specialty yarn	8100
123	125	[illegible]	[illegible] Specialty Yarn	4050
124	127	M/s [illegible] Pvt. Ltd.	Install one extruder of plastic line with cutting & sealing machine	4072.5
125	128	M/s [illegible] Home Appliances Pvt. Ltd.	Mfg. of electric [illegible], its parts, accessories & allied products etc.	4072.5
126	129	M/s [illegible] Housewares Pvt. Ltd.	Mfg. of Cotton Made-ups like carpets, rugs, bath mats, puffs etc.	4072.5
127	130	Mr. Subhash [illegible]	Mfg. of safety footwear	4072.5

S. No.	Plot No.	Name of Allottee (M/Sh.)	Name of project	Area in Sqm.
128	131	M/s Nikhil Home Furnishing Pvt. Ltd.	Mfg. of home furnishing made ups like readymade curtains, ready made cushions, table linen, bed linen, quilts etc	1012.5
129	132	M/s [illegible] Pvt. Ltd.	Mfg. of utensils of high quality	1012.5
130	133	Mr. Sumit Kumar Goyal	Electrical home appliances, spare parts & accessories including geysers, fans, heaters, chulhas & accessories thereof	1012.5
131	134	Mr. Vijay Kumar Verma	Mfg. of all types of artificial jewellery and for girls & women chains [illegible] & its accessories	1012.5
132	135	Sh. Om Prakash Aggarwal	Mfg. of labels etc.	1012.5
133	136	M/s [illegible] World Industries Pvt. Ltd.	Mfg. of SS Kitchenware Utensils, cutlery & other allied products	1012.5
134	137	Sh. Vineet Arora	Software development and data processing	1012.5
135	138	Mr. Rajneesh Verma	Mfg. of readymade garments	1012.5
136	139	Mr. Sidharth Aggarwal	All kinds of Road safety products	1012.5
137	140	M/s A.D. Graphics Pvt. Ltd.	Printing & Packaging unit Printed Labels, Stickers, Plates etc.	1012.5
138	141	M/s Packaging Solutions	Corrugated Boxes and printing	1012.5
139	142	Mrs. Davinder Kaur	Mfg. & packing of car care products	1012.5
140	143	M/s Arihant Printers	Design, computer plate making, printing machines, [illegible], finishing, binding etc.	1012.5
141	144	M/s Tanu Garments Pvt. Ltd.	Mfg. of exporting [illegible] products	1012.5
142	145	M/s Shree Venkatesh Industries India	Paper Conversion unit	1012.5
143	146	M/s Accent Art	Mfg. of LED lighting systems which can be used in advertising materials i.e. sign board, display panels etc.	1012.5
144	147	M/s Gee Square [illegible] Pvt. Ltd.	Mfg. of electricals panels & accessories	1012.5
145	148	Mrs. Manju Sharma	Readymade Garments	1012.5
146	149	M/s United Fire Equipments Pvt. Ltd.	Mfg. unit of complete fire safety equipment	1012.5
147	150	Miss Jigyasa Arora	To provide creative solution for designing & product profile for enhanced public acceptability	1012.5
148	151	M/s KDS Overseas	Plastic Moulding & Metal Fabricating	1012.5
149	152	Mr. Devinder Kumar	Stainless Steel utensils mfg. units	1012.5
150	153	M/s JP Plastic Industries India Pvt. Ltd.	Mfg. of plastic garment accessories	1012.5
151	154	Sh. Vinod Kumar Gupta	Mfg. of Corrugated Boxes	450
152	155	M/s [illegible] Infrastructure Pvt. Ltd.	Mfg. of Modular Furniture, Interior Panels & [illegible]	450
153	156	Sh. [illegible] Mehta	Mfg. of Adhesives & Chemicals [illegible] with modern technology	450
154	157	M/s Anmol Packaging	Corrugated Boxes and [illegible] printing	450
155	158	M/s Stitch [illegible]	Mfg. of Electronic automatic bag filling machines, bag closing machine, double thread chain stitch type bag closing machine, high speed chain stitch type bag closing machine, bag stackers, [illegible] bag stack loaders & belt conveyors	450
156	159	M/s Galaxy Houseware Products Pvt. Ltd.	Mfg. of SS Kitchenware, Utensils, Cutlery & other allied products	450
157	160	Mr. [illegible] Tuteja, Mr. [illegible] Tuteja	Mfg. & trading of all material related to interior & exterior designing, which included window blinds, wallpapers, [illegible] etc.	450
158	161	M/s Kapoor Packaging	Corrugated Boxes to be used as packaging material	450
159	162	M/s KD Graphics Pvt. Ltd	Printing & packaging unit printed labels, stickers, [illegible] etc.	450
160	163	Sh. [illegible] Kumar Agarwal	Business of Sole for footwear	450
161	164	M/s [illegible] Auto World	Mfg. of High Quality car mats for different vehicles, car mats under a reputed brand name [illegible]	450
162	165	M/s [illegible] Enterprises	Readymade Garments	450

S. No	Plot no.	Name of allottee (S/Sh.)	Name of project	Area in Sqm.
163	166	Mr. Deepak Goyal	Mfg. & value addition to furnishing fabric	450
164	167	Mr. Ajesh Pandit	Industrial marking machine to be used in industries for identification marking date on plant material, serial numbers, company logos, batch number etc.	450
165	168	Mr. Mohit Garg, Smt. Anita Garg (LIC was allowed in favour of M/s Ganpati Herbals on 07.03.2018	IT company which will provide IT SOLUTIONS in NEW TECHNOLOGIES LIKE ... SHAREPOINT, ANGULAR JS, Node JS etc.	450
166	169	M/s Sadhna International	Stainless Steel Utensils for export	450
167	170	M/s Capital Wire Industries, RTL issued in favour of Abhijeet Singh ... dated 19.09.2018	Pertaining Wires & Wire Products	450
168	171	Mr. Jaideep Singh Jamwal, RTL issued in favour of Sh. Anurag Gupta on dated 05.07.2018	Kitchen Home Products	450
169	172	M/s RGD Steelfab Pvt. Ltd.	Mfg. of SS kitchenware, Utensils, Cutlery & other allied products	450
170	173	M/s Excellent Houseware Pvt. Ltd.	Mfg. of SS Kitchenware, Utensils, Cutlery & other allied products	450
171	174	M/s Megha Apparel	Mfg of SS utensils	450
172	175	Mr. Rakesh Kapoor	Mfg. of fire safety equipments	450
173	176	M/s Sonar Cotsyn Pvt. Ltd. (CP 1-[illegible])	Shifting of textile unit (knitting unit alongwith expansion in current machinery)	450
174	177	M/s Star Enterprises	Mfg. of Hawai Slippers along with different kind of footwear i.e. [illegible]	450
175	178	Mr. [illegible] Singh	Cutting of wire rod coils in required size of length, grinding & polishing of round bars, bars & cutting of shafts	450
176	179	Mr. Ajay Kumar Goyal	Mfg. of Hardware Products	450
177	180	M/s Shivam Packaging Enterprises	Mfg. of Corrugated Carton Boxes & Roll Paper	450
178	181	Mr. Deepak Bansal	Mfg. of Communication Equipment	450
179	182	Mr. Rakesh Garg	Mfg. of High Quality & Low Cost PVC pipe by using the modern & latest technology	450
180	183	M/s Shakti Enterprises	Mfg. of PTMT Bath accessories i.e. flushing cisterns, toilet seat covers & stainless steel sinks, health faucet, bottle trap, waste [illegible], waste coupling, jet spray, flow [illegible] ring	450
181	184	Mr. Raman Bala, Mr. Harish Chander Bansal	All types of Plastic Products like toys, sports items, its parts and accessories which is carried out by injection moulding machine	450
182	185	M/s Mega Packaging	Mfg. of Printed Cardboard & Boxes	450
183	186	Sumit Kumar Jain	Project involves digital marketing, web design & development services, web app development and other services like SEO, PPC, SMM.	450
184	187	Mr. Krishan Gopal Sharma	Electrical & Heating Elements	450
185	188	Mr. Vinay Gupta	All kinds of Food items	450
186	189	Ankit Sharma	Auto Parts	450
187	190	Ms Heena	All types of Auto Parts	450
188	191	Mr. Anil Kumar Nagpal	Stainless Steel utensils mfg. units	450
189	192	Mr. Amar Narang	Stainless Steel utensils mfg. units	450
190	193	M/s Ayat Motors India Pvt. Ltd.	Mfg. of spare parts of two wheelers and four wheelers	450
191	194	Mr. Sharad Jain	Mfg. of Face masks, shoe covers and caps used for surgical & medical purposes	450
192	195	Mr. Manish Jain	Mfg. of Gold, Silver, Diamond & All Kind Jewellery	450
193	196	Smt. Santosh Devi	Mfg. of Corrugated Boxes	450
194	197	Mr. Ashish Gupta	Mfg. of Corrugated Boxes	450
195	198	M/s A.M. Overseas Pvt. Ltd.	Auto parts, insulated auto parts & other allied products etc.	450
196	[illegible]	Mr. Vinay Kumar Aggarwal	Corrugated Boxes	450
197	203	M/s Shakti Industries	Stainless Steel Utensils	450
198	206	Mr. Himanshu Khosla	Mfg. of Corrugated Boxes	450
199				

S. N.	Plot no.	Name of allottee (S/Sh.)	Name of project	Area in Sqm.
200	202	M/s. Kiran Bala Parmar, Mr. Ashish Singh Mehta	Mfg. of Auto Parts	450
201	203	M/s. Kiran Bala Parmar, Mr. Ashish Singh Mehta	Mfg. of Auto Parts	450
202	204	Mr. Harpal Goel	Mfg. & trading of all types of speakers, sound appliances, surround sound, mics etc.	450
203	205	Mr. Mahesh Kumar Chandwani	Mfg. of Stainless Steel Utensils (Kitchenware)	450
204	206	Mr. Naresh Kumar Gaba	Mfg. Unit for auto products (Car care product)	450
205	207	M/s Pundit Polymer	Plastic Processing Unit	450
206	208	M/s Ramona Enterprises	Mfg. of Auto Parts	450
207	209	Sarita Jain	Mfg. of LPG Gas Stove Parts (Burner)	450
208	210	M/s Anamika Group	Mfg. unit for electrical home appliances i.e. juicers, mixer & grinder & juicer mixer & fruit & vegetable purifiers etc.	450
209	211	M/s Shankar Service Stations & Leather Works	Service Station & Charter Bus...	450
210	212	Mr. Rajesh Gupta	LPG Stoves	450
211	213	Mr. Dheeraj Bhardwaj	Automobile & Parts	450
212	214	Mr. Piyush Jain	Mfg. of Electrical Home Appliances	450
213	216	M/s Tecnoo Plast	Plastic injection moulding & blow moulding unit	450
214	217	M/s Affordable Enterprises	Mfg. of all kinds of SS Utensils, Kitchenware, household items	450
215	218	Mr. Abhishek Jaiswal	Digital Printing of Textiles	450
216	219	M/s Rajinder Industries	Automotive Plastic Parts & Accessories	450
217	220	Mr. Saurabh Jain	All kinds of Corrugated Boxes (Printed & Plain), Packaging products & other allied products etc.	450
218	221	Sh. Mohit Bansal	Readymade Garments & its Accessories	450
219	222	Mr. Dharmendra Chawla	Corrugated Boxes	450
220	223	Mr. Himanshu Chawla	Corrugated Boxes	450
221	223	M/s RK Composites Pvt. Ltd.	Mfg. of fiberglass and glass reinforced material	450
222	224	M/s Sunita Prasad	Mfg. of Printed Corrugated Boxes	450
223	225	M/s Prabhu Works Pvt. Ltd.	Knitted Home Furnishings	450
224	226	Mr. Kapil Wadhwa	Setting up a State of Art Technology mfg. unit for mfg. of home furnishing products	450
225	227	Mr. Sanjeev Dhingra	Stainless Steel utensils, Kitchenware goods etc.	450
226	228	M/s Vision Marketing Pvt. Ltd.	Build a facility where we can build any kind of the vending machine or any other equipment from raw metal form to finished machine	450
227	229	M/s Maa Padmawati Steels Pvt. Ltd.	Mfg. of utensils of high quality and the very wide range	450
228	230	M/s Ankur Aggarwal	All kinds of Road safety products	450
229	231	Mr. Mayank Gupta	Mfg. of Corrugated Boxes	450
230	232	Mr. Bandi Jain	To manufacture, Assemble & Fabricate Steel, Glass & Aluminium decorative items & parts	450
231	233	Mr. Manish Aggarwal	All kinds of food items prepared from Guna & other agriculture food products	450
49	212 A	M/s Bhiwadi Stainless Steel Cluster Services (P) Ltd.	Common Facilities for R&D, testing and laboratory facilities for Hub and Spoke Units.	4050

PRESENT STATUS OF PLOTS IN RESPECT OF INDUSTRIAL ESTATE, - KUNDLI. SECTOR-56 Phase-IV

S.N.	Plot no.	Name of allottee	Name of project	Area in Sqm.
1	1	Mohan Lal Singhal	Readymade Garments	1012.5
2	2	M.R. Vikash Gupta, Vikrant Garg & Sh. Bicky Gupta,	Cattle / Poultry Feed	1012.5
3	3	M/s Simrose Infracon (P) ltd.	Readymade Garments	1012.5
4	4	Star Metaware India P Ltd. CIC-Family	SS Utensils	1012.5
5	5	M/s Ajitnath Utensils Pvt. Ltd.	SS Utensils	1012.5
6	6	M/s Blue Star Nutrosantra Pvt. Ltd.	Nutraceuticals & Ayurvedic Medicines	450
7	7	M/s KG Alto Inds.	Jewellery	450
8	8	Naveen Aggarwal	Furniture (Non Wood)	450
9	9	M/s Pinewald Fabricators Pvt. Ltd.	Aluminium & Steel Fabrication	450
10	10	Neeraj Gauwer	Corrugated Card Board	450
11	11	Neeraj Gupta	Aut & Machinery Part	450
12	12	Parasnath Barkewell (P) Ltd.	Iron & Steel Fabrication	450
13	13	Pardeep Kumar Jain	Printing Stationery	450
14	14	Premium Creations (P) Ltd./M/s Gautam Print Pack Pvt. Ltd.	Computrized Embroidery	450
15	15	R.K. Engineer Works	Air Blower	450
	15-A	M/s Alfa Therm Limited		
16	16	M/s Alvi Storage System Pvt. Ltd.	M/g. of all kinds of Steel Racks, Channels, Trays & Shelves etc.	450
17	17	Sh. Parvesh Kumar Vohra	Ready to wear apparels	450
18	18	Nax Switch Boards Pvt. Ltd.	Electrical control panel	450
19	19	M/s Mahadev Print Pack Pvt. Ltd.	Gears For Tractors	450
20	20	Rajeev Dabas	SS Kitchenware Table ware	450
21	21	Rajeev Singhu	Stat/Hosery Items	450
22	22	Rakesh Girhotra	Press Parts Elect. Items	450
23	23	Rakesh Kumar Bansal	Corrugated Boxes	450
24	24	Suresh Malik	EVA Sleepers	450
25	25	M/s Blackstone Engineering Pvt. Ltd.	Doormats	450
26	26	Ajay Kumar	Conduit Pipes	450
27	27	DCH Power Systems (P) Ltd.	Electric Starter	450
28	28	M/s Bansal Control Devices Pvt. Ltd.	Electric starters & panels	450
29	29	Sagar Chand Jain	Utensils & inclusion of m/g. of Pet Flakes & Pelletising & Plastic Pelletizing	450
30	30	Sandeep Kumar	Readymade Garments	450
31	31	M/s Bhushi Fashions on dated	Readymade Garments	450
32	32	M/s Swarup Mechanical India (P) ltd.	SS Kitchenware	450
33	33	Smt. Ridhi Bajaj & Smt. Anju Bala Kalra	M/g. of Aluminium & SS Utensils	450
34	34	AA Multipackaging Pvt. Ltd. CIC	Fibre Carding and TI Items	450
35	35	M/s Swastik Perfect Pack Pvt. Ltd.	Appliances	450
36	36	M/s Bhupinder Industries	M/g. of Light Machines	450
37	37	Shyam Sunder Saini	Sparts & Active Wears	450
38	38	M/s KPS Electrical & Allied Products Pvt. Ltd.	Computrized Auto Locamons to Sheet Metal Components	450

S.N.	Plot no.	Name of allottee	Name of project	Area in Sqm.
39	39	Sukesh Arora	Tools Dies etc.	450
40	40	Sunil Dhawan	Bakelite Handles and knobs	450
41	41	Sunil Kumar Garg	Corrugated Boxes	450
42	42	M/s Padmavati Fashion	Herbal Medicines/changed to Embroidery on Lady Suits, Sarles, Textiles products	450
43	43	Vikash Bhatia	Readymade Garments	450
44	44	M/s Micromax Cables Pvt. Ltd	CPPE Sheets & Pipes	450
45	45	Vipul Sehgal	Nut Bolts	450
46	46	M/s S.M. Therm Pvt. Ltd.	M/g. Thermo Boilers	450
47	47	Sh. Rahul	Electrical & Electronic Products testing lab	450
48	48	Atul Gupta	Embroidery	450
49	49	Sh. Ajay kumar Sh. Balvinder kumar	Herbal Medical Products	450
50	50	Sh. Surender Gupta	EVA leather, PVC Footwear	450
51	51	Sh. Surender Gupta	various addition in furnishing fabric	450
52	52	M/s. Ruby Bansal	SS Utensils	450
53	53	M/s Forcefin Technologies Pvt. Ltd.	Ice Blocks	1012.5
54	54	Sanjay Choudhary	Plastic	1012.5
55	55	Selasar Imaging Systems	Text Printing	1012.5
56	56	Amit Kumar, FTL issued in f/o M/s G.N Industries on dated 09.10.2018	Plastic Products	1012.5
57	57	Parekh Electricals Pvt. Ltd. C/C	PVC Pipe & Wire	1012.5
58	58	Ravinder Kumar/M/s Print Pack Pvt. Ltd.	Printing press	1012.5
		FTL issued in f/o M/s MS Printpack Pvt. Ltd.	Offset printing	
59	59	Sh. Sat Narain Aggarwal, Smt. Sunita Aggarwal &Sh. Shashank Aggarwal	Readymade Garments	1012.5
60	60	M/s Selected Products Pvt. Ltd.	PVC Granules and Footwears	1012.5
61	61	Ramson Apparel Aids (P) Ltd.	Garment accessories	1012.5
62	62	M/s Diamond Collection Pvt. Ltd.	Cotton Polyster yarn	1012.5
63	63	Ramesh Chand Goel	EVA Footwears	1012.5
64	64	Rakesh Kumar	Corrugated boxes	1012.5
65	65	M/s Golden Multi Products Pvt. Ltd.	Mfg. & processing of Footwear, Footwear Sole, Uppers & allied products	1012.5
66	66	Rajinder Ispat (P) Ltd.	MS Pipes	1012.5
67	67	Anita Diaries	Binding & Printing of diaries	1012.5
68	68	Radhe Kishan Mittal	Multilayer polythine sheets	1012.5

S.N.	Plot no.	Name of allottee	Name of project	Area in Sqm.
69	69	R. G. Creations(FTI ISSUED IN FAVOR OF Sh. Ankit Agarwal, Sh. Radhey Mohan Agarwal & Smt. Madhu Agarwal	Jobwork of embroidery	1012.5
70	70	M/s R.G Buildimpex Pvt. Ltd.	M/g of Electrical Goods	1012.5
71	71	M/s Natural Home Furnishings Pvt. Ltd.	Home Furnishing Products	1012.5
72	72	Shya Ram Engg. (P) Ltd.	Embroidery work	1012.5
73	73	Pawan Kumar Garg	Paper and Board conversion	1012.5
74	74	Parishi Lifesciences	Medical Formulations	1012.5
75	75	Smt. Swati Rawal, Rachna Rawal & Deepika Rawal	Fire Equipments/Bathroom Hardware &Sanitary Products	1012.5
76	76	M/s Kirti Fashions Pvt. Ltd., FTI Issued in f/o M/s Kirti Fashions Pvt. Ltd.	Hand Bags	1012.5
77	77	Orangetree Infosolution (P) Ltd.	IT's Software	1012.5
78	78	Nirupma Kapoor	Embroidery on fabrics	1012.5
79	79	Usha Devi Jindal	Readymade Garments	1012.5
80	80	Aurodio Rubbers (P) Ltd.	Emulsions & Binders	1012.5
81	81	Aar Emm Textile (P) Ltd.	Woven Labels	1012.5
82	82	Anup Kumar Gupta	Building hardware	1012.5
83	83	Jain Labels (P) Ltd.	Woven Labels	1012.5
84	84	Amit Jain, M/s JTC Tea Industries (P) Ltd.	Blending / tea	1012.5
85	85	Abhi Creations	Garments	1012.5
86	86	I Life Medical Devices (P) Ltd.	IV Channels & 3 ways stop cock	1012.5
87	87	M/s Today Enterprises.	M/g. of Cotton coated, Fabric PU,PVC, Fatan,	1012.5
88	88	M/s Plastic Components Industries	M/g. of Plastic Auto Parts	1012.5
89	89	M/s Kanishka Vinyl Pvt. Ltd.	M/g. Synthetic Resin, PVC, Polymers & PVC Chemicals	1012.5
90	90	MRG Furniture Components Ltd.	M/g of Aluminium Alloys	1012.5
91	91	Sh. Luv Nagpal & Sh. Mahender Nagpal	Garments	1012.5
92	92	M/s AMG Food Products Pvt. Ltd.	Dehydrated Vegitables & Spices	1012.5
93	93 &94	M/s DK Apparels & Fashion Pvt. Ltd.	M/g. Readymade Garments	2025
94	95	Sh. Rakesh Kumar Gupta	Plastic Tubes Rotogravure Prints	1012.5
95	96	M/s Libra Fashion Pt. Ltd.	Fashion Footwears	1012.5
96	96A	M/s Satyash Steel Pvt. Ltd.	Stainless Steel & SS Pressure Cookers	3864.6
97	96-B & 96-C	M/s Printman Associates (P) Ltd.	Printing and m/g of Calander, Gift Item, books	7729

PRESENT STATUS OF PLOTS IN RESPECT OF INDUSTRI
SECTOR-56 Phase-V

S.N.	Plot no.	Name of allottee	Address	Name of project
1	99	96E	Sh. Rahul Sharma	Auto Mobiles Components
2	101	97	NIFTEM	College
3	102	98	M/s Ultratec Industries (NRI)	Bi- Mettalic wire Enameled wires , AC Alloy
4	103	99	M/s Sanat Priters	Injection moulding products
5	104	100	M/s Sterile India Pvt. Ltd.	Pharmaceutical drug stritization unit
6	105	101	M/s Stainley India	Mfg. Of S.S Utensils
7	106	102	M/s Nitya International	Bed Covers
8	107	103	Sh. Sunil Goyal M/s Happy Mahine Tools	Mfg. of auto parts (Machines & Finishing)
9	108	104	M/s Beta Industrial Products, Partners	Mfg. of unit of Automobile parts for Engine Mounting
10	109	105	Sh. Amit Chopra Partner	Printing and New Papers
11	110	106	M/s Parveen Industries (P) Ltd.	Manufacturing of Oil Field Eqpt Hi-Tech
12	111	107	M/s Nancy Krafts (P) Ltd.	Mfg. & Exports of Hi Fashions Ladises suit
13		108	M/s AMF Engg. (P) Ltd.	Engg. Products
14	112	109	Smt. Kamlesh Gupta	Flexible Packing unit
15	113	110	M/s Balraj Auto Parts (P) Ltd.	Auto Parts
16	114	111-112	M/s Bharat Foils (P) Ltd.	Equip. telecome, power generation & milling machines
17	115	113	M/s DLK Design (P) Ltd.	Copper wire & copper applications

18	116	114	M/s Garima Plastic Industries,	Plastic sheets, roads & Industrial parts
19	117	115	Sh. Sukhdev Singh Malhi	Engineering goods
20	118	116-17	Sabharwari Food Industriesc (P) Ltd.	Cold Storage
21		118	M/s Jubin Developers & Promoters (P) Ltd.	AC Pressure Pipes & Rigid PVC Pipes
22	120	118A	M/s Lancer packers (P) Ltd.	Pet Bvottles & tin containers
23	121	118B	Kohinoor Life Style (P) Ltd.	Modular Office
24	122	118-C	Sh. Vikas Aggarwal	Mfg. of medical devices focused on export market
25	123	118D	M/s M.B. Deco International	Mfg. of Home Appliances viz. Gyser, Celing Fans & other allied elactical fittings
26	124	118-E	M/s Mangla Appearles Pvt. Ltd,	High Fashions Garments
27	125	118F	M/s Paras Offset (P) Ltd.	High Quality Offset Printing
28	126	118G	M/s Sterile API Pvt. Ltd.	changed to Pharmaceutical
29	127	118HI	Samridhi Biotech (P) Ltd.	Milk Processing unit
30	128	119	FTL issued in f/o M/s Surya Masterbatches Pvt. Ltd.	Mosaic tiles & Colored Tiles
31	129	120	M/s T-Three Impex Pvt. Ltd.	Mfg. of Corrugated Kraft Paper, Carton/Boxes & other Paper Packaging

32	130	121	M/s Sun Auto Crafts Pvt. Ltd., change of name was allowed in f/o M/s VMP Houseware Pvt. Ltd. vide letter dated 06.05.13	Manufacturing of Auto Parts
33			FTL issued in f/o M/s VMP Houseware Pvt. Ltd.	SS Kitchenware, Table Cutlery etc.
34	131	122	M/s Suraj Cables	Mfg. of ABC Cables
35	132	123	Sh. Surender Kr. Goel	Mfg. of Zin Oxide
36	133	124	f M/s Srinivasa Govinda Jee Inds. Pvt. Ltd.	Mfg. of Power cables
37	134	125	M/s Rinox Railings	Mfg. of Stainless Steel Handrail Components, Glass fitting its & other hardware items
38	135	126	M/s acmas technologies Pvt. Ltd.	Mfg. of EVA Compound and
39	136	127	M/s Shashi Dying (P) Ltd.	Mfg. of Readymade Garments
40	137	128	Mr. Ajit Singh Pahuja	Cutting-edge hardware servers possessing multi-core processors
41	138	129	Mr. Tarun Maheshwari	Set up a stainless steel utensils mfg. unit
42	139	130	PGS Exim (P) Ltd.	Mfg. & export of Readymade Garments
43	140	131	M/s Smoto Industries Pvt. Ltd.	mfg. of Printing & Publishing
44	141	132	M/s Skan Cables & Wires (P) Ltd./FTL issued in f/o M/s Dee kay Printers	Mfg. of PVC Cables

PRESENT STATUS OF PLOTS IN RESPECT OF INDUSTRIAL ESTATE,EHTP / KUNDLI, PHASE-V, SECTOR-56

Sr. No	Plot no.	Name /adress of allottee (S/sh.)	Name of project	Area in (Sqm.)
	137	Mr. Tarun	Injection moulded plastic products, s the name implies it for mfg. plastic moulding goods with the help of moulds, injection moulding machine will inject molten plastic in moulds, so that ti will take the sahep of moulds, tool room will be setup for making and repair of moulds	1800
	138	Mrs. Sarbjeet Aggarwal	LPG stoves	1800
	139	Mrs. Sangita Jain	Paper based items like tarboos, post print facilities, mini print station, FFS & FLOW WRAP PACKAGING FACITY WITH STATE OF THE ART CONTEMPORARY MACHINES	1800
	140	M/s Paras Products	Footwear, Footwear Sole, Footwear accessories & allied products	1800
	141	M/s GHA Food Products	Suji Toast (Rusk) production unit	1800
1	142	Mrs. Bindia Sharma	Importation Technology and TESmjoration	1800
	143 & 144	M/s JVTR Industries,	Networking Cable for IT industries	3600
	145,	M/s HS Polymers Pvt. Ltd.,	Mfg. of PVC, TPR, EVA, Rubber Compounds, Footwear Soles, Complete Footwears & its accessories and parts of footwear	1800
	146	Sh. Abhishek Jain,	Bread , Biscuits & other RTE Food Products	1600
	147	M/s Continental Cap's Crowns	Mfg. of aluminium PP caps, printed labels, cartoons and allied packaging materials	1800
2	148	M/s Gertus Electrical & Electronics (P) Ltd.C-	Transformer and electronic Components meter boxes ext.	800
2	149	Sh. Vijay Pal Garg	Development of Software & Other	1800
	150	Sh. Tarun Maheshwari	Stainless Steel Untensils mfg. units	1800
3	151	Sh. Ashok Kumar Gupta	Mfg. of Coilsn & Wire Wound Potentiometers, presets & switches	1800
4	152	M/s Arara Printtech, Prop. Kama	Mfg. of Electronic Components/ Devices, Printed Circuits Board	1600
5	156	Bimsal Engineering Pvt. Ltd.	F-99, Rajput Nagar, Pt I, New Delhi - 24	1800
	157	M/s Aurelia Medical Pvt. Ltd.	Mfg of orthopedic Implants & instruments such as mini fragment wire lock system	1800

Sr. No	Plot no.	Name /adress of allottee (S/sh.)	Name of project	Area in (Sqm.)
7	158	Elegant Electronic Pvt. Ltd.	Mfg. of Power Conditioning Equipment's Like UPS , PIU	1800
8	159	M/s Shree Mahalaxmi Transpvt Pvt. Ltd.,	Cables	1800
9	160	Radhika Gupta ,14, Mall Road, Karnal-13200' (Hr.)	Software Development	1800
10	161	M/s TCL Monitors Pvt. Ltd,	M/g of Networking instrumentations Cables	1800
11	162	Sh. Ankit Goel	Mfg. of BTS Installation Material & R.F Components	1800
13	167-168	Sh. Mahendra Nath Goel,	Vehicle Electronic & Diagnostics	3600
	169	M/s J.B. Polymers	Water tank & PVC pipes	1800
	170	M/s Orient Multiproducts Worldwide Pvt. Ltd.	Mfg. of PVC/WPC Ceiling & Wall Decoration Tiles	1800
	171	M/s Powertech Switchgears India Pvt. Ltd.	Electrical Switchgears & Penals	450
	172	M/s Max Engineering & Automation Pvt. Ltd.	Electrical Switchgears & Penals	450
14	173	Shri Mohan Barild Tech Pvt. Ltd	ITES Banking Financia, Services & Insurance Technology	450
15	174	Agrim Jain	IT & IT Enables Services	450
16	175	M/s Jagmag Overseas Pvt. Ltd.	Mfg. of Power supplies to Computers (UPS) etc.	450
17	176	M/s Consortium Hi-Tech (P) Limited	IT & IT Enabled Services & PCB	450
18	177	Arpit Jindal, S/o Dinesh Jinda.,	Information Technology & ITES Software Development & BPO	450
19	178	Sh. Ashok Kumar Sukhija	UPS(Uninterrupted Power Supply)	450
20	179	Sh. Kapil Chawla,	Software Developenent, data peocessing , Web site services Hardware support centre	450
21	180	M/s Audio Visual Digital Systems,	Mfg. of Indicator Pannel Incorporating LED or LCD	450
22	181	Martin Behl	Mfg. of connection Assemblies & Cable Harnessing	450
	182	M/s ShumkaCables Pvt. Ltd.	Mfg. of all kinds of wores & cables & allied products etc.	450
23	183	Babita Dhingra,	Mfg. of Electronic Components	450
24	184	Neeti Garg & Sh. Parveen Garg	Mfg. of Architectural Process Outsourcing Engg. & Design.	450
25	185	Sh. Brij Pal Choudhary	Software Development, BPO Centre & Manufacturing of computers Cabinets	450
26	186	M/s Concord Transducers & Instruments	Mfg. of Pyroelectric Ceramics, Devices & Instruments ,-	450

Sr. No	Plot no.	Name /adress of allottee (S/sh.)	Name of project	Area in (Sqm.)
27	187	M/s Crestech Software Systems Pvt. Ltd.C-4/20, Model Town-III, Delhi-110 009	IT & IT Enabled Services	450
28	188	M/s DB Communication, 38, Arya Samaj Mandir Market, Hissar	Mfg. Electronics Components/Devices	450
29	189	Sh. Deepak Bawejа	IT Enable Services	450
30	190	M/s Elektromantics	Mfg. of Electronics Components/ Devices	450
		Gurdeep Malhotra	Telecommunication & Electronics Panels	
31	191	M/S Gurbir Malhotra	Mfg. of Electronics Components	450
32	192	Protec Electronics	Communication Equipment	450
33	193	Mr. Gourav Salh	Offset Printing & Advertising	450
33	194	MV Systech (P) Ltd.	PVC Wire & Cables	450
34	195	Sh. Sultan Singh Jain,	Mfg. of. Uninterrupted Power Supplies & Assemblies of Computer PC Case	450
35	196	Harish Goyal, S/o Sh. Amit Lal Goya.	Mfg. of Networking Cable & Related Accessories	450
36	197	Hitesh Data Processing	IT/IT Enabled Services	450
37	198	M/s RTL Solutions Partners Sh. Lalit Gupta & Tarun Gupta	Software & Web site developments	450
38	199	M/s Parswa Systems (P) Limite	Disposable Paper Products	450
39	200	M/s Jiva Infotech	Information Technology & ITES BPO Software Solution, Call Centre	450
40	201	Sh. Kapil Wadhwa	Mfg. of Computers Assembling Unit	450
45	202	M/s Kaks Financial & Management Consultats Pvt. Ltd.	IT & IT Enabled Services	450
46	203	Kamal Kumar Gupta	Computer Hardware	450
47	204	Sh. Pawan Kataria, S/o Sh. J.L. Kataria	Manufacturing and Assembling of Computer Devices	450
48	205	M/s Kabir Electronics	Mfg. of Electronics Components Devices and Power supply	450
49	206	M/s Kaushik Enterprise	Mfg. of Electronics Devices	450
50	207	Sh. Lalit Gudeja , s/o Sh. Krishan Chand	Software Development (Data Base Application & Web development	450
51	208	M/s Law Pacs India (P) Ltd.	Applications Software & legal data base/Mfg. of Auto Accessories, such as Car chargers, direct battery mobile chargers, LED Foot Lights etc.	450
	2091	M/s Adwel Arts Pvt. Ltd.		450
52	210	M/s Ultimate Tech Infra Pvt. Ltd.	Information Technology Services & Information Technology, Enabled Services.	450
53	211	M/s MC Softtech (P) Ltd.	Electronics Goods/Computer Peripherals	450
54	212	Madhu Asia, 2650, Sadar Thana Road, Delhi-6	Mfg. of. Uninterrupted Power Supplies	450
55	213	Sh. Malkeet Singh	Mfg. Of Computer Work Station for Soft Technologies & other Allied products	450

Sr. No	Plot no.	Name /Address of allottee (S/sh.)	Name of project	Area in (Sqm.)
56	214	Sh. Ramesh Kumar Prop. M/s GBC Softwares	Development of all Types of soft ware & other allied products	450
57	215	M/s RVA Infotech Pvt. Ltd.	Mfg of P.C Board	450
58	216	Mrs. Mehar Nankani,	Data Display Monitor	450
59	217	M/s Milestone Telecom System,	Mfg. of Telecom Hardware/Software products	450
60	218	Sh. Deepak Goyal	IT Related Services & Call Centre	450
	219	Mr. Rajinder Gupta	Glass Laboratory ware	450
61	220	Sh. Mohit Vohra	Mfg. of Populated PCB Connector & Cable Assemblies for Computer & Tele Com Applications	450
62	221	Mrs. Susheela Chadhan	Mfg. of Switch Mode Power Supplies & its Accessories	450
63	222	Sh. Naveen Garg	Mfg. of Wires & cables for IT Industries	450
	235	Smt. Leena Dhingra, Sh. Sarvjeet Singh	Plastic Moulding & Meta. Fabricating	450
64	236	Sh. Naveen Kumar, S/o Sh. Bhim Singh	Mfg. of Optical Glass Monitor Filter	450
65	237	M/s Bright Star Sanitation & Computers Prop.	Mfg. of Computers Consumables, CD Rooms etc.	450
66	238	Nitin Gupta, W2-12, Ratan Park, Opp. KDM Nagar, ND-15	Networking Cables & related accessories	450
67	239	Mr. Hebra Bhushan Gupta	Mfg. of Footwear Soles, Complete Footwears PVC, tpr, eve, Rubber Compounds, its accessories & parts of footwears with some processed raw materials	450
68	240	M/s Pack Style	Mfg. of LED Printers, Diodes Thyristors & Net Working Cables	450
	241	Mr. Ashok Luthra	Mfg. of Orthopedic Implants & Instruments	450
	242	M/s Medicrest Corporation	Mfg. of all Kinds of Medical Implants & Instruments etc.	450
69	243	Passive Networking India	M'g. Computers & Software Development	450
70	244	Priyanka Aggarwal	M'g. of SMPS & UPS	450
	245	M/s Sara Printing & Advertising Co.	Offset Printing & Advertising	450
	246 (Plot)	Mr. Ram Kishan Sahi	Offset Printing & Advertising	450
	247	Sh. Rakesh Pahuja		450
72	248	M/s R.K Electronics	M'g. of printed Circuits Board for Computers Televisions	450
73	249	Sh. Rahul Gupta, 259 Deepali	Development of software & Web Designing other allied activities	450
74	250	Rational Technologies Pvt. Ltd.	Application Software Development , Data Processing & Product Generation for sale	450
75	251	Sh. Neeraj Sahni	Mfg. of Assembling of Electronics Interactive tools for education Field and development application	450

Sr. No	Plot no.	Name /adress of allottee (S/sh.)	Name of project	Area in (Sqrs.)
76	252	M/s Resore Industries,	Mfg. of Networking / Cabling Switchmode Powersupplies & Uninterupted Power	450
77	253	Ritesh Gupta	Development of Software & Other Related Activities etc.	450
78	254	Mrs. Rita Khanna	Mfg. Printed Circuits Board	450
79	255	Mrs. Ritu Singhal,	Mfg. of Geographics. Information systems / Automated Mapping/Facility Management	450
80	256	Sh. Manoj Arora	Electronics Goods	450
81	257	M/s P.L. Tandon	Mfg. Of Electronics Testing Equipment	450
82	258	Saraswav Aggarwa.	IT Enabled Services - BPO	450
83	259	Sh. Sardeep Kumar S/o Sh. Ram Singh Para Kanrain	Mfg. of Computer Hard Disk Drive	450
84	260	Sh. Sanjay Wachwa	Computers Assembling Units	450
	261	Mrs. Preeti Aggarwal	Auto Plastic Components	450
85	262	Saroj Sain	Mfg. Of UPS, Key Boards, Mouse, E SMPS, Power Supply & Electyronics Medicals Equipments	450
86	263	Sh. Satbir Singh. S/o Rampal	Development of Software, Software Application	450
87	264	M/s Kuser Industry	Mfg. Electronics, Components	450
88	265	Shrawan Kumar Aggarwal, 397	Software development & IT Services	450
89	266	M/s Shri Paras Info. System (P) Ltd.	Mfg. of Desktop & Assembling of Computer PC case	450
90	267	Ms. Shweta Jatwani,	Software Development & Data Processing	450
91	268	Sh. Varun Kumar	Mfg. of Automobile Accessories & Mats	450
92	269	Sh. Mohit Singla	Mfg. of computer Hardware such as Keyboard	450
93	270	Special Relays	Power Supply to Computer System and networking Cables Accessories	450
94	271	Suman Lata Jain & Vipul Jain	Software Development	450
	272	Sh. Shalab Khanna	Fabricate Sheet Metal Household Products & other allied products etc.	450
95	273	M/s Samyak Sansthaan Technical Consultants Pvt. Ltd.	Mfg. A.C.I.S Facility	450
96	274	Sun Divine Services (P) Ltd	Software ITES/ BPO	450
97	275	Sh. Sunil Kumar, 773, Tafazal Park, Patiala	IT & IT Enabled Services/ Application software Development	450
98	276	M/s Supreme Industries	Mfg. of Networking Cables and Related Accessories/ Readymade Agements and its accessories.	450
99	277	Sh. Suresh Kumar, H.No. 26	Mfg. of Electronic Components items (SMPS) Emergency Light, Call Bell UPS etc.	450
100	278	Sh. Sukhcer Singh Pahal	Mfg.of Electronics Services, Telecommunication Equipment	450

Sr. No	Plot no.	Name /address of allottee (S/sh.)	Name of project	Area in (Sqm.)
101	279	Sh. Sushil Bansa,	Mfg. of, Volume Controller Transfer & On-Off Switches	450
102	280	M/s Textonics Technologies (P) Limited,	IT & IT Enabled Services	450
103	281	M/s Triend Bio Products (P) Ltd.,	Mfg. of Electrophoresis, power supplies, Spectro, Photometers, PH & Conductivity Meters, Digital Temperature, Humidity Controllers, UPS etc.	450
	282 Infil	Sh. Dinesh Soneja,	Plastic Moulding & Metal Fabricating	450
104	283	Sh. Vijay Goyal, 717/22	Wires & Cable for IT Industries	450
105	284	Sh. Vikram Chahal, H.No. 44,	Mfg. of Printed Circuit Board	450
106	285	Sh. Vikram Saini	Mfg. of Computer Hardware	450
	286	Sh. Gaurav Kumar, Sh. Manmohan Singh	Mfg. of Automobile Accessories & Mats	450
107	287	Yogesh Chug & Anjali Chug,Tower	Computer Software Solution	450
	288	M/s Headways Communication	BU-13, Vishakha Enclave, Pitampura, Delhi - 34	450
	289	M/s Adwel Art	Mfg. of LED lighting system	1012.5
108	290	M/s Adwel Art, Prop. Sh. Om Parkash	Mfg. of Electronic Sign Board & Digital Printing Work	1012.5
109	291	Sh. Akhil Nagpal, S/o Sh. Narinder Nagpal	Mfg. of Computer Key Board	1012.5
110	292	Sh. Prabhu Dayal Bansal Prop. Shiv Infotech, 38-B, Prabha Colony, Panipat	Unit for Developing Software	1012.5
111	293	M/s Blaze Soft Technology (P) Limited, 417/7, Model Town, Bahadurgarh FTL issued in F/o M/s Blaze Soft Technology (P) Limited on dated 08.10.2018	Development of Software & Other IT Solutions	1012.5
112	294	M/s Spectrum Business Solutions India (P) Ltd	Software Development & Providing IT Enabled Services	1012.5
113	295	M/s Soft Scan Consultants (P) Ltd.	IT Enabled Services	1012.5
114	297	Sunil Mahajan	Electronics Devices UPS, SMPS, Electronics Cables	1012.5
116	302	Anil Dhawan	Software Development	1012.5
	303	Mr. Sandeep Jaiswal,	Mfg. Lubricants & its packaging products	1012.5
117	304	M/s YP Electronics Pvt. Ltd.	Mfg. of Electronics Goods/ components	1012.5
118	305	C.M. India	Mfg. of SMPS, UPS, Voltage Stabilizer, Transformers etc	1012.5
119	306	M/s Capital Elne Supply	Mfg. of Electronic Components	1012.5
120	307	M/s Chawala & Chaudhary Trading Co. (P) Ltd.,	Mfg of Programmable Winding Machines	1012.5
121	308	Dheeraj Anand & Rishant Chawala,	Mfg. of Computers & Software Design etc,	1012.5
122	316	Ms. Yamini Goel	Computers Mouse	1012.5
123	318	Sh. Ashok Kumar Prop.	Mfg of Consumables i.e. CD Room, Floppy Disk, Tapes DAT/ DLT, Ribbons etc.	1012.5
	319	M/s Best Innovations, B-76, Gujarwala Town Part I, Opp. Model Town, Delhi - 09	Plastic Moulding & Metal Fabricating	1012.5
124	320	M/s Door Sanchar Systems, Plot no-293, Ph-I,Industrial Estate, Panchkula	Mfg. of Active & Passive Networking Equipements	1012.5

Sr. No	Plot no	Name /address of allottee (S/Sh.)	Name of project	Area in (Sqm.)
125	321	Sh. Inderjeet Singh	M/g. of Uninterrupted power Supply System	1012.5
126	322	Sh. Joginder Singh Nandal	IT & IT related services	1012.5
127	323	Sh. Manish Kumar Mittal	Software Development	1012.5
128	324	Shanti Softech Pvt. Ltd	Software solutions	1012.5
129	325	Sh. Mukesh Jain	M/g. of Power Supplies to Computers	1012.5
130	326	Mukesh Rathi	Software Development	1012.5
131	327	Sh. Amit Arora,	PC Assembling / Applications Software , Back Office Operation	1012.5
132	328	Shanti Prakash Jain	M/g. all kinds of cables & Other Allied to	1012.5
133	329	Sandhya Chem Plast	M/g. of Net Working Cabling & Related Accessories	1012.5
134	330	Smt. Seema Aggarwal,	M/g. of Connectors for Electronic Industry, Computer Hardware	1012.5
135	331	Excellent Technologies (P) Ltd.	M/g. of Computer Cables & Net Working	1012.5
136	332	M/s Apex Industries AH-34	M/g. of Solder Wire & no Clean Flux	1012.5
137	333	M/s True Power International Limited	M/g of Power Supplies to Computer Systems	1012.5
138	334	Krishan Lal, S/o Bhola Ram	M/g. Of Computer Keyboard	1012.5
139	335	Sh. Aditya Mangla, S/o Hari Parkash Mangla	M/g. Computer Mouse	1012.5
140	336	Sh. Ajay Gupta	M/g of SMPS & UPS	1012.5
141	337	M/s Apro Plus Polyplast Private Limited	M/g. of Sinewave Line Interactive UPS	1012.5
142	338	Sh. Anil Gupta	M/g. of application Software Developement Unit/ Bakery Products	1012.5
143	339	M/s Bharat Electronics	Keyboard & accessories	1012.5
144	340	M/s J.D Enterprises	On off metallic switch, current breaker for over current etc.	1012.5
145	341	M/s RKL Computech (P) Ltd.	M/g. Of. Computers & its Components	1012.5
146	342	Sh. Anil Kumar, S/o Sh. Fateh Chand	M/g. of all kinds of energy meters & Electronic measuring instruments/category from EHTP to general,for setting of project m/g. of rubber footwear accessories	1012.5
147	343	Sh. Vinod Mangla	M/g. of Sinewave Line Interactive	1012.5
148	344	M/s Kabu Appliances Pvt. Ltd.	M/g. of UPS Voltage, Stabilizer, Inverter, SMPs etc.	1012.5
149	345	M/s G. Square,	Engineering and Design for IT Related Industry, Printed Circuited Board	1012.5
150	346	M/s Global E-Network Limited	ITs IT enabled	1012.5
151	347	HB Electricals Pvt. Ltd. C-305, Laxmi Kant Parsar, 3rd Floor Jamal Road, Patna.	UPS & XLPE Cables	1012.5
152	348	P.P. Inventions (P) Ltd.	Software development	1012.5
153	349	M/s Swift Securitas Pvt. Ltd	M/g. of Electronic Security Gadgets	1012.5
	350	M/s Kabir Solution Inc	IT & IT enabled services	1012.5

Sr. No	Plot no.	Name /address of allottee (S/sh.)	Name of project	Area in (Sqm.)
154	351	Sh. Vipin Khetla	Soft Wareddevelopment/Data Processing & Software Development	1012.5
155	352	Sh. Upendra Gulati	M/g. Electronics Devices for Industrial safety	1012.5
156	353	Sh. Tanuj Kundra	M/g. of Paper Plats & Napkins & other allied products etc.	1012.5
157	354	M/s Pooja Ind..tries.	M/g. of Computer Accessories And Networking	1012.5
158	355	Sh. Kapil Bahal,	Software Developments & IT Enabled Services	1012.5
159	356	Sh. Sanjeev Dubey,	Export of Software & Data Processing	1012.5
160	357	M/s Special Springs India (P) Ltd.	M/g. of power Supplies to Computers systems & manufacturing of Networking cable and related Accessories	1012.5
161	358	M/s Om Industries	M/g. of Networking Products & accessories	1012.5
162	359(file received)	M/s Pastrax Polyplast Pvt. Ltd,	M/g. of PE compounds	1012.5
163	360	M/s Shayam Avtar Gupta Industries (P) Ltd.FTL ISSUED IN F/o M/s Shyam Avtar Inds. Pvt Ltd.	IT Enabled Services i.e. Developing , Processing & Applicatio, Soft ware	1012.5
164	361	Sharath Sain Gupta , 14 Mall Road, Karnal,	Software Development	1012.5
165	362	Shri Shanalaxmi Impex	Net Working cable and Accessories	1012.5
	364-365	M/s Gobind Ram Kahan Chand (File not received) Prestigious category	Spinet, herbs, srecitines, allied products and food processing, turmeric etc.	8100
166	366	M/s Prahi India PVL Ltd.,	Pre-press (Book Designing), Post Press (Printing & Binding), Digitization (e-Books), Storage & Distribution of Books etc.	6300
	367	M/s Trump Informatics Pvt. Ltd.,	Stainless Steel utensils mfg unit	4050
	368-369	M/s VIP Plastics,	M/g. of al. types of Home Usable Items like trays & packing goods with invest of Rs. 52.83 cr.	8100
167	370-371	M/s Goyal Offset Works Pvt. Ltd ,	Offset Printing Products	8100
168	372	INSYS Design Systems (P) Ltd.,	IT Enabled Services	4050
167	373	Rajesh Rohtra	Electronics Goods Viz Remote Control Monitor LED, Monitor etc.	4050

Sr. No	Plot no.	Name /adress of allottee (S/sh.)	Name of project	Area in (Sqm.)
168	363, 380, 381	M/s. Sunita Jain & Sh. Vinay Jain,	Processing of Food/Agriculture Products, Seeds etc. alongwith Cold storage facilities	13230
169	374-375	M/s Goyal Offset Works Pvt. Ltd.	Offset Printing Products	8100
	379	M/s Asain Steel Industries,	SS Utensils	4050

Traffic

Gmail 8346321188 7384 Arun Garg <arungarg1968@gmail.com>

IMT Kharkhoda - Traffic & Transportation Study for existing and proposed projected Passenger and Cargo Traffic (ammended) -reg.

1 message

SAJJAN KUMAR GOYAL <skgoyal@gmail.com> Wed, May 29, 2019 at 12:49 PM
To: arungarg1968@gmail.com, [illegible]@hsiidc.org.in, [illegible]@gmail.com, [illegible]@gmail.com

Sir,
Please find enclosed herewith Traffic & Transportation Study for existing and proposed projected Passenger and Cargo Traffic for IMT Kharkhoda (Amended) for your consideration and further necessary action please.

--
With regards
SK Goyal

Passenger and Cargo Traffic Study for IMT Kharkhoda dated 29.05.19 (amended).docx
738K

Mr. Mahipal
9899366001 - Traffic Consultant

INTRODUCTION

1. KHARKHODA TOWN

Kharkhoda is an important upcoming Industrial Town of Haryana State situated on out skirts of Delhi and falls in Sonepat District of Haryana State. It is situated at a distance of about 20 Kms from Delhi. An Industrial estate was developed by Haryana State to attract the industrial entrepreneur way back in late seventies, here after there had been consistent demand of industrial plots Due to proximity of Delhi, there is lot of scope of industrial and residential development in the area. Haryana State Industrial and Infrastructure Development Corporation acquired 3306 Acres of land to develop Industrial Model Township(IMT), Kundli-Manesar-Palwal (KMP) Expressway is just 1 km away from the city. In October,2015 Chinese Delegation Wanda Group of around 35 people visit the city to develop Entertainment Theme City in the area.

As of 2011 India census Kharkhoda had a population of 25,651. As a Tehsil it contain 43 villages. Tehsil had population of 163899 in villages. Males constitute 53% of the population and females 47%. Kharkhoda has an average literacy rate of 78.55%, higher than the national average of 59.5%: male literacy is 87.38%, and female literacy is 68.26%. In Kharkhoda, 16% of the population is under 6 years of age. Its current population is about 21,302 Kharkhoda is and can be made subdivision after ongoing census of India. The most common language spoken in Kharkhoda is Haryanvi. Saini's 57% are in majority. Khanda is big village.

It said to derive its name from *Kharak*, meaning a *staff*. Another tradition connects it with Khara and Dushana, the brothers of Ravana, the rakshasa king of Lanka (now Sri Lanka).

It is located 16 miles to the west from nearby city, Rohtak. Total distance between Kharkhodato Sonipat is 19 km. It has an elected municipal body to run the municipal administration of the town which also contains the headquarters of the tehsil of Kharkhoda. In this historical site, there is a tomb of Syed Sufi Saint and his fair held annually. Also,there is a mandir which is very famous for ParwanjiMaharaj, a spiritual guru.

The town nurses a number of places of public utility of which a college, a civil veterinary hospital, a civil dispensary, a post office and police station are worth mentioning. It is an important grain market.

Very soon Kharkhoda town is going to become Industrial Model Town. Also a new Civil hospital is constructed at Tikana Kalan Road. Also, the new roads are under construction up to the newly constructed bypass all over the town. earlier it doesn't connects rohtak road and sonipat road but after construction of this part of bypass. Now it covers all the town. ITI has been constructed on Matli du Bye pass.'

Fig -1

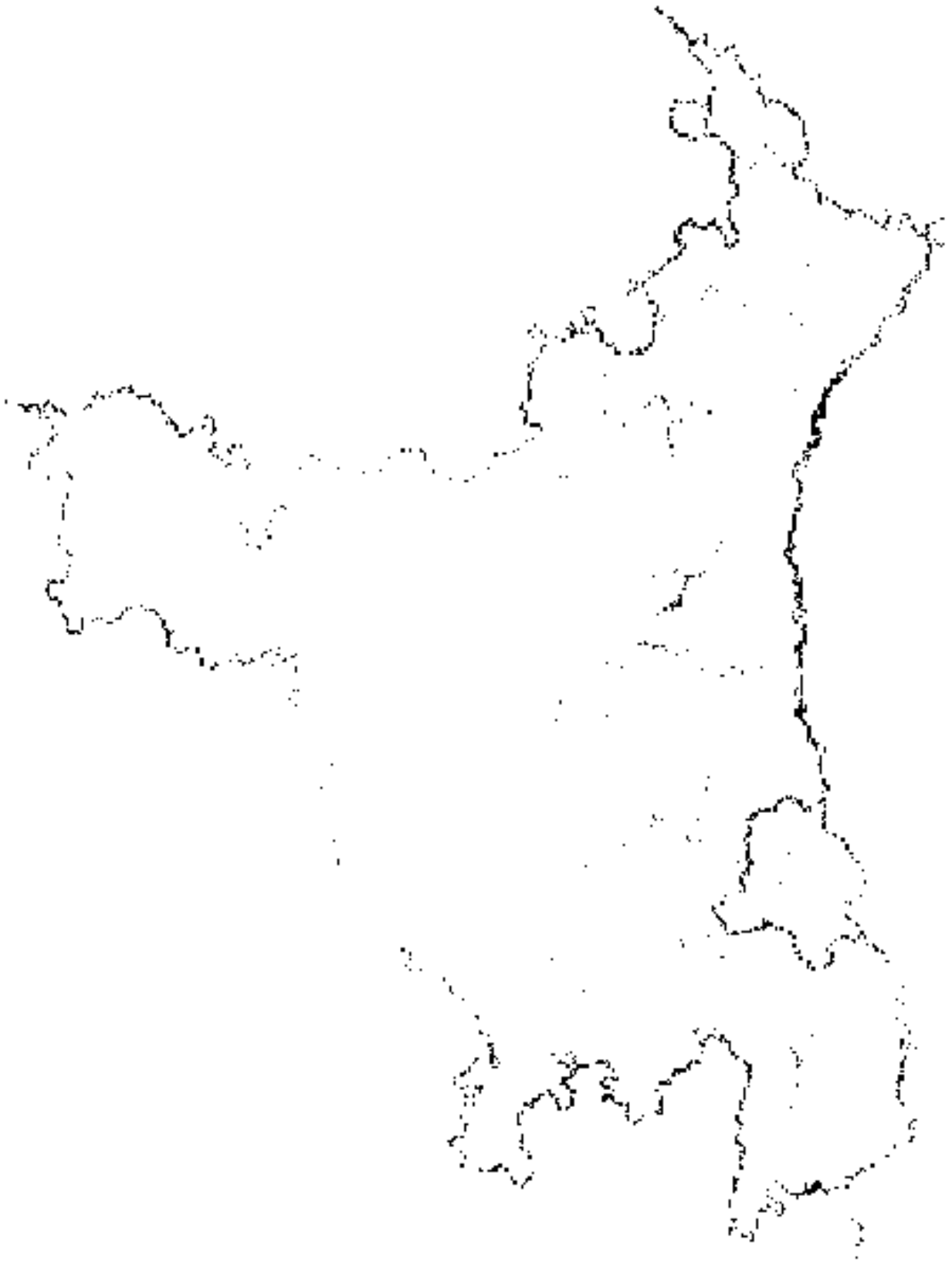
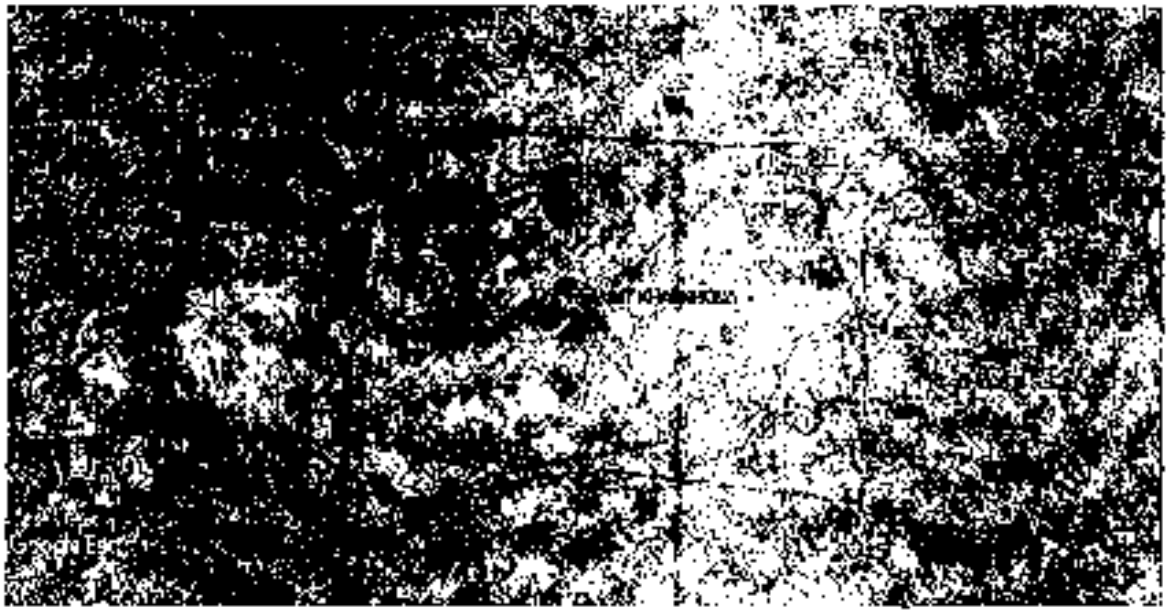


Figure 1Khrkhoda Industrial Town Ship, Distt Sonepat



- Developing the industrial area with the most modern environment friendly infrastructure facilities.
- Development Plan 2021 has been prepared by Town & Country Planning Department Drawing No. DTP (s) 1162/07 dt 05.12.2007
- Total Area has been divided in 2 Industrial Sectors.
- Industrial area is located near western peripheral express way & most of the industrial area proposed to be developed is a part of 2007 plan.
- Service Light Extensive & Medium Industrial development is proposed in development plan.
- Total Area as per development plan 2021=7763 Acres

Table -1 (Land Use)

Land Use	Area	
	Acres	% age
Residential	1215	15.65
Commercial	380	4.91
Industrial	2800	36.05
Transport & Communication	925	11.91
Public Utility	220	2.83
Public & Semi Public	435	5.60
Open Space& Green Belts	1821	23.45
Total	7763	100 %

- Major development agencies responsible for development of Town are
  a) Municipal Corporation of Khakhoda.
  b) Haryana Industrial and Infrastructure Development Corporation &
  c) Haryana SahariVikasPradhikaran
- Tentative break up of Area
- HSIIDC is developing the area as IMT Kharkhoda
- HSIIDC has planned 1st Sector with 3306 Acre area.
- Detailed Project Report was prepared by M/s G-Eng. Advisory Services Pvt. Ltd., Gurgaon amounting Rs415.10 Cr.in year 2019. DPR for 145.71 Cr has already been approved for construction of Infrastructure such as Roads, Water supply and Sewer Line etc and balance approval in progress.
- The DPR was approved by HSIIDC Authorities. Tender document for part of DPR was prepared by M/s G-Eng. Advisory Services Pvt. Ltd Consultants
- The work will likely to be allotted to the agency in year 2019
- Layout Plan was prepared by HSIIDC Authorities in year on 15.01.2019
- Now the scheme is proposed as per lay out plan

Layout-2 (Tentative Break-up)

	Tentative Break up of Industrial Area, Kharkhoda, District Sonepat Proposed to be developed by HSIIDC	In Acres
1	Total Area	3306.00
2	Area Released	89.13
3	Balance Land	3217.19
4	Area to be planned Later	10.00
5	Area under Industrial Plots	1267.54
6	Commercial Area	171.51
7	Area reserved for Public Utilities/Buildings	169.04
8	Area Reserved for Institutional use	123.35
9	Area Reserved for R&R Plots	108.85
10	Area Reserved for R&R Pockets & Land pooling Plots/housing	163.58
11	Net Planned Area	2013.87
12	Area reserved for Green Belts, open spaces, Roads, Orbital Rail Corridor and Parking etc.	1203.32

2. ROAD NETWORK

2.1 Existing Connectivity to the Project site

At present the project site is connected directly from the State Highway located on the eastern side of the project site i.e. Delhi-Khanoda road and KMP Highway is on southern side of project site

2.2Preliminary Traffic Assessment

The estimated traffic in the proposed integrated township is driven by the trips generated by the proposed land use within the project area. The estimated traffic is then appropriately assigned on the networks to obtain the quantum of traffic that will be handled by the road network. The trips are proposed for the following land uses

- Industrial
- Commercial
- Residential
- Intuitional
- Hospital
- Others

2.3 PCU Values

PCU values are used to convert various vehicles in to one standard vehicles i.e. Passenger Car Units (PCU). The PCU values used as per IRC are as given below:-

Table:-3

S .N	Vehicle Type	PCU Value
1	Car	1
2	Two Wheeler	0.5
3	Private Bus	3
4	Auto	1.2
5	LCV	2
6	Tractor and Trailer	5
7	Cycle	0.5
8	Cycle Rickshaw	2

2.4 Estimation of Traffic in 3306 Acres

(a) The Area details as under:-

Table.-4

	Area In acres	Area In Sq m
otal Area	3306.00	1,33,82,688
Area Released	89.13	3,60,799
Balance Land	3217.19	1,30,23,185
Area to be planned Later	10.00	40,480
Area under Industrial Plots	1267.54	51,31,002
Commercial Area	171.51	6,94,272
Area reserved for Public Utilities/Buildings	169.04	6,84,274
Area Reserved for Institutional use	123.35	4,99,320
Area Reserved for R&R Plots	108.86	4,40,625
Area Reserved for R&R Pockets & Land	163.58	6,62,172
Net Plot/Flats/Housing	2013.87	81,52,146
Area reserved for Green Belts, open spaces, Roads, Orbital Rail Corridor and Parking etc.	1203.32	48,71,039

2.5 Population of Kharkhoda along with future expected population

Table-5

Nos	Nos	Nos.	Nos
2001	2011	2021	2041
18758	25351	31500	39000

2.6 Population of adjoining village of Kharkhoda IMT along with future expected population:-

Name of adjoining villages	Nos	Nos	Nos.	Nos.
	Year 2001	Year-2011	Year-2021	Year-2041
Rampur	2100	2879	3599	4499
Nizampur	1440	1919	2399	2999
Saidpur	2625	3580	4475	5594
Ferozpurjhanga	2280	3047	3809	4761
Jatula	1650	2197	2746	3433
Sohi	2415	3221	4026	5033
Pahladpur	2170	2995	3619	4524

Pali	2832	3776	4720	5900
Gopalpur	2610	3480	4350	5438
Baroga	3450	4598	5744	7180
Thana kalan	3350	4463	5579	6974

2.7 Population Study

Table 6(Population Detail)

S.No.	Tentative Break up of Industrial Area, Kharkhoda, District Sonipat Proposed to be developed by HSIIDC			Norms for Population/Working Population	Norms for Floating Population	Population/ Working Population	Floating Population
		Acres	Sq m			Nos.	Nos.
1	Area Released	89.13	3,60,798	30 Persons per Acre	70 Persons per Acre	2,674	6,239
2	Area to be	10.00	40,480	250 Persons	70 Persons	2,500	700

	planned Area			/Acre	per Acre		
3	Area under Industrial Plots	1267.64	51,31,002	30 Persons per Acre	70 Persons per Acre	38,026	88,728
4	Commercial Area	171.57	6,94,273	1 person per 20 sqm area for working population	100 persons floating population per 4000 Sqm area	34,714	17,357
5	Area reserved for Public Utilities/Buildings	169.04	6,84,274	1 person per 400 sqm area for working population	100 persons per acres of 1 Acres	1,710	16,900
6	Area Reserved for Institutional use	123.35	4,99,321	1 person per 20 sqm area for working population	100 persons floating population per 4000 Sqm area	24,968	12,483
7	Area Reserved for R&R Plots	108.05	4,40,625	13.5 persons /Plot	13.5 persons /Plot	6,683	6,683

8	Area Reserved for R&R Pockets & Land pooling Plots/Housing	163.58	6,62,172	13.5 persons /Plot	13.5 persons /Plot	6,693	6,693
9	Area reserved for Green Belts, open spaces, Roads, [illegible]	1203.32	48,71,039	1 person per 400 sqm area for working population	10 persons /existing population per 4000 Sqm area	12,178	12,178

The Total population in the residential area envisaged is 26732 Persons

The Total Employment Generation envisaged is 13366 Persons

2.8 Estimation of users of Road network (Traffic Generation Calculations)
Assumptions for Trip Generations

- Large number of workers class would live in adjoining villages
- Top Management cadre have tendency of staying in Delhi/Gurgaon.
- Large section of employees working in Govt /Semi Govt. Sector/Private Sector in would live in Delhi/Gurgaon.
- Average no of persons using each Cars =2
- Average no of persons using each 2Wheelers =1.5
- Average no of persons using each Bus =30
- Average no of persons using each Cycles =1
- Average value of Product generation in Industrial area @0.015 Ton/Sq.m
- Population breakup is summarized as under from Table 6
- Total Residential population of the area as per table -6(26732 Persons)
- Industrial Worker=38026+88728=126754 Persons
- Break up of Industrial Worker are as under
  1) Skilled Workers=40%*126754=50702 Persons
  2) Un skilled Workers=60%*126754=76052 Persons

3) Construction Labour – 10000 Persons

4) Commercial Institutions – 34714 + 24866=59580

5) Public Utility – 1710

Assumption for Design

- Design period of 15 years
- Increase in Employment generation 7.5%
- Nos of persons using Cars = various factor have been assumed for different trades
- Nos of persons using 2 Wheelers = various factor have been assumed for different trades
- Nos of persons using Bus = various factor have been assumed for different trades
- Nos of persons using Cycles = various factor have been assumed for different trades

Passenger Traffic Study (Trip generation from IMT)

Table. 8

Area	No. of Workers	No. of Persons using Cars		No. of Persons using 2 Wheelers		No. of Persons using Bus		No. of Persons using Cycle	
		%		%		%		%	
Industrial Area									
(a) unskilled	76052	NT	NT	20 %	15210	30%	22815	30%	22815
(b) Skilled	50702	20%	10140	50 %	25351	20%	10140	10%	5070
Construction Labour	10000	5%	500	20 %	2000	20%	2000	30%	3000
Commercial & Industrial Area	59680	25%	14920	30 %	17904	20%	11936	15%	8952
Public Utilities	1710	10%	171	40 %	684	20%	342	20%	342
Total	**198144**		**25731**		**61149**		**47234**		**40180**
Residential Area Considering	8829	20%	1764	40 %	3529	15%	1323	15%	1323

33%				
[illegible] of	206966	27495	64678	48557	41503

Trip generation from IMT (Passenger Traffic)

- No of trips of Car=27495/2 = 13748
- No of trips of 2 wheelers= 64678 / 1.5 = 43118
- No of trips of Bus= 48557 / 30 = 1619
- No of trips of Cyclist=41503 / 1 = 41503

CARGO Traffic

Trip generation of Trucks for lifting Products from IMT

- Area of Industries =1267.54 X4048 =5131002sqmtr
- Load generated =0.015 X 5131002 = 76965 Ton
- Assuming that 40% material will be lifted by Trucks & 60% material will be lifted by 4 Wheelers
- Assuming carrying capacity of one Truck =10 tons
- Assuming carrying capacity one 4 Wheeler =3 tons
- No of Trips of Trucks=76965x40%/10=3079. Say 3080nos
- No of Trips of 4 Wheelers=76965x60%/3=15393. Say 15395 trips

Trip generation from surrounding areas

- Assuming that 10% additional load will be generated from surrounding areas on main roads.

- No of trips of Car=13748x10%=1375
- No of trips of 2 wheelers=43118x10% = 4312
- No of trips of Bus=1618x10% =162
- No of trips of Cyclist=41503x10%=4150

Table: - 9

TRIP GENERATION ON ROADS OF IMT	Category Wise Trips of Vehicles						
	Car	2-Wheeler	Bus	Cycle	Truck	4 Wheeler 5	Total
Traffic due to IMT	15748	43118	1618	41503	-	-	99987
Traffic due to surrounding areas 10%	1575	4312	162	4150	-	-	9998
Traffic due to Goods / industrial production					3080	15395	18475
Sub Total	15123	47430	1780	45653	3080	15395	128461
Total Vehicular Traffic (excluding cyclists)	15123	47430	1780	-	3080	15395	82808
PCU Factor	1	0.5	3	-	5	1	
PCU	15123	23715	5340	-	15400	15395	74973
Peak Hour PCU (12%)	1815	2846	641	-	1848	1847	8997
Peak Hour PCU on access roads (40%)	726	1138	256	-	739	739	3599

4.0 Surface Drainage

A separate storm water drainage network apart from sewerage system has been proposed in the development area for the collection and safe disposal of storm water during rainfall. The design criteria to be followed for design of storm water drainage network are broadly based on the recommendations as laid down in the CPHEEO manual of sewerage and Waste Water treatment, ministry of urban development, Government of India and as per provisions laid down in the relevant I.S. Codes and consultants' past experience in related field. The design norms are essentially the same as suggested for sewerage system. The various design considerations and norms are described below.

4.1 Rainfall Data

Rainfall data available for Sonipat shows that it receives an annual average rainfall of 767 mm.

Climate data for Sonipat

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Average high °C (°F)													
Average low °C (°F)	8 (46)	11 (52)										9 (48)	
Average rainfall mm (inches)	19.7 (0.78)	24.6 (0.96)	14.6 (0.58)	10.1 (0.39)						12 (0.4)	4 (0.1)	10 (0.4)	
Average relative humidity (%)													

4.2 Design of storm water drainage system will be carried out in three stages.

- Defining the catchments and runoff areas.
- Locating the points for collection of storm water.
- Disposal of storm water at appropriate outfall point after checking its adequacy.
- For proper disposal of storm water, underground storm water disposal system along with pumping at the last point has been provided with the following assumptions.
- Rainfall precipitation: - 5mm per hour.
- All the open area and parks shall be lowered by 1M for storage and recharging of Storm Water.
- Construction of Roof top Rain water harvesting structures is mandatory for all types of plot holders.
- Rain water harvesting pits in open spaces.

- Flooding shall be allowed for 8 hours.
- Creation of water body along KMP Express way for Rain water harvesting.

4.3 Storm water runoff reaching the drains can be determined by using the rational formula for the calculation of storm water runoff and it is given below:

Flow (Q)	=	**CIA/360**
Q	=	Flow in cum/ sec.
C	=	Coefficient of run off (is to be taken as 0.2 – 0.9 depending on surface)
I	=	Intensity of rain fall per hour in mm
A	=	Area in hectare

Storm Intensity = 5 mm/hr

CALCULATION OF STORM FLOW - IMT KHARKHAUDA

S no	Type of Area	Total Area (sqm)	Total Area (acre)	Covered Area in % Including paved area	Total Area	Coeff of Runoff	Avg. Storm Flow (L/s)
1	Commercial use	694272.48	171.51	80	137.208	80%	517.13
2	Green Belt open space including at water works and CETP sites and road sides Plantation	2024000	500	0%	0%	0%	0
3	Institutional Use	499320.8	123.35	80	98.68	80%	443.84
4	Public Utility	684273.92	169.04	70	118.328	80%	532.21
5	Area Reserved for Industrial Plots	5131001.9	1267.54	60	760.524	80%	3420.67
6	R & R Plots	440624.8	108.85	80	87.08	80%	391.67
7	R & R Pocket Land Pooling Plots Housing	662171.84	163.58	80	130.864	70%	515.02
8	Public Building	0	0	0	0	0%	0
9	Area To be Planned Later	40480	10.00	80	8	80%	35.98
10	Village Rampur	300798.24	89.13	60	53.478	60%	180.4
11	Total area under roads (3279470 M^2] Total metalled portion of roads	1670569.1	412.69	70	288.883	80%	1299.33
	TOTAL	12207513	3015.69				7436.25
12	Less Strom water disposed in recharging structure					20%	1487.25
13	Storm water to be collected and disposed off						5949.00

4.4 Design Parameters

The design of the Storm Water System is based on input data which will act as source information for the hydraulic model in SEWER GEM pipe software

Peak Factors:

Since the storm water flow shall be collected as disposed of as soon as it falls, the peak Factor has been considered as 1.0.

Storm Design Formulae

Manning's formula has been used for the design of circular conduits as per CPHEEO Sewer manual Clause 3.15.4 Page 3-27.

$V = 1/n\ (3.968 \times 10^{-3})\ D^{2/3}\ S^{1/2}$

$Q = (1/n)\ (3.118 \times 10^{-6})\ D^{2.67}\ S^{1/2}$

Where,

Q : Discharge in l/s ; S : Slope of hydraulic gradient ;

D : Internal diameter of pipe line in mm

R ; Hydraulic radius in m ; V : Velocity in m/s

n : Manning's coefficient of roughness

= 0.011 for RCC pipes)

Depth of Flow:

For consideration of ventilation in wastewater flow, storm shall not be designed to run full. All storm pipes have been designed to flow 0.8 full at ultimate peak flow.

Minimum Cover:

Minimum cover shall be taken as 1.0 m up to crown of pipe.

Minimum Size of Storm:

Minimum pipe diameter 300 mm has been adopted.

Material of Pipe:

All Pipes shall be RCC NP-3 Spigot and Socket ended pipe as per IS 458 : 2003. The design has been done with crowns matching.

Pipeline Design:

The design has been using Manning's formula and design statement is attached ahead. The node-wise flow calculation is attached at Annexure – I and Storm Design Statement.

4.5 Velocity in Storm Sewer

It is required to maintain minimum velocity through the storm sewer to ensure that suspended solids do not deposit and cause choking. Hence, it is mandatory to maintain "Self-cleansing velocity" in sewer lines.

The minimum self-cleansing velocity required is 0.6 m/sec at present peak flow to prevent 0.09 mm sand particles of sp. gr. 2.65 from setting.

The maximum scouring velocity is limited to less than 3.0 m/sec to safeguard the storm sewer against abrasion and erosion by sand and other gritty material.

4.8 Disposal of Storm Water:

Storm Water shall terminate at disposed of Storm Pumping Station (SPS) to be constructed at Sewage Treatment Plant (STP) site. The storm water shall be pumped from SPS into nearby TIANAKALAN drain.

ANALYSIS FOR RAIN WATER HARVESTING SYSTEM

Sl. No.	Item No.	Description	Qty	Unit	Rate (in Rs.)	Amount (in Rs.)	C.P.	Amount involved due to CP (in Rs.)	Total (in Rs.)
1	6.7	Earth work in excavation in foundations trenches, all under ground structures subways drains etc and other similar works in ordinary soil including grassing and disposal of surplus soil as directed within a lead of 20 mtrs for depth up to 2 mtrs below natural ground level.							
		12 x 4 x 3.5	168	cum	100.00 cum	952.00	1955.76	270%	5725.31	7681.07
2	10.6a	Design mix cement concrete of grade M10 with minimum cement contents 220 Kg/cum in foundation and plinth							
		12 x 4 x 0.25	12.04	cum	1 cum	649.75	9521.55	450%	26901.82	36423.36
3	10.6c	Design mix cement concrete of grade M20 with minimum cement contents 405 Kg/cum in foundation and plinth							
		12 x 4 x 0.10	4.8	cum	1 cum	737.60	3540.48	440%	15537.30	19077.78
4	10.67	Design mix cement concrete of grade M30 with minimum cement contents 420 Kg/cum in foundation and plinth							
	Walls	2 x 10 x 0.15 x 3	9.00							
		5 x 4 x 0.15 x 3	3.00							
			12.00	cum	1 cum	977.40	11728.32	450%	52826.88	64555.20
5	9.1	Centering and shuttering for flat surfaces such as suspended floors roofs, landings canopies, sunshades etc inclination not exceeding 25 degrees with normal							
		2 x 12 x 0.75	5.52	Sqm	1 Sqm	40.65	224.39	40.0%	1009.75	1234.13
		2 x 4 x 0.75	1.94	Sqm	1 Sqm	40.65	78.82	450%	376.58	411.08
		1 x 12 x 4	48.00	Sqm	1 Sqm	40.65	1951.20	450%	8780.40	10731.60

6	8.5	Centring and shuttering for faces of walls, partitions, retaining walls, wall staircase and the like (vertical & battening) including attached pilasters, buttresses etc. when curved.								
		2 x 2 x 12 x 3	144.00	Sqm	P. Sqm	60.70	8740.80	450%	39333.60	48074.40
		2 x 2 x 4 x 3	48.00	Sqm	P. Sqm	60.70	2913.60	450%	13111.20	16024.80
7	11.6	First class brick work laid in cement sand mortar 1:6 in first storey upto 4 mts. above plinth level.								
		2 x 3 x 0.23 x 0.30	0.41							
		2 x 12 x 0.23 x 0.30	1.66							
			2.07	Cum	P. Cum	428.6	887.20	450%	3992.41	4879.61
8	18.22	Cold twisted deformed bars for RCC works, where not included in the composite rate of RCC including bending, binding and placing in position complete.	13.86	Qtl	P. Qtl	917.05	12710.31	500%	63551.57	76261.88
9	28.90	**Providing and placing in horizontal layers filtering media screened, washed and cleaned as described below:**								
	(a)	**Top Layer:** Fine sand screened, cleaned and washed and graded (effective size 0.2 to 0.4 mm with uniformity coefficient 2.0 to 3.0) from Chaggar or other approved source.	1	Cum	P. Cum	160	160.00	1200%	1920.00	2080.00
	(b)	**Second Layer:** Coarse sand screened, cleaned and washed and graded from 3mm to 6mm from Chaggar or other approved equivalent quarry.	1	Cum	P. Cum	288.2	288.20	350%	1035.16	1580.36
	(c)	**Third Layer:** Bajri screened washed and graded from 6mm to 20 mm from Chaggar or other approved equivalent quarry.	1	Cum	P. Cum	145.75	145.75	350%	553.85	655.88

	d)	**Forth Layer:** Bajri (channel) screened, washed and graded from 20 mm to 25 mm (from Chaggar or other approved equivalent quarry)	[illegible]	Cum	P cum	135.5	135.50	380%	514.90	650.40
	e)	**Bottom Layer:** Broken stone screened, washed and graded from 50 mm to 75 mm (from Chaggar or other approved equivalent quarry)	1	Cum	P cum	128.5	128.50	380%	487.03	607.03
10	29.84	Providing and fixing SFRC manhole covers and frames marked with IS: 12592 including setting the same to correct lines and levels in 1:2 cement sand mortar over manhole including carriage, loading, unloading, stacking, handling, re-handling etc. (as directed by Engineer)	2	No	each	1701.00	3402.00	10%	365.00	3770.00
11	29.93	Providing & Fixing Steel bar embedded plastic strips of size 250 mm x 100 mm of orange colour conforming to specifications in pump chambers, manholes etc. having minimum 3 mm thick polypropylene polymer conforming to IS: 10910 encapsulated on 12 mm dia ribbed steel bars as per IS: 1786	5	Scm	Sqm	90.00	450.00	0%	0	450.00
12	15.3	12 mm thick cement plaster 1:2								
		2 X 3 X 0.23	1.38							
		2 X 12 X 0.23	5.52							
			6.90	Sqm	Sqm	16.80	115	500%	573	687.04
13	N.S.	Boring of bore holes with percussion Rig with 300 mm dia. up to 30 Mtr. depth. No. of bore holes 3 (3 x 30 Mtr)	90	Mtr	P. Mtr	500.00	45000	0%	0	45000.00
14	N.S.	Supply of HDPE (PN-6) with thickness 15.6 MM) slotted pipe of 200 mm dia with coir wrapping (3 x 30 Mtr)	90	Mtr	P. Mtr	2932.05	263920.50	0%	0	263920.50

15	KG	Providing and fixing of SS perforated screen of 2x6mm @ 10mm c/c	1	Job	Job	600000	600000.00	0%	0	600000.00
									Total	650450

HSIIDC

REVISED LAYOUT PLAN-V OF IMT KHARKHAUDA

N

PURPOSE:-

- LAYOUT PLAN HAS BEEN REVISED AFTER SEEKING INPUTS OF INDUSTRIAL AREA DIVISION FOR SEEKING ENVIRONMENTAL CLEARANCE.

SR. NO.	AREA STATEMENT FOR GENERAL CATEGORY	IN ACRES
1	TOTAL AREA	3306.32
2	AREA RELEASED	89.13
3	BALANCE LAND	3217.19
4	RAW LAND ALLOTTED TO GRAM PANCHAYAT VILLAGE RAMPUR FOR BPL FAMILIES	10.00
5	AREA RESERVED FOR INDUSTRIAL PLOTS	1243.28
6	AREA RESERVED FOR COMMERCIAL USE	171.51
7	AREA RESERVED FOR PUBLIC UTILITIES/BUILDINGS	168.47
8	AREA RESERVED FOR INSTITUTIONAL USE	147.61
9	AREA RESERVED FOR R&R PLOTS	109.29
10	AREA RESERVED FOR R&R POCKETS & LAND POOLING PLOTS/HOUSING	163.58
11	NET PLANNED AREA	2013.74
12	AREA RESERVED FOR GREEN BELTS, OPEN SPACES, ROADS, ORBITAL RAIL CORRIDOR & PARKING ETC.	1203.45

DETAIL OF R&R PLOTS

S.no.	SIZE (METERS)	AREA (IN SQM.)	NO'S
1	15x30	450	600
2	13.5x26	350	154
3	12x25	300	164
4	10x20	200	188
5	9x16.5	150	112
6	7.5x12	90	165
	TOTAL		1383

DETAIL OF GENERAL INDUSTRIAL PLOTS

S.no.	AREA (IN ACRES)	SIZE (METERS)	PLOT NO'S
1	4.10	95 x 175	11
2	3.25	85 x 155	11
3	3.00	85 x 145	08
4	2.50	80 x 125	09
5	2.28	88 x 105	04
6	2.00	75 x 105	105
7	1.91	--	01
8	1.84	71 x 105	02
9	1.78	80 x 90	03
10	1.74	67 x 105	04
11	1.71	77 x 90	02
12	1.31	59 x 90	01
13	1.24	56 x 90	04
14	1.00	45 x 90	281
15	0.80	55 x 60 54 x 60	03
16	0.74	50 x 60	03
17	0.70	47 x 60	06
18	0.65	44 x 60	04
19	0.55	37 x 60	02
20	0.51	35 x 60 34 x 60	09
21	0.44	30 x 60	628
22	0.41	29 x 57 37 x 45	08
23	0.34	32 x 45 31 x 45 30 x 45	08
24	0.29	26 x 45	01
25	0.25	22.5 x 45	693
26	0.22	21 x 45 20 x 45 19 x 45	13
27	0.20	20 x 40	240
28	0.11	15x30	902
		TOTAL	2965

DRAWING NO. HSIIDC/IPD/1307 DATE :- 22.05.2020

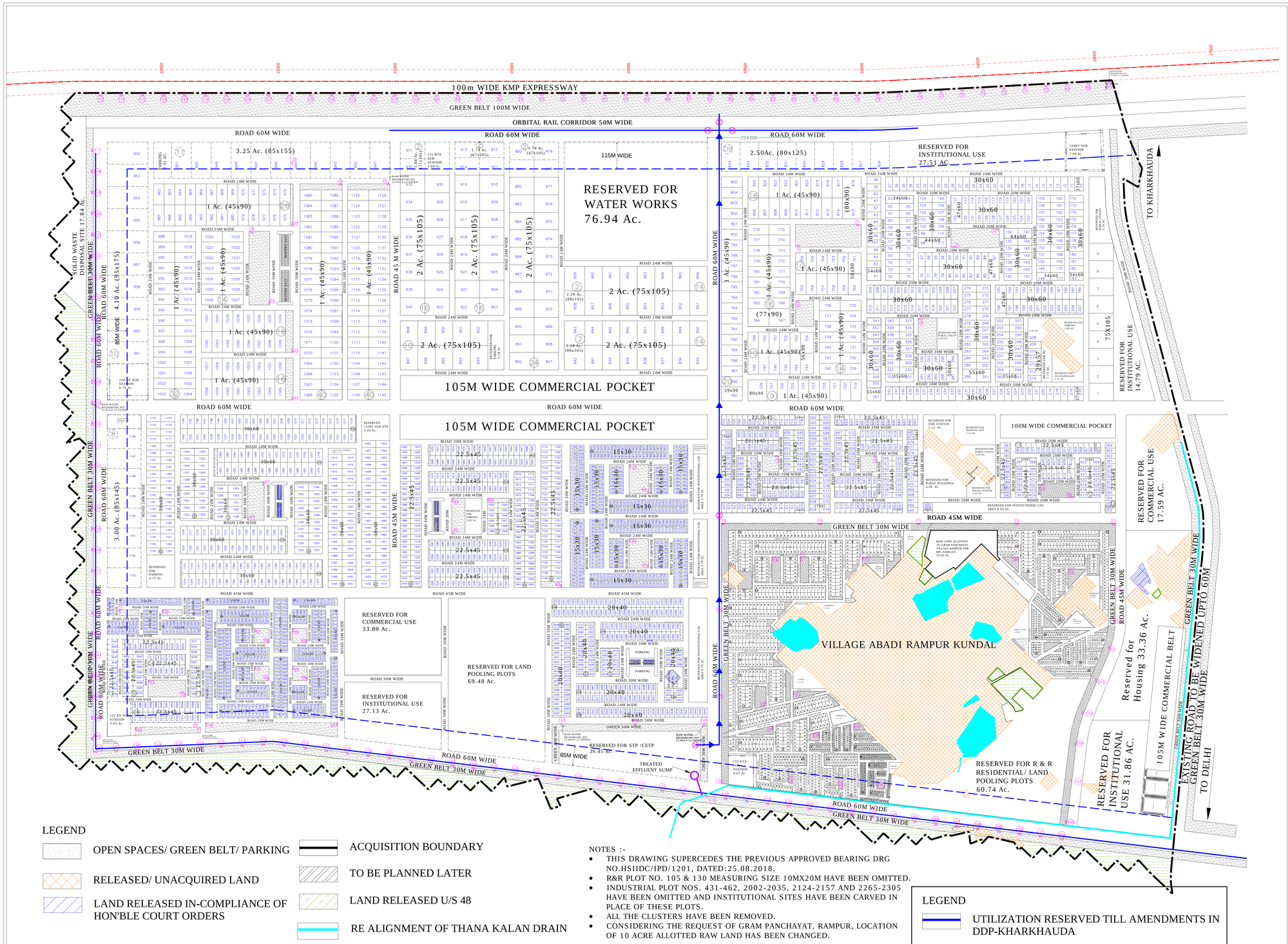
REV.MKD	DESCRIPTION	APP. BY	DATE
	REVISIONS		

CLIENT: THE A.G.M (IA) HSIIDC I.M.T KHARKHODA (HARYANA)

CONSULTANT: COMPREHENSIVE ENVIROTECH ENGINEERS PVT. LTD.
571AP, SECTOR 15, PART I, GURGAON
PH. 9818762252, 9910236025. EMAIL: ceepl@gmail.com

PROJECT: I.M.T KHARKHODA (HARYANA)

DESIGNED BY	PKJ	DRAWING TITLE : RISING MAIN FORM STOM WATER DISPOSAL TO WATER BODY, RAIN WATER RECHARGING PIT AND REALIGNMENT OF THANA KALAN DRAIN
DRAWN BY	HARENDRA	
CHECKED BY	JCY	
APPROVED BY	JCY	
DATE	21-05-2020	
SCALE	NTS	DRAWING NO. : AO/CEEPL/HSIIDC-SW-RWH/004 REV. 04



LEGEND

- OPEN SPACES/ GREEN BELT/ PARKING
- RELEASED/ UNACQUIRED LAND
- LAND RELEASED IN-COMPLIANCE OF HON'BLE COURT ORDERS
- ACQUISITION BOUNDARY
- TO BE PLANNED LATER
- LAND RELEASED U/S 48
- RE ALIGNMENT OF THANA KALAN DRAIN

NOTES :-

- THIS DRAWING SUPERCEDES THE PREVIOUS APPROVED BEARING DRG NO.HSIIDC/IPD/1201, DATED:25.08.2018.
- R&R PLOT NO. 105 & 130 MEASURING SIZE 10MX20M HAVE BEEN OMITTED.
- INDUSTRIAL PLOT NOS. 431-462, 2002-2035, 2124-2157 AND 2265-2305 HAVE BEEN OMITTED AND INSTITUTIONAL SITES HAVE BEEN CARVED IN PLACE OF THESE PLOTS.
- ALL THE CLUSTERS HAVE BEEN REMOVED.
- CONSIDERING THE REQUEST OF GRAM PANCHAYAT, RAMPUR, LOCATION OF 10 ACRE ALLOTTED RAW LAND HAS BEEN CHANGED.

LEGEND

UTILIZATION RESERVED TILL AMENDMENTS IN DDP-KHARKHAUDA

Sizing Calculations & Technical Data Sheets for 64 MLD Capacity Effluent Treatment Plant Based on extended aeration at IMT Kharkhoda.

Sl. No.	Particulars	Specifications / Calculations	References
1.0.0.	**Design Parameters**		
1.1.0.	**Capacity: -**		
1.1.1.	**Total Ultimate Peak Flow**		
a)	Pumping hours, Hours/Day	24.0	
b)	Flow rate, M^3/ Day	65000.0	
c)	Peak Factor	3.0	
d)	Peak flow, M^3/ Day	195000.0	
e)	M^3/ Hour	8125.0	
f)	M^3/Min	135.4	
g)	M^3/ Sec.	2.3	
1.1.2.	**Ultimate Average Flow**		
a)	Pumping hours, Hours/Day	24.00	
b)	Flow rate, M^3/ Day	65000.00	
c)	M^3/ Hour	2708.33	
d)	M^3/Min.	45.14	
e)	M^3/ Sec	0.75	
1.1.3.	**Influent Characterstics**		
a)	BOD5	450.00	mg/ L
b)	COD	900.00	mg/ L
c)	TSS	1200.00	mg/ L
d)	Oil & Grease	100.00	mg/ L
e)	Chromium	5.00	mg/ L
e)	bCOD/ BOD ratio	2.00	
1.1.6.	**Levels in meters: -**		
	Invert level of influent line	210.20	
	NSL	218.90	
	FL	219.20	
1.2.0.	**Flow Rates, M^3**		
1.2.1.	**Flow for design of all inlets & outlets at ulimate peak flow**		
a)	M^3/ Day	195000.00	
b)	M^3/ Hour	8125.00	
c)	M^3/Min.	135.42	
d)	M^3/Sec	2.26	
1.2.2.	**Flow for design of all inlets & outlets at each module**		
a)	M^3/ Day	65000.00	
b)	M^3/ Hour	2708.33	
c)	M^3/Min.	45.14	
d)	M^3/Sec	0.75	
2.0.0.	**Receiving Chamber**		
2.1.0.	Inlet Pipe: -		
2.1.1.	Inlet Pipe, D: mΦ	1800.00	1.8
2.1.2.	Flow, M^3/Sec	2.26	Q
2.1.3.	Maximim Velocity, MPS	0.89	[Q*4/(π*D^2)]
2.1.4.	π	3.14	
2.2.0.	**Chamber: -**		
2.2.1.	Flow, M^3/Sec	2.26	
2.2.2.	Hydraulic Retention Time, Sec.	15.00	
2.2.3.	Volume, V: M^3	33.85	V
2.2.4.	Desired SWD, M	1.50	
2.2.5.	Length/ Width	3.00	
2.2.5.	Width of Sides, M	8.23	(V/SWD*2)^0.5
	Say	8.40	
2.2.6.	Size of Sides, M	2.87	(V/SWD*W)^0.5
	Say	3.00	
2.3.0.	**Sluice Gate Sizing: -**		
2.3.1.	Maximum Flow, M^3/ Sec.	2.26	
2.3.2.	Number of screens.	4 (3W+1SB)	3
2.3.3.	Maximum Flow, M^3/ Sec.	0.75	

2.3.4.	Maximum Velocity, MPS.	0.90	
2.3.5.	Type.	Rectangular	
	A, Flow sectional area.	0.84	M^2
	B, Width in M.	1.29	M
	Say	1.30	
2.3.6.	D, Depth in M	0.65	M
2.4.0.	**Coarse Screen (Mechanical)**	4(3W+1SB)	
	No. of Mechanical Screens	**3**	Nos.
	Design Flow	Peak Flow	
		195.00	MLD
		8125	m^3/hr
		2.257	m^3/sec
	Average Flow	65.00	MLD
		2708	m^3/hr
		0.752	m^3/sec
	Design Flow in each Screen	2.257	m^3/sec
		3	No.
		0.752	m^3/sec
	Average Flow in each Screen	0.752	m^3/sec
		3	No.
		0.251	m^3/sec
	Maximum Velocity through Screen at Peak Flow	0.9	m/sec
	Minimum Velocity through Screen at Average Flow	0.6	m/sec
	Clear Area of Opening through Screen at Peak Flow	0.752	m^3/sec
		0.9	m/sec
		0.836	m^2
	Clear Area of Opening through Screen at Average Flow	0.251	m^3/sec
		0.6	m/sec
		0.418	m^2
	Considering maximum Area of Opening through Screen	0.836	m^2
	Clear Spacing of Bars	20	mm
	Thickness of Bars	10	mm
	Gross Area of Screen	0.836 x (20+10) / 20	
		1.254	m^2
	Assuming Depth of Screen Channel	0.600	m
	Gross Width of Screen	1.254 / 0.6	
		2.090	m
	No. of Bars	(Gross Width of Screen / Center to Center Spacing of Bars) - 1	
		(2.09 / ((20 + 10)/1000) - 1	
		68.66	Nos.
	Say	69	Nos.
	Width of Screen provided	(Number of Bars+1) x Clear Spacing + (Number of Bars x Bar Thickness)	
		(69+1) x 20 + (69 x 10)	
		2090	mm
	Say	**2100**	mm
	Width of Side Frame provioded	150	mm
	Width of Screen Channel provided	**2400**	mm
	Height of Blind Plate at Bottom of Screen provided	150	mm
	Liquid Depth of Screen Channel provided	**750**	mm
	Length of Screen Channel provided	**7000**	mm
	Velocity in Channel at Average Flow	Average Flow / Cross Sectional Area of Screen Channel	
		0.251 / (2.4 x 0.75)	
		0.139	m/sec
	Required may be achieved by slope.	0.300	m/sec
	Head Loss across Screen		
	Head Loss across Screen	0.0728 (V^2 - v^2)	

Sizing Calculations & Technical Data Sheets for 64 MLD Capacity Effluent Treatment Plant Based on extended aeration at IMT Kharkhoda.

	V = Velocity through Screen at Peak Flow	Peak Flow through Screen Channel/Clear Area of Opening through Screen	
		0.896	
	v = Velocity in approach Channel at Peak Flow	Peak Flow through Screen Channel/Cross Sectional Area of Screen Channel	
		0.418	
	Head Loss across Screen at Peak Flow	0.046	
	Head Loss across Screen at 50% Clogged Condition		
	Velocity through Screen at 50% Clogged Condition at Peak Flow	1.791	
	Head Loss across screen at 50% Clogged Condition at Peak Flow	0.221	
		0.300	m/sec
	Length of Screen Channel provided	**7000**	mm
3.0.0.	**Raw Effluent Sump & Pump House: -**		
3.1.0.	**Design Parameters**		
3.1.1.	Inlet sewer pipe mmf.	1800.00	1.8
3.1.2.	Hydraulic Retention Time at peak		
	flow, Min.	3.75	
3.1.3.	Capacity, M^3/ Min.	135.42	
3.1.4.	Number of compartments	3.00	
3.1.5.	Volume, M^3.	507.81	
3.1.6.	Side Water depth, m.	1.50	
3.1.7.	Length, m.	36.80	
3.1.8.	Width, m.	9.20	
3.1.9.	Dry pump Room		
a)	Length, m.	41.80	
b)	Width,M	7.50	
c)	Ceiling Height from plinth level, M	5.00	
3.2.0.	**Raw effluent Lifting Pumps: -**		
3.2.1.	General		
a)	Application	Raw Effluent Pumping	
b)	Specific Gravity	1.03	
c)	Type.	Non- Clog Back pull type pumps.	
3.2.2.	Design Parameters		Quantity
a)	Capacity, M^3/ Hour		
	Phase- I	902.78	4 (3w+1SB)
	Phase- II	902.78	4 (3w+1SB)
	Phase- III	902.78	4 (3w+1SB)
b)	Head, MWC	As perdesign	
3.2.3.	Material of Consruction		
a)	Casing	CI	
b)	Impeller semi open	CF- 8M	
c)	Rotor Shaft	SS- 410	
d)	Fastners in Liquid	SS- 410	
e)	Motor Housing	CI	
3.2.4.	Motor		
a	Type.	TEFF, Squirrel Cage induction	
		motor	
3.2.5.	Pipe Sizes, MΦ		
	Suction: -		
	Each pump		
	21666.66667	0.42	0.250771605
		0.45	
	Delivery		M^3/ Sec
a)	21666.66667	0.36	0.25
	Say	0.40	
c)	195000	1.09	2.26
		1.10	
3.2.6.	Maximum Velocity, MPS.	**2.40**	
3.2.7.	Material of Consruction	DI	
4.0.0.	**Oil & Grease Trap cum grit chamber: -**		
4.1.0.	Flow, M^3/Sec	2.26	4(3W+1SB)
4.2.0.	Flow, M^3/ Sec/ Each Streem	0.75	

4.3.0.	Hydraulic Retention Time, Sec.	300.00	
4.4.0.	Volume, V: M^3	225.69	V
4.4.0.	Desired SWD, M	1.00	
4.5.0.	Length/ Width	1.00	
	Width of Sides, M	15.02	
	Say	15.10	
4.6.0.	Size of Sides, M	15.10	
5.0.0.	**Fine Screen (Mechanical)**	4(3W+1SB)	
	No. of Mechanical Screens	**3**	Nos.
	Design Flow	Peak Flow	
		195.00	MLD
		8125	m^3/hr
		2.257	m^3/sec
	Average Flow	65.00	MLD
		2708	m^3/hr
		0.752	m^3/sec
	Design Flow in each Screen	2.257	m^3/sec
		3	No.
		0.752	m^3/sec
	Average Flow in each Screen	0.752	m^3/sec
		3	No.
		0.251	m^3/sec
	Maximum Velocity through Screen at Peak Flow	1.0	m/sec
	Minimum Velocity through Screen at Average Flow	0.6	m/sec
	Clear Area of Opening through Screen at Peak Flow	0.752	m^3/sec
		1.0	m/sec
		0.752	m^2
	Clear Area of Opening through Screen at Average Flow	0.251	m^3/sec
		0.6	m/sec
		0.418	m^2
	Considering maximum Area of Opening through Screen	0.752	m^2
	Clear Spacing of Bars	6	mm
	Thickness of Bars	2	mm
	Gross Area of Screen	0.752 x (6+2) / 6	
		1.003	m^2
	Assuming Depth of Screen Channel	0.600	m
	Gross Width of Screen	1.003 / 0.6	
		1.672	m
	No. of Bars	(Gross Width of Screen / Center to Center Spacing of Bars) - 1	
		(1.672 / ((6 + 2)/1000) - 1	
		207.98	Nos.
	Say	208	Nos.
	Width of Screen provided	(Number of Bars+1) x Clear Spacing + (Number of Bars x Bar Thickness)	
		(208+1) x 6 + (208 x 2)	
		1670	mm
	Say	**1700**	mm
	Width of Side Frame provioded	150	mm
	Width of Screen Channel provided	**2000**	mm
	Height of Blind Plate at Bottom of Screen provided	100	mm
	Liquid Depth of Screen Channel provided	**700**	mm
	Length of Screen Channel provided	**5000**	mm
	Velocity in Channel at Average Flow	Average Flow / Cross Sectional Area of Screen Channel	
		0.251 / (2 x 0.7)	
		0.179	m/sec
	Required may be achieved by slope.	0.300	m/sec
	Head Loss across Screen		
	Head Loss across Screen	0.0728 (V^2 - v^2)	

	V = Velocity through Screen at Peak Flow	Peak Flow through Screen Channel/Clear Area of Opening through Screen	
		0.983	
	v = Velocity in approach Channel at Peak Flow	Peak Flow through Screen Channel/Cross Sectional Area of Screen Channel	
		0.537	
	Head Loss across Screen at Peak Flow	0.049	
	Head Loss across Screen at 50% Clogged Condition		
	Velocity through Screen at 50% Clogged Condition at Peak Flow	1.967	
	Head Loss across screen at 50% Clogged Condition at Peak Flow	0.261	
		0.300	m/sec
	Length of Screen Channel provided	**5000**	mm
6.0.0.	**Equalization Sump Chamber: -**		
6.1.0.	Inlet Pipe: -		
6.2.0.	Inlet Pipe, D: mΦ	1100.00	1.10
6.3.0.	Flow, M^3/Sec	2.26	Q
6.4.0.	Maximim Velocity, MPS	2.37	[Q*4/(π*D^2)]
6.5.0.	π	3.14	
6.6.0.	**Chamber: -**		
6.6.1.	Chamber:		
a	Flow, M^3/Hr.	2708.33	
b)	Hydraulic Retention Time, Hours	8.00	
c)	Number of comartments	6.00	
d)	Volume, V: M^3	21690.00	
e)	Volume/ Compartment	3615.00	
f	Number of basins/ compartment	2.00	
g	Volume per Basin, M^3	1808.00	
h	Length , M	24.60	
i	Width, M	12.30	
j	Desired SWD, M	6.00	
6.7.0.	Mixing		
6.7.1.	Desired Watts for mixing conditions		
(a)	Power Required, p=0.004*x+7, w/10^3, KW	0.01	
(b)	Total Power KW/ Hr.	35.43	
©	Number of Mixers	4.00	4
(d)	HP/ Mixer	15.00	
6.8.0.	**Equalized effluent Lifting Pumps: -**		
6.8.1.	General		
a)	Application	Screened & Equalized Effluent lifting Pump	
b)	Specific Gravity	1.03	
c)	Type.	Non- Clog Backpull Type Pumps.	
d)	Quantity each phase	3(2W+1SB)	2
6.8.2.	Design Parameters		
a)	Capacity, M^3/ Hour	451.39	
b)	Head, MWC	6.00	
6.8.3.	Material of Consruction		
a)	Casing	CI	
b)	Impeller semi open	CF- 8M	
c)	Rotor Shaft	SS- 410	
d)	Fastners in Liquid	SS- 410	
e)	Motor Housing	CI/ DI/ HDPE	
6.8.4.	Motor		
a	Type.	TEFF, Squirrel Cage induction	
		motor	
6.8.5.	Pipe Sizes, MΦ		
	Suction		
	Capacity, M^3/ Day		M^3/ Sec
	10833.33333	0.30	0.13
	Say	0.30	
	Delivery		
	10833.33333	0.26	0.13
	Say	0.30	
	21666.66667	0.36	0.25
	Say	0.40	

7.0.0.	**Flash Mixer common: -**		
7.1.0.	Design Parameters		
7.1.1.	Capacity, M^3/ Sec	0.75	M^3/Sec
7.1.2.	Hydraulic Retention Time, Sec.	60.00	Seconds
7.1.3.	Number of units	3.00	
7.1.4.	Volume, M^3	45.14	M^3
7.1.5.	Volume per Basin, M^3	15.05	M^3
7.1.6.	Side water depth/ Sides	1.50	
7.1.7.	Basin Sides, M	2.16	
		2.20	M
7.1.8.	Side water depth	3.30	M
7.1.9.	Free Board, M	0.40	M
7.2.0.	**Design Parameters**		
7.2.1.	Liquid temprature, ° C	20.00	° C
7.2.2.	Dynamic Viscocity, µ, N.s/M^2	0.00	µ, N.s/M^2
7.2.3.	Desired Velocity Gradient, G/ Sec.	300.00	PerSec
7.2.4.	Tip Velocity of the Impeller, MPS	3.00	MPS
7.2.5.	Power, P	: 1/2*CD*A*ρ*VP^3:G^2*µ*Volume	W
	Wherein;		
a)	CD	1.80	
b)	G/ sec.	300.00	
c)	ρ, Mass density, at 20 ° C in Kgs/ M^3	1000.00	
7.2.6.	Power, P	1449.99	W
7.2.7.	A, Impeller blades area in the Plane		
	of shaft, M^2	0.06	M^2
7.2.8.	Number of blades	2.00	
7.2.9.	Lendth of blades % of Basin dia/ sides	30.00	
7.2.10.	Length of Blades	0.93	M
7.2.11.	Width of Plades, m	0.06	M
7.3.0.	Motor: -		
7.3.1.	Type.	: TEFC, Squirrel cage induction	
		motor suitable for 415±6%V, 3 phase	
		AC Current.	
7.3.2.	RPM	1450.00	
7.3.3.	HP	2.43	
7.3.4.	Insulation	Class- F	
7.3.5.	Enclosure	IP- 55	
7.3.6.	Quantity	3.00	
7.4.0.	Gear Box: -		
7.4.1.	Type.	: Horizontal Input & Vertical Down	
		ward output shaft.	
7.4.2.	Reduction Ratio	0.42	
7.4.3.	Quantity	3.00	
8.0.0.	**Ferrous Sulphate Solution Tanks: -**		
8.1.0.	**Design Parameters**		
8.1.1.	Flow Rate, M^3/ Sec.	0.75	M^3/ Sec
8.1.2.	Maximum Chemical Dose, mg/ l	150.00	mg/ L
8.1.3.	Total Fe SO4 Consumption Per Day	9750.00	Kgs
8.1.4.	Net Strorage Capacity @ 10 W/ V	97.50	M^3
8.1.5.	Liquid temprature, ° C	20.00	° C
8.1.6.	Dynamic Viscocity, µ, N.s/M^2	0.00	µ, N.s/M^2
8.1.7.	Number of Units	9.00	
8.1.9.	Volume per Basin, M^3	10.83	M^3
8.2.0.	Dimensions, in M		
8.2.1.	Size of Sides of Square Basin, M	2.22	M
8.2.2.	Side Water Depth, M	2.21	M
8.2.3.	Free Board, M	0.40	M
8.2.4.	Raw Water Inlet, M	0.03	M
8.2.5.	Drain/ Coagulant outlets/ Over flow	0.08	M
8.3.0.	Metering Pumps: -		
8.3.1.	Type.	Positive displacement type.	
8.3.2.	Quantity	9(6W+3SB)	6
8.3.3.	Capacity, M^3/ Hr.	0.08	
8.3.4.	Head, MWC	10.00	
9.0.0.	**Ferrous Chloride Solution Tanks: -**		

Sizing Calculations & Technical Data Sheets for 64 MLD Capacity Effluent Treatment Plant Based on extended aeration at IMT Kharkhoda.

9.1.0.	**Design Parameters**		
9.1.1.	Flow Rate, M^3/ Sec.	0.75	M^3/ Sec
9.1.2.	Maximum Chemical Dose, mg/ l	10.00	mg/ L
9.1.3.	Total Fe Cl3 Consumption Per Day	650.00	Kgs
9.1.4.	Net Strorage Capacity @ 5 W/ V	13.00	M^3
9.1.5.	Liquid temprature, ° C	20.00	° C
9.1.6.	Dynamic Viscocity, µ, N.s/M^2	0.00	µ, N.s/M^2
9.1.7.	Number of Units	9.00	
9.1.8.	Volume per Basin, M^3	1.44	M^3
9.2.0.	Dimensions, in M		
9.2.1.	Size of Sides of Square Basin, M	1.13	M
9.2.2.	Side Water Depth, M	1.13	M
9.2.3.	Free Board, M	0.40	M
9.2.4.	Raw Water Inlet, M	0.02	M
		0.02	M
9.2.5.	Drain/ Coagulant outlets/ Over flow	0.08	M
9.3.0.	Metering Pumps: -		
9.3.1.	Type.	Positive displacement type.	
9.3.2.	Quantity	9(6W+3SB)	6
9.3.3.	Capacity, M^3/ Hr.	0.01	
9.3.4.	Head, MWC	10.00	
10.0.0.	**Lime Solution Tanks: -**		
10.1.0.	**Design Parameters**		
10.1.1.	Flow Rate, M^3/ Sec.	0.75	M^3/ Sec
10.1.2.	Maximum Chemical Dose, mg/ l for flocculator	80.00	mg/ L
	For Tertiary Treatment	20.00	
10.1.3.	Total Lime Consumption Per Day	6500.00	Kgs
10.1.4.	Net Strorage Capacity @ 5% W/ V	130.00	M^3
10.1.5.	Liquid temprature, ° C	20.00	° C
10.1.6.	Dynamic Viscocity, µ, N.s/M^2	0.00	µ, N.s/M^2
10.1.7.	Number of Units	9.00	
10.1.8.	Volume per Basin, M^3	14.44	M^3
10.2.0.	Dimensions, in M		
10.2.1.	Size of Sides of Square Basin, M	2.44	M
10.2.2.	Side Water Depth, M	2.43	M
10.2.3.	Free Board, M	0.40	M
10.2.4.	Raw Water Inlet, M	0.02	M
		0.03	M
10.2.5.	Drain/ Coagulant outlets/ Over flow	0.08	M
10.3.0.	Screw Pumps: -		
10.3.1.	Type.	Screw Pumps	
10.3.2.	Quantity	6(3W+3SB)	3
10.3.3.	Capacity, M^3/ Hr.	0.30	
10.3.4..	Head, MWC	10.00	
11.0.0.	**Polyelectrolyte Solution Tanks for each flocculator: -**		
11.1.0.	**Design Parameters**		
11.1.1.	Flow Rate, M^3/ Sec.	0.38	M^3/ Sec
11.1.2.	Maximum Chemical Dose, mg/ l	2.00	mg/ L
11.1.3.	Total Consumption Per Day	130.00	Kgs
11.1.4.	Net Strorage Capacity @ 0.2% W/ V	65.00	M^3
11.1.5.	Liquid temprature, ° C	20.00	° C
11.1.6.	Dynamic Viscocity, µ, N.s/M^2	0.00	µ, N.s/M^2
11.1.7.	Number of Units	6.00	
11.1.8.	Volume per Basin, M^3	10.83	M^3
11.2.0.	Dimensions, in M		
11.2.1.	Size of Sides of Square Basin, M	2.22	M
11.2.2.	Side Water Depth, M	2.21	M
11.2.3.	Free Board, M	0.40	M
11.2.4.	Raw Water Inlet, M	0.02	M
11.2.5.	Drain/ Coagulant outlets/ Over flow	0.04	M
12.0.0.	**Metering Pumps: -**		
12.1.1.	Type.	Positive displacement type.	
12.1.2.	Quantity	6(3W+3SB)	3
12.1.3.	Capacity, M^3/ Hr.	0.20	
12.1.4.	Head, MWC	10.00	

13.0.0.	**Polyelectrolyte Solution Tanks for Belt Press: -**		
13.1.0.	**Design Parameters**		
13.1.1.	TSS, MT.	53.21	
13.1.2.	Maximum Chemical Dose, Kgs/MT	2.00	Kgs/ MT
13.1.3.	Total Consumption Per Day	106.42	Kgs
13.1.4.	Net Strorage Capacity @ 0.4% W/ V	26.60	M^3
13.1.5.	Liquid temprature, ° C	20.00	° C
13.1.6.	Dynamic Viscocity, μ, N.s/M^2	0.00	μ, N.s/M^2
13.1.7.	Number of Units	3.00	
13.1.8.	Volume per Basin, M^3	8.87	M^3
13.2.0.	Dimensions, in M		
13.2.1.	Size of Sides of Square Basin, M	2.07	M
13.2.2.	Side Water Depth, M	2.06	M
13.2.3.	Free Board, M	0.40	M
13.2.4.	Raw Water Inlet, M	0.02	M
13.2.5.	Drain/ Coagulant outlets/ Over flow	0.04	M
13.3.0.	**Metering Pumps: -**		
13.3.1.	Type.	Positive displacement type.	
13.3.2.	Quantity	6(3W+3SB) 1 W each service chemical & biologi	3
13.3.3.	Capacity, M^3/ Hr.	0.20	
13.3.4.	Head, MWC	40.00	
14.0.0.	**Chemical Store: -**		
14.1.0.	**Total Chemical consumptions: -**		
14.1.1.	FeSO4 Consumptions/ Day	3250.00	Kgs/ Day
	Ferric Chloride/ Day	216.67	
14.1.2.	Lime Consumtion Per day	2166.67	Kgs/ Day
14.1.3.	Polyelectrolyte Consumption Per day	236.42	Kgs/ Day
14.2.0.	Storage period, Days	30.00	
14.3.0.	Total Storage Quantity	169592.54	Kgs
14.4.0.	Density, Kgs/ M^3	1200.00	
14.5.0.	Volume, M^3	141.33	M^3
14.6.0.	Stake Height, m	1.50	
14.7.0.	Surface Area, M^2	94.22	M^2
14.8.0.	Free Space %	30.00	
14.9.0.	Tota;l Area Provided, M^2	130.00	M^2
15.0.0.	**Flocculator: -**		
15.1.0.	Design Parameters: -		
15.1.1.	Type.		
15.1.2.	Number of Basin	3.00	
15.1.3.	Total Hydraulic Retension Time, Min.	30.00	Min.
15.1.4.	Velocity Gradient/ Sec.	60.00	≤
15.1.5.	Tip Velocities V, MPS: -	0.60	
15.1.6.	Liquid temprature, ° C	20.00	° C
15.1.7.	Dynamic Viscocity, μ, N.s/M^2	0.00	μ, N.s/M^2
15.2.0.	Design Calculations: -		
15.2.1.	Volume per Basin, M^3	451.39	V
15.2.2.	Desired SWD, m	3.00	WD
15.2.3.	Width of flocculation Basin, M	12.30	((V/WD+π*OD^2/4)*4/π)^0.5
15.2.4.	Free Board, M	0.40	M
15.3.0.	Power Requirement, P: -		
15.3.1.	Power, P	: 1/2*CD*A*ρ*VP^3:G^2*μ*Volume	
	Wherein;		
a)	CD	1.80	
b)	G/ sec.	60.00	
c)	ρ, Mass density, at 20 ° C in Kgs/ M^3	1000.00	
d)	Power, P	1639.14	
e)	A, Impeller blades area in the Plane		
	of shaft, M^2	8.43	
15.3.2.	Impeller Diameter: -	2*RPM*π/(V*30)	
	Impeller Diameter	4.81	M
	Desired RPM	13.80	
	Impeller Length, M	2.50	M
	Number of blades	16.00	
	Width, M	0.21	M
15.3.3.	Motor: -		

	Type.	: TEFC, Squirrel cage induction	
		motor suitable for 415±6%V, 3 phase	
		AC Current.	
	RPM	1450.00	
	HP	2.00	
	Insulation	Class- F	
	Enclosure	IP- 55	
	Quantity	1 Numer each	
15.3.4.	Gear Box: -		
	Type.	: Horizontal Input & out put shaft with	
		Bevel gear with 7:1 reduction.	
	Reduction Ratio	50.00	
	Quantity	1 Numer each	
16.0.0.	**Clarifier: -**		
16.1.0.	Design Parameters: -		
16.1.1.	Type.	Circular	
16.1.2.	Number of basins	3.00	
16.1.3.	Capacity, M^3/D	65000.00	
16.1.4.	Hydraulic Retension Time, Min.	150.00	
16.1.5.	Surface Loading, M^3/ M^2/ Day	30.00	
16.1.6.	Weir Loading, M^3/ M/ Day	300.00	≤
16.2.0.	**Design Calculations: -**		
16.2.1.	Volume, M^3	6770.83	M^3
16.2.2.	Volume, M^3/ Each	2256.94	M^3
16.2.3.	Total Surface Area, M^2	2166.67	M^2
	Total Surface Area, M^2/ Each	722.22	M^2
16.2.4.	Side Water Depth, M	3.13	M
16.2.5.	Diameter, m	32.72	((V/WD+π*OD^2/4)*4/π)^0.5
	Say	32.80	M
16.3.0.	Launder: -		
16.3.1.	Launder length, M	216.67	M
16.3.2.	Number of launders, total.	2.00	
16.3.3.	Launder length, m	108.33	11.3.1./ 11.3.2.
16.3.4.	Maximum Flow, M^3/ Sec.	0.75	M^3/ Sec.
16.3.5.	Maximum Flow, M^3/ Launder/ Sec.	0.38	M^3/ Sec.
16.3.6.	Maximum Velocity, MPS	0.90	MPS
16.3.7.	Flow section Area, M^2	0.42	M^2
16.3.8.	Width, m	0.91	M
16.3.9.	Liquid Depth, M	0.46	M
16.4.0.	Outlet/ inlet: -		
16.4.1.	Inlet from flash mixer to flocculation chamber		
	Maximum Flow, M^3/ Sec.	0.38	M^3/ Sec.
	Maximum Velocity, MPS	1.00	MPS
	Flow section Area, M^2	0.38	M^2
	Pipe dia, M	0.69	
16.4.2.	Inlet from Settling Basin to inlet of Aeration tank: -		
	Maximum Flow, M^3/ Sec.	0.13	M^3/ Sec.
	Maximum Velocity, MPS	0.90	MPS
	Flow section Area, M^2	0.14	M^2
	Width, m	0.53	M
	Say	0.53	
	Liquid Depth, M	0.26	M
17.0.0.	**Effluent Characterstics after primary Treatment.**		
17.1.0.	Influent Sewage Charcterstics.		
17.1.1.	BOD5	360.00	
17.1.2.	Influent BOD5 kgs/ Day	23400.00	
17.1.3.	TSS	540.00	
17.1.4.	Influent TSS, Kgs/ Day	35100.00	
17.1.5.	COD, mg/ L	675.00	
17.1.6.	Influent COD, Kgs/ Day	43875.00	
18.0.0.	**Aeration Tank: -**		
18.1.0.	Design Parameters		
18.1.2.	Type.	Rectangular	
18.1.3.	Basis of Design	Complete Mix	
18.1.4.	Flow Regime	Complete Mix	

Sizing Calculations & Technical Data Sheets for 64 MLD Capacity Effluent Treatment Plant Based on extended aeration at IMT Kharkhoda.

18.1.5.	MLSS. Mg/ L	3000- 5000	4000
18.1.6.	F/ M: Q*So/ XV, KgsBOD5/ KgsMLSS/ Day	0.08 to 0.18	
18.1.7.	Hydraulic Retension Time, θ in Hours	12 to 36	
18.1.8.	Sludge Retension Time, θc, days	10 to 25	30
18.2.0.	**Effluent BOD5 & efficiency: -**		
18.2.1.	S: (1/ uc + K_D)/ κ' У, mg/ L	4.63	mg/L
	Wherein;		
a)	K'	0.03	
b)	У	0.60	
c)	K_D	0.05	
d)	θc	30.00	
e)	Desired SS in effluent	20.00	
18.2.2.	MLVSS/ MLSS	0.70	
a)	BOD_5 of MLVSS in effluent, mg/ L.	8.40	
b)	Total effluent BOD_5, mg/ L.	13.03	
c)	Over all BOD_5 removal efficiency	96.38	<98%
18.2.3.	Kg O_2/ Kg BOD_5 removed.	1.20	1 to 1.2
18.3.0.	**Effluent Data**		
18.3.1.	Q, m^3/Day.	65000.00	
18.3.2.	BOD_5, mg/l.	13.03	
18.3.3.	Efficiency:	96.38	
18.3.4.	BOD_5 removal in aeration tank, (So - S) x Q/ 1000.	22553.07	
18.4.0.	Aeration Tank Design		
18.4.1.	Assumed MLSS, mg/l.	4000.00	
18.4.2.	MLVSS, mg/ L, X	2800.00	
18.4.3.	Tank Volume, m^3, V: Y* θc* Q (S0- S)/ (1+KD*θC) *X	57993.62	
18.4.4.	Hydraulic Retension Time	21.41	Hours
18.4.5.	F/ M: Q *(S0-S) / (X* V)	0.14	<0.18
18.5.0.	**Surplus Sludge production.**		
18.5.1.	Net MLVSS produced: X V/ u c, Kgs/ Day.	5412.74	
18.5.2.	In terms of SS, Kg s /Day	7732.48	
18.5.3.	The volume of sludge to be with drawn @ 0.8% W/V from		
	settling tank, m ^3/ Day.	966.56	
18.5.4.	MLSS, mg/ L.	7500.00	
18.5.5.	Sludge recycling, %	114.29	
18.5.6.	MLVSS production/ BOD_5 removed.	0.24	
18.5.7.	SS production/ BOD_5 removed	0.34	
18.5.8.	Quantity of waste activated sludge, Kg s/ Day		
a)	Y_{OBS}: Y/ (1+ KD* uc): 0.5/ (1 + 0.05 x 20)	0.24	
b)	Px: Y_{OBs} x Q (So- S)*10^(-3)	5412.74	
18.5.9.	Increase in MLSS	7732.48	
18.5.10	TSS in waste activated sludge	Increase in TSS- TSS Lost in the effluent	
		6432.48	
18.5.11	BOD_5 in waste activated sludge	3397.25	
18.5.12	Soluble BOD_5		
18.5.13	MLSS Concentration TSS/ MLSS.	1933.12	
18.5.14	Soluble BOD_5	8.95	
18.5.15	Total BOD_5 in waste activated sludge	3406.20	
	Note: - Biological solids are 65% biodegradable, 1 gram of biodegradable solids: 1.42 gram of ultimate BOD		
	& BOD5: 0.68 x Ultimate BOD.		
18.6.0.	**Oxygen & power requirement**		
18.6.1.	Theoretical Oxygen requirement, O_2 Kg/ Day		
	Q* (S_o- S)/ (BOD_5, BOD_L) – 1.42* P x	26283.14	
18.6.2.	Oxygen transfer in field conditions N Kg s/ Hr	31539.77	
	$N:N_o[(C_{WALT}\ b\ - C_L)/\ CSW]\ \alpha\ x\ (1.024)^{T-20}$		
	Wherein;		
a)	N, Theoretical Oxygen requirement, Kg s/ Day		
b)	No: Theoretical Oxygen transfer in pure water	31539.77	
c)	CL: Operating oxygen concentration, mg/ L	2.00	
d)	CWALT: Solubility of Oxygen in tap water at field conditions		
	at 25^0 C with 2000 PPM TDS	6.95	
e)	CW: Solubility of Oxygen in tap water at standard conditions	9.15	
f)	b: Salinity surface tension factor, usually 0.90 for wastewate	0.90	

g)	a: Oxygen transfer correction factor	0.65	
h)	Oxtgen requirement at field conditions	49635.59	
q)	Oxygen% by weight in air, %	0.23	
r)	Air Density	1.21	
s)	Diffuser efficiency, %	25.00	
t)	Air requirement, M^3/ Hr.	29469.21	
u)	Air required for mixing, M^3/ M^3 reactor volume/ Hour.	0.65	
v)	Air required for mixing conditions, M^3/ Hr.	37695.85	
w)	Air provided, M^3/ hr.	37695.85	
18.7.0.	**Dimensions of aeration tanks**		
18.7.1.	Desired Water depth, M	4.50	
18.7.2.	Surface area, M^2	12887.47	
18.8.0.	Total number of Basins	6.00	
18.8.1.	Surface area of each phase Rectangular Basins	2147.91	
18.8.2.	Width, m	32.80	
18.8.3.	Length, M	65.60	
18.8.4.	Free Board	0.60	
18.9.0.	**Air Blowers: -**		
18.9.1.	Type.	Twin Lobe	
18.9.2.	Quantity	12(9W+3SB)	9
18.9.3.	Flow, m^3/ Hr.	37695.85	
	Say M^3/ Hr./ Each	4200.00	
18.9.4.	Discharge Pressure, Kgf/ cm^2 g	0.60	
18.9.5.	Delivery, mm	0.30	
18.9.6.	Motor: -		
a)	Type.	: TEFC, Squirrel cage induction	
b)		motor suitable for 415±6%V, 3ph	
c)	RPM	1450.00	
d)	HP		as per data sheet
e)	Insulation	Class- F	
f)	Enclosure	IP- 55	
19.0.0.	**Secondary Clarifiers: -**		
19.1.0.	**Design parameters**		
	Quantity	6.00	
	Surface loading rate, Q/A, m3/m2/day at average	10.00	
	Solid loading rate, kg/m2/day at average	80.00	
	Weir loading at average flow, m3/m/d	185.00	
	Solid concentration, %	0.80	
	SWD, m	**3.50**	
	Average design flow, m3/d	65000.00	
	Return Sludge flow, m3/ Day, Qr.	74285.71	
	Total Average flow to clarifier, m3/day	139285.71	
19.2.0.	Inlet Shaft: -		
a)	Flow, M^3/Sec	0.27	Q
b)	Maximim Velocity, MPS	1.00	[Q*4/(π*D^2)]
c)	π	3.14	
d)	Inner Dia of shaft, M	0.58	M
	Say	0.60	
e)	Outer Dia of shaft, M	1.00	
19.3.0.	Dimensions.		
a)	Required surface area at average flow, M^2	6500.00	
b)	Available solids loading at peak flow.	6964.29	
19.3.1.	Check for overflow rate.		
a)	At average flow, M^3/ M^2/ Day	10.00	<15 M^3/M^2/Day
b)	Area Provided, M^2	6964.29	
19.3.2.	Influent Box	10.00	% of clarifier diameter
a)	Surface Area, M^2.	1160.71	M^2
b)	Diameter of each clarifier.	38.90	M
	Say	39.00	M
c)	Influent Box Diameter, mmϕ.	5.77	
d)	Say	6.00	M
19.4.0.	**Launder design.**		
19.4.1	Launder Design: -		
19.4.2	Maximum Flow, M^3/ Sec.	0.75	
19.4.3.	Maximum flow, M^3/ Sec./ clarifier	0.13	

19.4.4.	Maximum flow, M^3/ Sec/ half clarifier	0.06	
19.4.5	Maximum Velocity, MPS.	0.90	
19.4.6	**Flow section Area, M^2**	0.07	
19.4.7	Width/ Liquid depth	2.00	
19.4.8	Width, m.	0.37	
19.4.9	Liquid depth, M	0.19	
19.5.0	**Slope**	1.00	In 10
20.0.0	**Sewage characteristics.**		
20.1.0.	Volume of sludge.	Primary + Waste activated	
	Primary	860.99	M^3/ Day
	Secondary	966.56	
20.2.0.	BOD_5	9247.25	Kgs/ Day
20.3.0.	TSS	42900.00	Kgs/ Day
20.3.1.	Due to FeSO4	7605.00	
20.3.2.	Due to Lime	2704.00	kgs.
20.4.0.	Total TSS in Kgs	53209.00	
20.5.0.	Total Volume Chemical, M^3	860.99	
21.0.0.	**Chemical sludge Sump**		
21.1.1.	General.		
21.1.2	Type.	Circular with mixer.	
21.1.3	Quantity	1.00	Units
21.1.4	Design		
21.1.5	Total Volume of flow, M^3/ Day.	860.99	
21.1.6	HRT, Hours	2.00	
21.1.7	Volume, M^3	71.75	
21.2.0.	**Chemical Sludge Pumps.**		
21.2.1.	General		
a)	Application	Combined Sludge	
b)	Specific Gravity	1.03	
c)	Type.	Non- Clog submersible type	
d)	Quantity	4(3W+1SB)	3
21.2.2.	Design Parameters		
a)	Capacity, M^3/ Hour	15.94	
b)	Head, MWC	20.00	
c)	Number of Stages		
d)	Efficiency, %		
e)	BKW		
f)	Motor, KW		
g)	Maximum solid handling size, mm	40.00	
21.2.3.	Material of Consruction		
a)	Casing	CF- 8M	
b)	Impeller semi open	CF- 8M	
c)	Rotor Shaft	SS- 410	
d)	Fastners in Liquid	SS- 410	
e)	Motor Housing	CI	
21.3.0.	**Biological Sludge Sump.**		
21.3.1.	Hydraulic Retension Time, Min.	20.00	
21.3.2.	Flow, M^3/Sec	0.87	
21.3.3.	Volume, M^3.	1045.17	
22.0.0.	**Biological Sludge Pumps.**		
22.1.0.	General		
a)	Application	Activated Sludge	
b)	Specific Gravity	1.03	
c)	Type.	Non- Clog Back Submersible type	
d)	Quantity, RAS	4(3W+1SB)	3
	Quantity, EAS	4(3W+1SB)	
22.2.0.	Design Parameters		
	Return Activated Sludge: -		
	Capacity, M^3/ Hour	2708.33	
	Head, MWC	10.00	
	Excess Activated Sludge: -		
a)	Capacity, M^3/ Hour	13.42	
b)	Head, MWC	20.00	
c)	Number of Stages		
d)	Efficiency, %		

e)	BKW		
f)	Motor, KW		
g)	Maximum solid handling size, mm	40.00	
22.3.0.	Material of Consruction		
a)	Casing	CF- 8M	
b)	Impeller semi open	CF- 8M	
c)	Rotor Shaft	SS- 410	
d)	Fastners in Liquid	SS- 410	
23.0.0.	**Centrifuge/ Belt Filter Press**		
23.1.0.	Type.	Centrifugal	
23.2.0.	Quantity	2(1w+1sb) each for chemical & biological	1
23.3.0.	Capacity, M^3/ Hr. for chemical	15.94	
23.4.0.	Capacity, M^3/ Hr. for Biological	13.42	
24.0.0.	**DAP Solution Tanks: -**		
24.1.0.	Design Parameters		
24.1.1.	Flow Rate, M^3/ Day	65000.00	M^3/ Day
24.1.2.	Maximum Chemical Dose, mg/ l	21.97	mg/ L
24.1.3.	Total DAP Consumption Per Day	1427.97	Kgs
	Phosphoorue10 % in DAP	23.67	By weight
	Phosphoorue dose, per 100 Gram of BOD5	1.00	
	BOD5	520.00	
24.1.4.	Net Strorage Capacity @ 5% W/ V	28.56	M^3
24.1.5.	Liquid temprature, ° C	20.00	° C
24.1.6.	Dynamic Viscocity, μ, N.s/M^2	0.00	μ, N.s/M^2
24.1.7.	Number of Units	6.00	
24.1.8.	Volume per Basin, M^3	4.76	M^3
24.1.9.	Reunold's Number	D^2*ρ*η/ μ	
		316714.43	
	Wherein;		
a)	D, Diameter of impeller, M	Basin Sides or Diameter/3	M
b)	Basin Sides/ Height	2.00	
c)	ρ, Mass density, at 20 ° C in Kgs/ M^3	1000.00	
d)	η, Impeller rotation / Sec.	0.81	
24.1.10	Power requitrement, P	: **k r h^3 D^5**	
a)	k, Constant	6.30	
		326.18	W
25.0.0.	Dimensions, in M		
25.1.1	Size of Sides of Square Basin, M	1.34	M
25.1.2	Side Water Depth, M	2.67	M
25.1.3	Impeller: -		
25.1.4	Impeller Diameter	0.63	M
25.1.5	Impeller Blade Width, M	0.13	M
25.1.6	Impeller Blade length, M	0.16	M
25.1.7	Impeller Blade length mounted on		
	the central disc, M	0.08	M
25.1.8	Central Disc Diameter, M	0.47	M
25.1.9	Raw Water Inlet, M	0.02	M
25.1.10	Drain/ Coagulant outlets/ Over flow	0.04	M
26.0.0.	Motor: -		
26.1.1.	Type.	: TEFC, Squirrel cage induction	
		motor suitable for 415±6%V, 3 phase	
		AC Current.	
26.1.2	RPM	1450.00	
26.1.3	HP	3.00	HP
26.1.4	Insulation	Class- F	
26.1.5	Enclosure	IP- 55	
26.1.6	Quantity	6.00	
26.2.0.	Gear Box: -		
26.2.1.	Type.	: Horizontal Input & Vertical Down	
		ward output shaft.	
26.2.2.	Reduction Ratio	30.00	
26.2.3.	Quantity	6.00	
27.0.0.	**Metering Pumps: -**		
27.1.1.	Type.	Metering Pumps.	
27.1.2.	Capacity, M^3/ Hr.	0.20	

27.1.3.	Head, MWC	15.00	
27.1.4.	Quantity	3(2W+1SB)	
28.0.0.	**Urea Solution Tanks: -**		
28.1.0.	**Design Parameters**		
28.1.1.	Flow Rate, M^3/ Day	65000.00	M^3/ Day
28.1.2.	Maximum Chemical Dose, mg/ l	38.57	mg/ L
28.1.3.	Total Urea Consumption Per Day	2506.96	Kgs
	N % in Urea	46.67	By weight
	N dose, per 100 Gram of BOD5	5.00	
	BOD5	360.00	
28.1.4.	Net Strorage Capacity @ 5% W/ V	50.14	M^3
28.1.5.	Liquid temprature, ° C	20.00	° C
28.1.6.	Dynamic Viscocity, μ, N.s/M^2	0.00	μ, N.s/M^2
28.1.7.	Number of Units	6.00	
28.1.8.	Volume per Basin, M^3	8.36	M^3
28.1.9.	Reunold's Number	D^2*ρ*η/ μ	
		732883.37	
	Wherein;		
a)	D, Diameter of impeller, M	Basin Sides or Diameter/3	M
b)	Basin Sides/ Height	1.00	
c)	ρ, Mass density, at 20 ° C in Kgs/ M^3	1000.00	
d)	η, Impeller rotation / Sec.	0.81	
28.1.10	Power requitrement, P	**: k r h^3 D^5**	
a)	k, Constant	6.30	
		2656.93	W
28.2.0.	Dimensions, in M		
28.2.1.	Size of Sides of Square Basin, M	2.03	M
28.2.2.	Side Water Depth, M	2.02	M
28.2.3.	Free Board, M	0.40	M
28.2.4.	Raw Water Inlet, M	0.02	M
28.2.5.	Drain/ Coagulant outlets/ Over flow	0.04	M
28.3.0.	Impeller: -		
28.3.1.	Impeller Diameter	0.96	M
28.3.2.	Impeller Blade Width, M	0.19	M
28.3.3.	Impeller Blade length, M	0.24	M
28.3.4.	Impeller Blade length mounted on		
	the central disc, M	0.12	M
28.3.5.	Central Disc Diameter, M	0.72	M
28.4.0.	Motor: -		
28.4.1.	Type.	: TEFC, Squirrel cage induction	
		motor suitable for 415±6%V, 3 phase	
		AC Current.	
28.4.2.	RPM	1450.00	
28.4.3.	HP	3.00	HP
28.4.4.	Insulation	Class- F	
28.4.5.	Enclosure	IP- 55	
28.4.6.	Quantity	6.00	
28.4.7.	Gear Box: -		
28.4.8.	Type.	: Horizontal Input & Vertical Down	
		ward output shaft.	
28.5.2.	Reduction Ratio	30.00	
28.5.3.	Quantity	6.00	
28.6.0.	**Metering Pumps: -**		
28.6.1.	Type.	Metering Pumps.	6
28.6.2.	Capacity, M^3/ Hr.	1.10	
28.6.3.	Head, MWC	15.00	
28.6.4.	Quantity	9(6W+3SB)	
29.0.0.	Treated Effluent Sump/ UGT:-		
	Capacity as per M^3	2416.67	
	SWD, m	4.00	
	Quantity	3.00	
	Length, M	24.60	
	Width,M	8.20	
	Free Board, M	0.50	

Sizing Calculations & Technical Data Sheets for 64 MLD Capacity Effluent Treatment Plant Based on extended aeration at IMT Kharkhoda.

30.0.0.	**Treated Effluent Lifting Pumps: -**		
	Type.	Non Clog Submersible Pumps	
	Quantity	9(6W+3SB)	
	Working pumps	6.00	
	Flow, m^3/ Hr.	**451.39**	
	Discharge Pressure, Kgf/ cm^2 g	**3.00**	
	Suction, m ϕ @ 1.5m/sec	0.35	
	Delivery, m ϕ @ 2.1m/sec	0.35	
	Header, m ϕ @ 2.0m/sec	0.65	
	Motor: -		
	Type.	: TEFC, Squirrel cage induction	
		motor suitable for 415±6%V, 3 ph	
	RPM	1450.00	
	HP		
	Insulation	Class- F	
	Enclosure	IP- 55	
31.0.0.	**Pressure Sand Filters: -**		
31.1.0.	**Design Parameters: -**		
a)	FitItration Rate, m^3/m^2/ Hour	9.00	
b)	Backwashing, $m^3/ m^{2/}$ Hour	36.00	
c)	Air Scouring, m^3/ m^2/ Hour	45.00	
31.2.0.	Estimation of sand bed depth, L	$Q * D^3 * H/ (29323 * B)$	
a)	Q, FitItration Rate, m^3/m^2/ Hour	9.00	
b)	Head loss in filter at the end of filter cycle, m	4.00	
c)	Break through index.		
	Response to coagulation.	Value of B.	Degree of
	Poor.		Pretreatment.
	Average.	0.00	Poor
	Average.	0.00	Average.
	Average.	0.00	High.
	Average.	0.00	Excellent
d)	Sand Size, mm (range 0.4-0.65)	0.55	
e)	Sand Bed Depth, m	0.51	
	Say	0.90	m
f)	Gravels in inches / M.	k(Log. D + 1.4)	
	Numerical Value of coefficient, κ.	12.00	
	Size of gravels, In inches, D.	Gravels Depth in Inches.	
	For 15mm or ½"ϕ	13.19	
	For 10mm or ¼"ϕ	9.58	
	For 5mm or 1/5" ϕ	8.41	
	Total Grave Depth, inches	13.19	Inches
	Say, m	0.40	
31.3.0.	Dimensions: -		
	Total Filter Bed Area, m^2	300.93	
	Number of filters.	39.00	
	Each Filter Bed section Area, m^2	7.72	a
	Diameter, M	3.20	
	HOS, M	1.75	
31.3.0.	Filter Inlet pipe, **ϕ in m**		
a)	Maximum Flow, m^3/ Sec.	0.79	
b)	Number of filters	33.00	
d)	Maximum Flow per filter, m^3/Sec.	0.02	
e)	Maximum Velocity, m/sec	2.10	
f)	Pipe ϕ in m	0.20	
31.4.0.	Filter outlet pipe, **ϕ in m**		
a)	Maximum Flow, m^3/ Sec.	0.79	
b)	Number of filters section	33.00	
d)	Maximum Flow per filter, m^3/Sec.	0.02	
e)	Maximum Flow per filter section, m^3/Sec.	0.02	
f)	Maximum Velocity, m/sec	2.10	
g)	Pipe, ϕ, m per filter section	0.20	
31.5.0.	Backwash inlet pipe, **ϕ in m**		
a)	Maximum Flow, m^3/ Sec.:	0.08	

b)	Maximum Flow per filter section, m^3/Sec.	0.08	
c)	Maximum Velocity, m/sec	2.10	
d)	Pipe, ϕ, m per filter section	0.20	
31.6.0.	Filter back wash outlet pipe, **ϕ in m**		
a)	Maximum Flow, m^3/ Sec.:a*2*36/3600	0.08	
b)	Maximum Flow per filter section, m^3/Sec.	0.08	
c)	Maximum Velocity, m/sec	2.10	
d)	Pipe, ϕ, m, per filter section	0.20	
31.7.0.	Air Scouring inlet pipe, **ϕ in m**		
a)	Maximum Flow, m^3/ Sec.:a*2*45/3600	0.10	
c)	Maximum Flow per filter section, m^3/Sec.	0.10	
d)	Maximum Velocity, m/sec	20.00	
e)	Pipe, ϕ, m per filter section	0.10	
31.8.0.	Pressure Vessel Design		
	Working Pressure, Kgf/ cm^2g	4.00	
	Design Pressure, Kgf/ cm^2g	4.50	
	Test Pressure, Kgf/ cm^2g	6.75	
	Design Code		
	Vessel, Non fored pressure vessels	IS- 2825	
	Terrispherical, Dishends	IS- 4049	
	MOC, MS plates	IS- 2062	
31.9.0.	Vessel Thickness		
	Formula, thickness t	PDI/(200*f*j-P)	0.010519395
	P	Design Pressure	4.5
	DI	Inner Diameter in M	3.2
	f	Allowanle stress,	9.81
	j	joint factor	0.7
	Corrision Allowence	1.5 mm	0.0015
	Shell thickness, mm	0.01	Say 10 mm
	Dishend thickness, mm		12 mm.
31.10.0	Lining		
	Inner surface	5 mm thick rubber lining	
	Outer surface	Epoxy	
32.0.0.	**Acticated Carbon Filters: -**		
32.1.0.	Design Parameters: -		
a)	Fitltration Rate, m^3/m^2/ Hour	9.00	
b)	Backwashing, m^3/ $m^{2/}$ Hour	39.00	
c)	Air Scouring, m^3/ m^2/ Hour	NA	
32.2.0.	Estimation of Carbon bed depth, L	$Q * D^3 * H / (29323 * B)$	
a)	Q, Fitltration Rate, m^3/m^2/ Hour	9.00	
b)	Head loss in filter at the end of filter cycle, m	2.00	
C)	Carbon Size, mm (range 0.8-1.2)	0.80	
d)	Bed Depth, M	1.40	m
32.3.0.	Dimensions: -		
	Total Filter Bed Area, m^2	300.93	
	Number of filters.	39.00	
	Each Filter Bed section Area, m^2	7.72	a
	Diameter, M	3.20	
	HOS, M	2.52	
32.4.0.	Filter Inlet pipe, **ϕ in m**		
a)	Maximum Flow, m^3/ Sec.	0.79	
b)	Number of filters	33.00	
d)	Maximum Flow per filter, m^3/Sec.	0.02	
e)	Maximum Velocity, m/sec	2.10	
f)	Pipe ϕ in m	0.20	
32.5.0.	Filter outlet pipe, **ϕ in m**		
a)	Maximum Flow, m^3/ Sec.	0.79	
b)	Number of filters section	33.00	
d)	Maximum Flow per filter, m^3/Sec.	0.02	
e)	Maximum Flow per filter section, m^3/Sec.	0.02	
f)	Maximum Velocity, m/sec	2.10	
g)	Pipe, ϕ, m per filter section	0.20	
32.6.0.	Backwash inlet pipe, **ϕ in m**		

a)	Maximum Flow, m^3/ Sec.:	0.08	
b)	Maximum Flow per filter section, m^3/Sec.	0.08	
c)	Maximum Velocity, m/sec	2.10	
d)	Pipe, ϕ, m per filter section	0.20	
32.7.0.	Filter back wash outlet pipe, **ϕ in m**		
a)	Maximum Flow, m^3/ Sec.:a*2*36/3600	0.08	
b)	Maximum Flow per filter section, m^3/Sec.	0.08	
c)	Maximum Velocity, m/sec	2.10	
d)	Pipe, ϕ, m, per filter section	0.20	
32.8.0.	Air vent pipe, **ϕ in m**		
a)	Maximum Flow, m^3/ Sec.:	0.08	
c)	Maximum Flow per filter section, m^3/Sec.	0.08	
d)	Maximum Velocity, m/sec	20.00	
e)	Pipe, ϕ, m per filter section	0.10	
32.9.0.	Pressure Vessel Design		
	Working Pressure, Kgf/ cm^2g	4.00	
	Design Pressure, Kgf/ cm^2g	4.50	
	Test Pressure, Kgf/ cm^2g	6.75	
	Design Code		
	Vessel, Non fored pressure vessels	IS- 2825	
	Terrispherical, Dishends	IS- 4049	
	MOC, MS plates	IS- 2062	
32.10.0	Vessel Thickness		
	Formula, thickness t	PDI/(200*f*j-P)	0.010519395
	P	Design Pressure	4.5
	DI	Inner Diameter in M	3.2
	f	Allowanle stress,	9.81
	j	joint factor	0.7
	Corrision Allowence	1.5 mm	0.0015
	Shell thickness, mm	0.01	Say 10 mm
	Dishend thickness, mm		12 mm.
32.11.0	Lining		
	Inner surface	5 mm thick rubber lining	
	Outer surface	Epoxy	
33.0.0.	**Air Blowers: -**		
33.1.0.	Type.	Twin Lobe	
33.2.0.	Quantity	2(1W+1SB)	
33.3.0.	Flow, m^3/ Hr.	694.44	
	Say	695.00	
33.4.0.	Discharge Pressure, Kgf/ cm^2 g	0.40	after hydraulics
33.5.0.	Delivery, mm	0.10	
33.6.0.	Motor: -		
a)	Type.	: TEFC, Squirrel cage induction	
b)		motor suitable for 415±6%V, 3ph	
c)	RPM	1450.00	
d)	HP		as per data sheet
e)	Insulation	Class- F	
f)	Enclosure	IP- 55	
35.0.0.	**Gaseous Chlorination: -**		
35.1.0.	Type.	vaccum type	
35.2.0	Quantity, (post-2)	2(1W+1SB)	
35.3.0.	Dosing rate, mg/ L	5.00	
35.6.0.	Capacity, Kg/ hr	4.50	
35.8.0.	Tonners	6.00	
36.0.0.	**Utility Buildings: -**		
36.1.0.	Chemical store including tertiary treatment, LT Panel, MC Panel Ground floor: -		
	Length, M	25	
	Width, M	15	
	Ceiling Height, M	5	
36.2.0.	Chemical feeding, laboratory, office first floor: -		
	Length, M	25	
	Width, M	15	

	Ceiling Height, M	5	
36.3.0.	Wet Sludge Pump House		
	Length, M	12	
	Width, M	6	
	Ceiling Height above Plinth level, M	4	
36.4.0.	Centrifuge Building	Double storied	
	Length, M	16	
	Width, M	8	
	Ceiling Height above Plinth level, M	4.5	
37.0.0.	Platforms: -		
	DG Sets	30M^2	
38.0.0.	Recycled water pump house	Not Required as provided pressure filters	

For Comprehensive Envirotech Engineers Pvt. Ltd.

हरियाणा राज्य औद्योगिक
एवं संरचना विकास
निगम लिमिटेड
Corporate Identity Number :
U29199HR1967SGC034545

Haryana State Industrial &
Infrastructure Development
Corporation Ltd.
Industrial Estate Kundli
Telefax : 0130-2370586

(A State Government Undertaking)

No. HSIIDC: IA:KH.: 350
Dated.....05/05/2020

UNDERTAKING

I, Arun Kumar Garg S/o Sh.Suresh Kumar do hereby solemnly affirm, declare and undertake as under :

That I am working as Asstt. General Manager (IA) of M/s Haryana State Industrial & Infrastructure Development Corporation (HSIIDC) Limited, having its Registered office at C-13-14, Sector-6, Panchkula and empowered and competent to swear this undertaking.

1. The Industrial Model Township at Kharkhoda, District Sonipat, Haryana will be developed by M/s Haryana State Industrial & Infrastructure Development Corporation (HSIIDC) Limited.
2. The land compensation has already been paid / released to all ex-land owners as per the award announced in line with the provision of the Land Acquisition Act, 1894 of Govt. of India.
3. The other benefits i.e. payment of annuity, allotment of 'oustee-categary' residential plots, allotment of Commercial / Industrial sites etc. are being / will be given to the eligible ex-land owners as per Policy for Rehabilitation and Resettlement of Land owners, notified by the Govt. of Haryana vide notification date 09.11.2010.

For M/s HSIIDC Limited

AGarg
(Arun Kumar Garg)
Asstt. General Manager(IA)
HSIIDC, IMT, Kharkhoda