



**M/s. JK Paints and Coatings
Limited**

**Prefeasibility Report for Paint Manufacturing Unit in
Plot No.A-1/1, Kosi Katwan Extension-2, UPSIDA
Industrial Area, Tehsil Chata, District Mathura, Uttar
Pradesh**

June 2022



Kadam

Environmental Consultants

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M/S. JK PAINTS AND COATINGS LIMITED**Prefeasibility Report for Paint Manufacturing Unit in Plot No.A-1/1, Kosi Katwan Extension-2, UPSIDA Industrial Area, Tehsil Chata, District Mathura, Uttar Pradesh**

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QUALITY CONTROL							
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1 EXECUTIVE SUMMARY

1.1 Introduction

JK Paints and Coatings Limited (JK Paints), which is a wholly owned subsidiary of JK Cement Ltd., proposes to set up a greenfield Water based Paint manufacturing in the State of Uttar Pradesh. It is proposed to set up an unit of 1,20,000 KL per annum production capacity. The first phase would be 60,000 KL per annum and further expansion of 60,000 kl would be set up in future. The project will provide direct Employment to 400 persons and ~800 employed indirectly during Phase – 1 & Phase-2 operation, including support functions of Sales, Marketing etc.

1.1.1 Project Proponent

Name – Mr. Nitish Chopra

Designation – Head – Paints Business

Mobile - 011-49220000

Email address – nitish.chopra@jkcement.com

Address - Padam Tower, 19 DDA Community Center, Okhla Phase 1, New Delhi

1.2 Brief Description

M/s. JK Paints and Coatings Limited is proposing the paint manufacturing facility located at Plot No.A-1/1, Kosi Katwan Extension-2, UPSIDA Industrial Area, Tehsil Chata, District Mathura, Uttar Pradesh.

1.3 Plant Features and Production Capacity

The proposed project is Greenfield of M/s. JK Paints and Coatings Limited is proposing the Paint Manufacturing Unit in Plot No.A-1/1, Kosi Katwan Extension-2, UPSIDA Industrial Area, Tehsil Chata, District Mathura, Uttar Pradesh..

JK Paints and Coatings Limited is planning to propose manufacturing of water based paints.

Table 1-1: Production Details

S. No.	Name of Products	Production capacity KLPA
1	Water Based Paints	120,000

The major raw materials required for manufacture of Paint include the following:

- Extender and powder Raw Material
- Pigments
- Additives
- Filter water
- DM/RO water

The project shall provide all necessary aspects in design, to support safe and environment friendly handling of all hazardous chemicals.

1.4 Environment

1.4.1 Water

The total water requirement for proposed project will be 398 KLD in which fresh water consumption is 347 KLD, 30 KLD water will be recycled from ETP.

1.4.2 Effluent Generation, Treatment and Disposal

Total waste water generation will be 53 KLD in which 32 KLD will be treated in ETP and 21 KLD in the STP.

1.4.3 Power

Maximum power requirement for proposed project will be 6 MW which will be supplied by nearest substation. Roof top Solar power panels would be installed for renewable Energy generation and consumption

1.4.4 Air Emission

Adequate stack height will be provided to stacks of D.G Sets. HSD will be used as fuel.

1.4.5 Hazardous Waste Generation and Disposal

Hazardous solid wastes like ETP Sludge, residue, cotton waste, filter residue, MEE salt, will be collected in bags/barrels and will be sent to TSDF/authorized recycler/co-processor. Used/spent oil, and discarded Container/drum will be stored at designated area in the plant and will be sold to authorized recycler.

1.4.6 Solid Waste Generation and Disposal

Solid wastes like wooden, MS scrap; plastic & Gunny bags, paper bags and miscellaneous garbage will be collected in scrap yard and will be sold to authorized recyclers.

1.5 Cost of the Project

Total estimated cost for proposed project is INR 571 Crore including land cost.

1.6 Submission

In the light of the above, we would like to state that the Paint manufacturing facility in at Plot No.A-1/1, Kosi Katwan Extension-2, UPSIDA Industrial Area, Tehsil Chata, District Mathura, Uttar Pradesh for production of water based paints would have in place systems, procedures and hardware to ensure that all guidelines for protecting the environmental emission norms are followed and its operation has no adverse impact on environment.

2 INTRODUCTION

2.1 Identification of Project and Project Proponent

JK Paints and Coatings Limited (JK Paints), which is a wholly owned subsidiary of JK Cement Ltd., proposes to set up a greenfield Water based Paint manufacturing in the State of Uttar Pradesh. It is proposed to set up a unit of 1,20,000 KL per annum production capacity. The first phase would be 60,000 KL per annum and further expansion of 60,000 KL would be set up in future. The project will provide direct Employment to 400 persons and ~800 employed indirectly during Phase – 1 & Phase-2 operation, including support functions of Sales, Marketing etc.

Name – Mr. Nitish Chopra

Designation – Head – Paints Business

Mobile - 011-49220000

Email address – nitish.chopra@jkcement.com

Address - Padam Tower, 19 DDA Community Center, Okhla Phase 1, New Delhi

2.1.1 Identification of Proposed Project

The proposed project is Greenfield of M/s. JK Paints and Coatings Limited is proposing the Paint Manufacturing Unit in Plot No. A-1/1, Kosi Katwan Extension-2, UPSIDA Industrial Area, Tehsil Chata, District Mathura, Uttar Pradesh..

JK Paints and Coatings Limited is planning to propose manufacturing of water based paints.

The project is termed under Schedule 5(h) - Integrated paint industry under Category 'A', as per the EIA notification dated September 14, 2006 and its amendments.

The estimated cost of project is INR 571 Crore. The Total Production capacity is given in **Table 2-1**

Table 2-1: Production Details

S. No.	Name of Products	Production capacity KLPA
1	Water Based Paints	120,000

2.2 Brief Description of nature of the Project

JK Paints and Coatings Limited (JK Paints), which is a wholly owned subsidiary of JK Cement Ltd., proposes to set up a greenfield Water based Paint manufacturing in the State of Uttar Pradesh. The input raw materials for the proposed unit are envisaged to be purchased after entering into long term contracts with the respective sources.

2.3 Need for the project and its importance to region

The demand for Water based paints and high growth potential makes the project feasible. The domestic market demand is continuously growing. Hence a modern automated plant with best of the class technology is proposed to be implemented. The emulsion will be bought out from various suppliers and the Water Based Paint would be manufactured and packed in various pack sizes of 1lt, 4lt, 10lt and 20lt pack sizes and stored in Finished Goods area.

2.4 Demand Supply Gap

The Indian paints industry is expected to grow steadily in the short and medium term on the back of strong growth in the Indian economy. The market for decorative paints and coatings is expected to grow at a CAGR of 10% (FY 23-FY24) and be INR 150K Cr by FY34.

India's young population represents a huge opportunity with a rapidly increasing middle class and overall population. By 2030, Indian middle class is expected to have the second largest share in global consumption at 17% which could drive demand for the paint industry.

For the past few years, demand in smaller cities and towns has been growing at a faster pace than metro and tier I cities. Going forward, a rise in disposable income, incremental consumption expenditure, and development of the rural markets will fuel the paint industry's growth in these areas.

No. of paintable houses in India is expected to grow at CAGR of 2+% (FY20-FY40) and become 400M by FY40. Growing demand from the construction industry, coupled with rising infrastructure activities, will also drive the demand for the paints industry.

Source: <https://www.equitymaster.com/research-it/sector-info/paint>

2.4.1 Global Market

Not applicable

2.4.2 Domestic Market

Growing demand from the construction industry, coupled with rising infrastructure activities, will also drive the demand for the paints industry.

Decorative paints segment is expected to witness higher growth on the back of affordable housing measures by the Government. The Government's focus on infrastructure development would also help support the industrial coatings demand

2.5 Import vs. Indigenous Production

The domestic paint industry is estimated to be a Rs 500 billion industry by FY34 with the decorative paint category constituting almost 75% of the market. The decorative paint market includes multiple categories depending on the nature of the surface like exterior wall paints, interior wall paints, wood finishes, enamels as well as ancillary products like primers, putties, etc.

A rise in disposable income of the average middle class, urbanization, growing rural market, shortening of repainting cycle, and increase in sale of premium-end products are the major drivers that are pushing the growth of the organized paint industry.

Source: <https://www.equitymaster.com/research-it/sector-info/paint>.

2.6 Export Possibility

Decorative paints manufactured in this facility will be used within the country and it is not export oriented

2.7 Employment Generation (Direct and Indirect) due to the project.

800 nos. of employment will be generated during construction phase and approx. 400 nos. of employment will be generated during full fledged operational capacity.

3 PROJECT DESCRIPTION

3.1 Type of Project including interlinked and interdependent projects, if any

The project is green field project of Paint Manufacturing Unit in Plot No.A-1/1, Kosi Katwan Extension-2, UPSIDA Industrial Area, Tehsil Chata, District Mathura, Uttar Pradesh. The project is termed under Schedule 5(h) - Integrated paint industry under Category 'A', as per the EIA notification dated September 14, 2006 and its amendments.

The total plot area of the project is 97,126 sqm and 33% of greenbelt area is allotted for the proposed project. The proposed project is for water based paints. There is no interlinked and inter dependent project.

3.2 Location (map showing general location, specific location and project boundary & project lay out) with coordinates

The project is located at Plot No. in Plot No.A-1/1, Kosi Katwan Extension-2, UPSIDA Industrial Area, Tehsil Chata, District Mathura, Uttar Pradesh. The entire project area is about 97,126 sqm

The project site layout is shown in **Figure 3-4**.

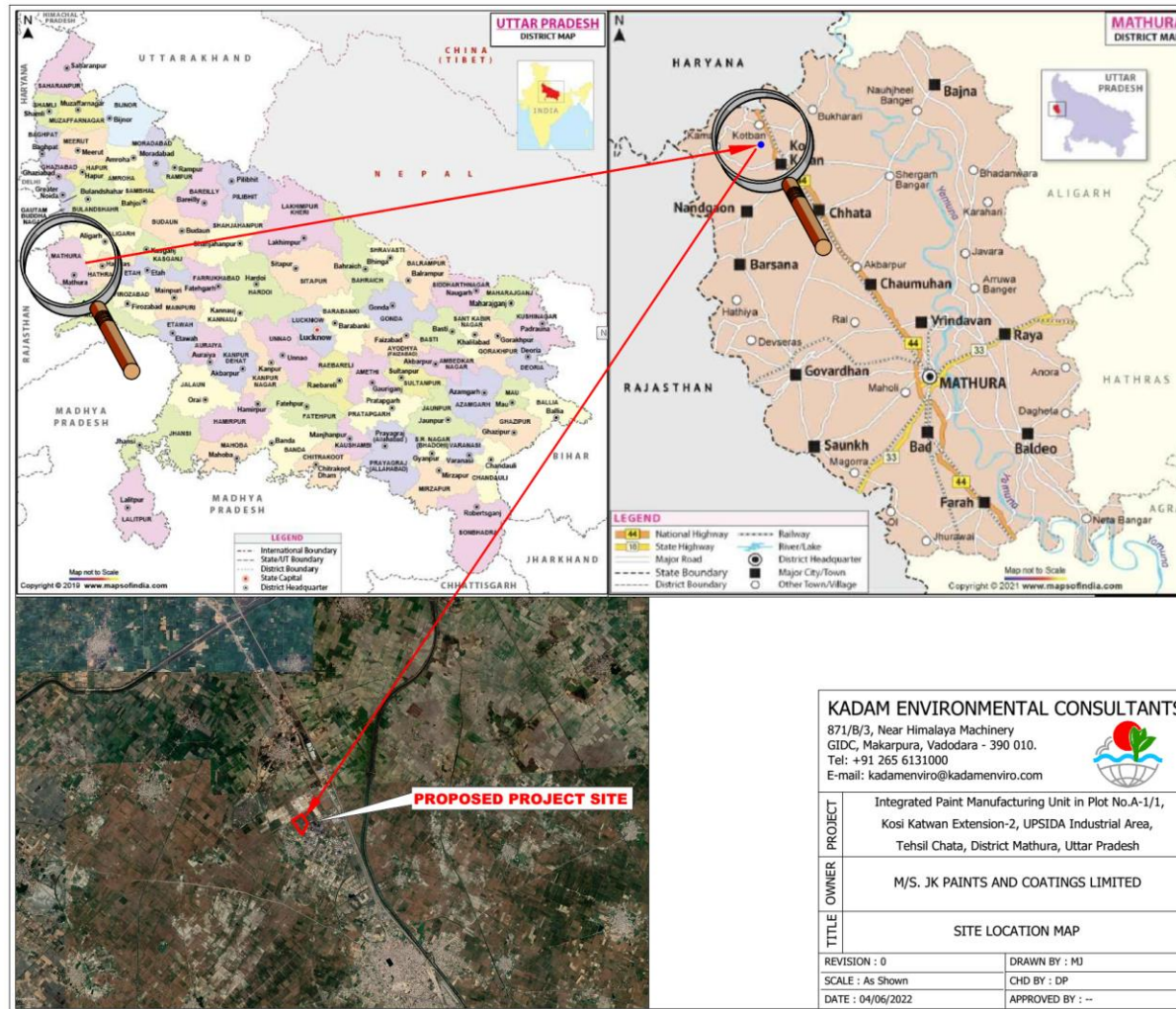
Figure 3-1: Site Location Map

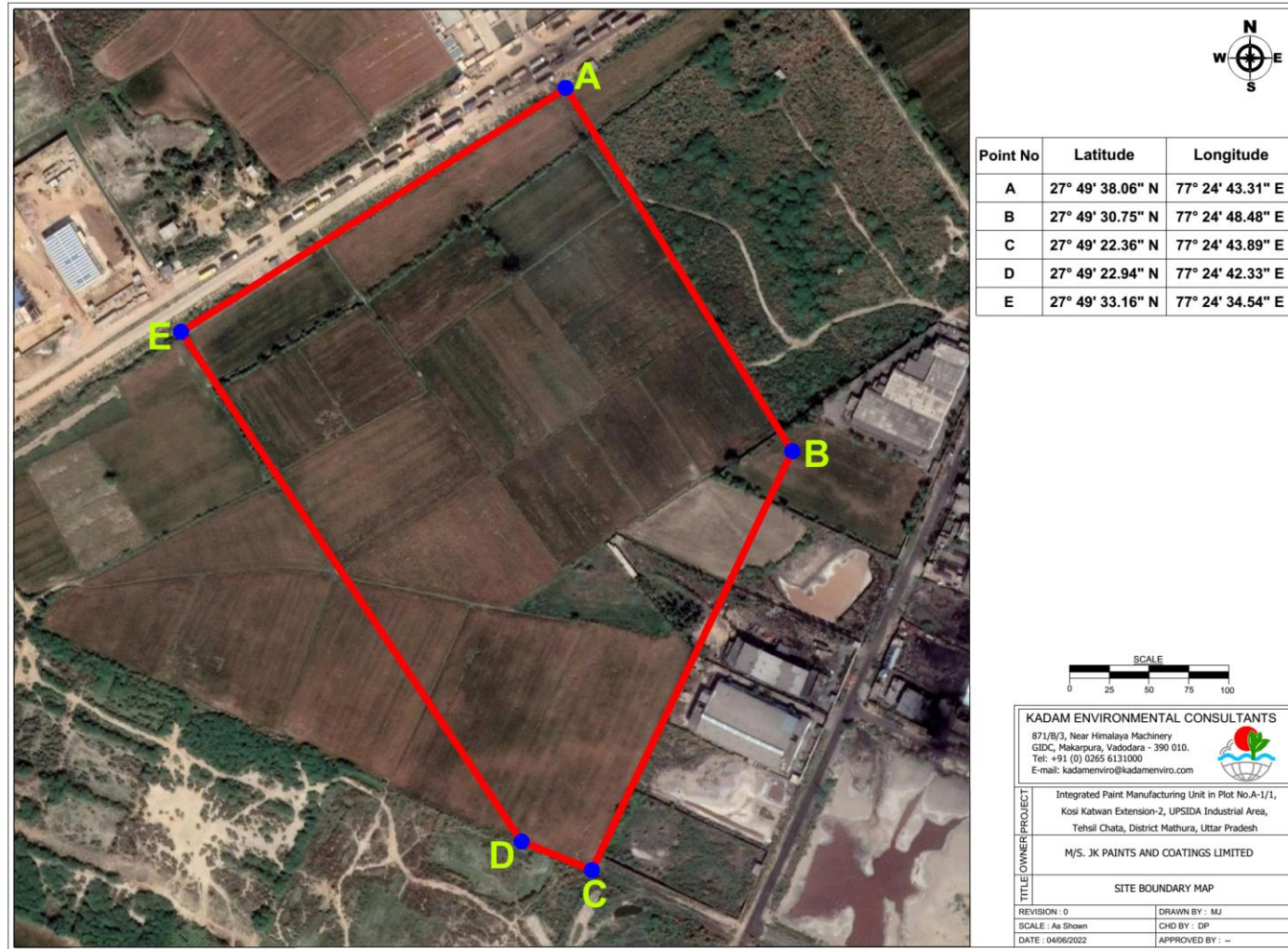
Figure 3-2: Project Site Boundary with Coordinates

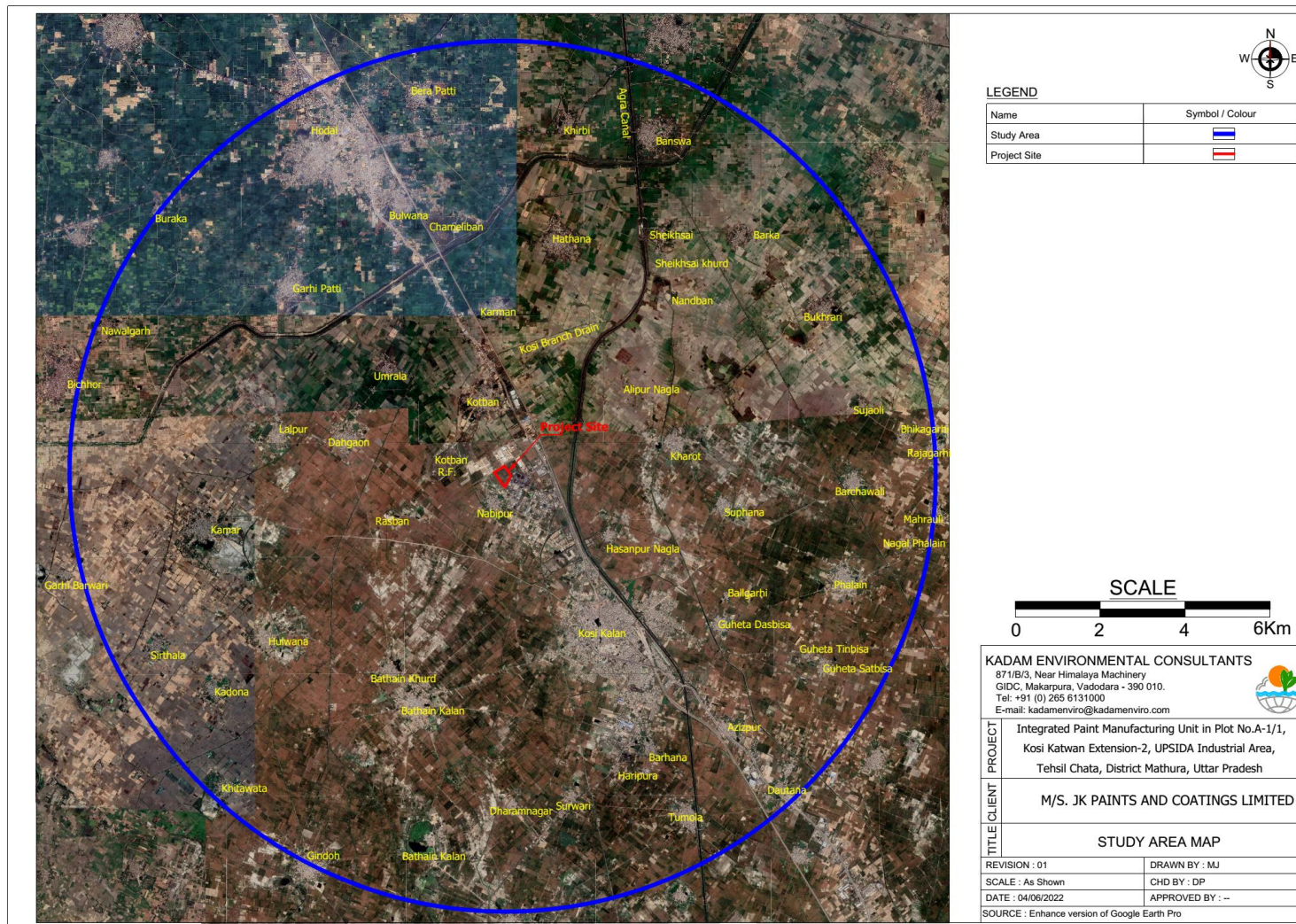
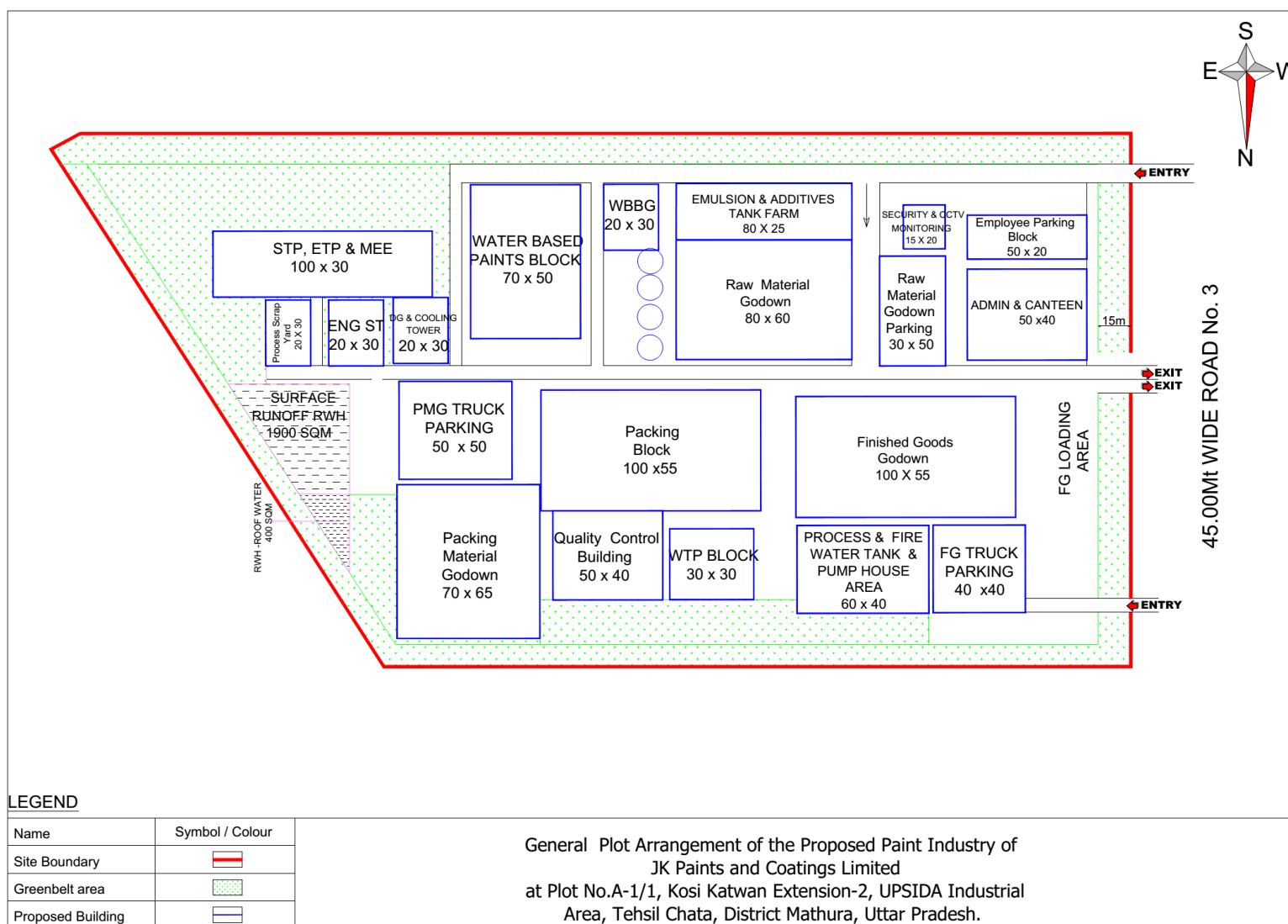
Figure 3-3: Satellite Image of 10 km Study area of the Project Site

Figure 3-4: Site Layout Map

Details of alternate sites considered and the basis of selecting the proposed site, particularly the environmental considerations gone into should be highlighted

Sr.No	Environmental Attributes	Dibiyapur, Auriya District Uttar Pradesh	Akbarpur District Kanapur	UPSIDA, Mathura
1	Vicinity to Human Settlement	Human Settlement with in 30 to 40 Km	Human settlement within 1 Km	Human Settlement within 1-2 Km
2	Land availability	Land was available but Non developed industrial area	Private Land	Well-developed Industrial area and land was readily available
3	Land use classification	Industrial Land	Privately owned Land	Industrial Land
4	Eco sensitive areas	NO	NO	NO
5	Air Quality	AAQ is well within the prescribed level	AAQ is well within the prescribed level	AAQ is well within the prescribed level
6	Water Source	Canal Water/Ground water	Ground water	Safe zone Ground water
7	Noise	Within the limits	Within the limits	Within the limits
8	RR Plan	No	NO	NO
12	Remarks	Well Developed infrastructure was not available in the nearby areas	Private land	# Availability of land for ancillary units in nearby areas. Well connected, Infra is established. #RM availability for paint unit from nearby refinery complex. # Ease of availability for packing material supplier

3.3 Size or Magnitude of Operation

Product details and production capacities are given in **Table 3-1**.

Table 3-1: Production details

S. No.	Name of Products	Production capacity KLPA
1	Water Based Paints	1,20,000

3.4 Technology and Process Description

3.4.1 Details of Manufacturing Process

M/s JK Paints and Coatings Limited proposes to manufacture water based paints.

Representative Manufacturing Process of water based paints

The actual manufacturing process consists of the following four stages: -

- Pre-dispersion
- Dispersion

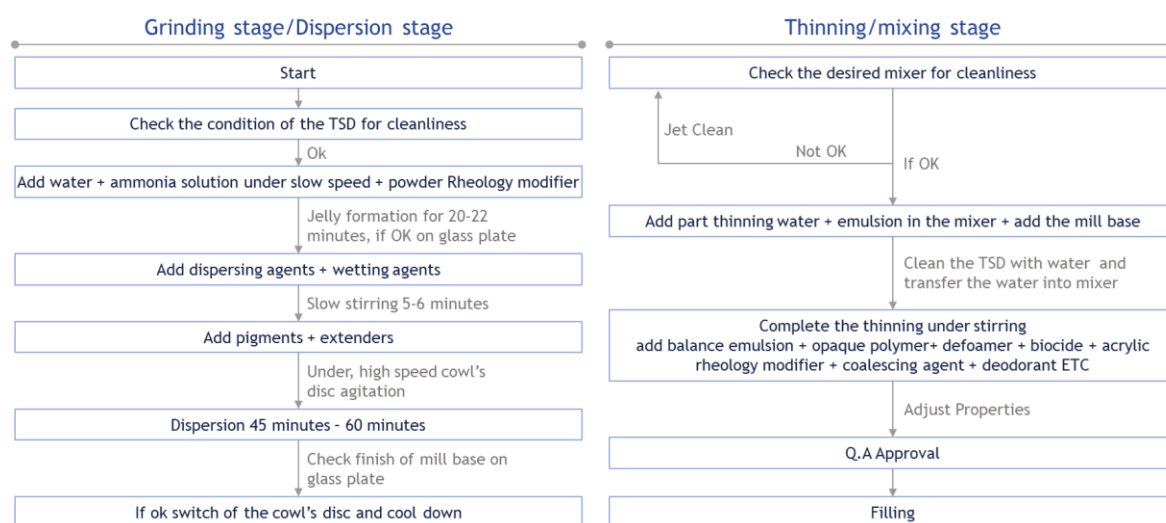
- Mixing & Tinting
- Packing

Numerous variations exist in each of these four stages depending upon the particular product and the volume of product. The basic stages involved are further elaborated as follows:

- Pre dispersion: This stage involves wetting the pigments with sufficient quantity of appropriate binder, breaking large agglomerates to make a mill base which has a required consistency for grinding.
- Dispersion: The raw material is further reduced to smaller particles of uniform size, which are dispersed uniformly in the medium. The type of paint and the final particle size required, determine the equipment to be used and the time required for dispersion. An appropriately sized disperser is used for this purpose.
- Mixing & Tinting: Dispersed mill base is then thinned with water and medium and shade adjustment is done using tinters. Small quantities of driers and additives are added. By this, the paint is thinned down to the required consistency and tinted to the exact shade required. Quality checks are carried out for consistency, viscosity, colour, drying time and other specified properties before batch is approved for packing.

Packing: The paint goes through this final stage wherein it is filtered and packed in desired pack sizes. Normal pack sizes vary from 1 lt. to 20 lt. Exceptional pack sizes include 200 lt drum. In very rare cases, it may be directly transported to the consumer in tanks with stirring facility.

Figure 3-5: Representative Manufacturing Process of water Based Paints



3.5 Raw material required along with estimated quantity, likely source, marketing area of final products, mode of transport of raw material and finished product.

The major raw materials required for manufacture of Paints and its intermediate include the following:

- Extender and Pigments
- Additives
- Emulsion
- Pigment
- Water

The project shall provide all necessary aspects in design, to support safe and environment friendly handling of all hazardous chemicals.

3.5.1 Raw Material Consumption, Storage and Transportation Details

Table 3-2: Raw Material consumption, Storage and Transportation Details

S.No	Raw materials	Proposed Quantity	Storage mode	Specific hazard	Sourcing	Mode of Transport
		TPA /kLPA				
1	Pigments such as Rutile (TiO ₂) various grades, middle chrome , etc.	12142	Silos/Bags	No specific hazard	Indian Domestic Market/ Import	Truck (By Road) / Ship
2	Extenders such as China clay, Calcium carbonate, Silica, Marble powder, Dolomite, etc.	121346	Silos/Bags	Low dust hazard	Indian Domestic Market/ Import	Truck / Bulk Containers
3	Additives	8705	Bags/IBC/Carbuoys/Barrels	No specific hazard	Indian Domestic Market/ Import	Truck
4	Emulsion	30300	Tanks/IBC/Barrels	No specific hazard	Indian Domestic Market/ Import	Truck/Bulk Containers

Note: These are tentative details. It will be finalized during detailed designing.

3.6 Resource Optimization/recycling and reuse envisaged in the project, if any, should be briefly outlined

The following hierarchy is followed for waste management with an aim of "Zero Waste".

1. Resource Conservation
2. Elimination of Waste Streams
3. Minimizing Waste
4. Reuse of Wastes
5. Recycle of Wastes
6. Treatment and Disposal for making wastes harmless

Wash water generated from cleaning of equipment will be re-used back into the process/product.

3.7 Availability of water its source, energy/power requirement and source should be given

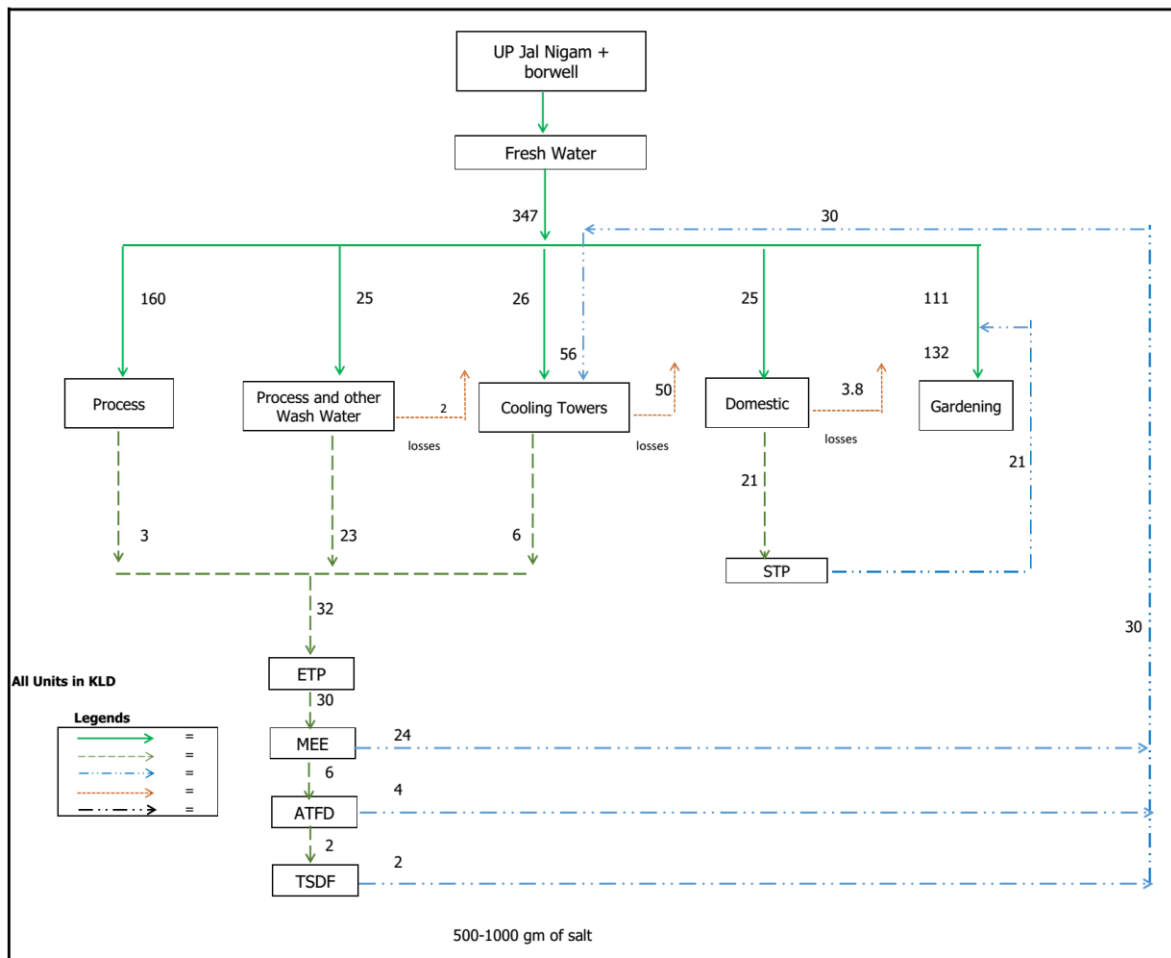
3.7.1 Water Consumption

Total fresh water requirement for proposed project is 347 KLD as per shown in **Table 3-3**.

Water source will be UP Jal Nigam and additional permission will be sought for ground water abstraction.

Table 3-3: Water Consumption and Waste Water Generation Details

No.	Description	Water Consumption			Waste water Generation
		Fresh	Recycled Water	Total	
1	Process	160	0	160	3
2	Process and other Wash Water	25	0	25	23
3	Cooling Tower	26	30	56	6
4	Domestic	25	0	25	21
5	Green belt	111	21	132	0
	Total	347	51	398	53

Figure 3-6: Water Balance Diagram

3.7.2 Fuel

The fuel consumption data is given in **Table 3-4**

Table 3-4: Fuel consumption and Stack Details

S. No.	Stack Attached to	NO's		Capacity	No. of working hrs	Type of Fuel used	Fuel consumption (LPD)	Stack No's	Stack Height	Stack Diameter
		Working	Standby							
1	Emergency Backup DG Set	2	2	500 KVA each	4	HSD	3000 (Total)	3	30	300 mm

- Note: Natural Gas will be used as a fuel in case of availability

Table 3-5: Process Vent Details

Sr. No.	Stack Attached to	Nos. of Stacks	Stack Height in m	Pollutants Emitted	Air Pollution Control Measures Attached
1	Processing and storage	80 turbo vents	3m above roof level		

3.7.3 Power Requirement and Source

Maximum power requirement for proposed project will be 6 MW which will be supplied by nearest substation. Roof top Solar power panels would be installed for renewable Energy generation and consumption

3.8 Quantity of waste to be generated (liquid and solid) and scheme for their management /disposal

Table 3-6: Hazardous Waste Generation and disposal Details

S. No.	Waste Description	Category	Sources of Generation	HW Generation	Unit	Disposal Method
1	Used / Spent Oil	5.1	Used oil such as DG Oil Discarded	3	MT/Ann um	Sent to SPCB authorized recyclers
2	Process Waste, Sludge & Residue from production Ft industrial use of paint, pigments, varnishes, inks	21.1	Waste powder Test samples of RM, and paint waste/sludge, Gelled paint / paint with excess bacterial growth/ paint lumps) Scrappings of dried paint Spilled RM, Paper / paper cups / PPEs contaminated with Raw Materials/ Finished Goods SS / Heliflex /PVC / CI /Cement/ HDPE / Rubber pipe contaminated with RM / FG	80	MT/Ann um	Sale to authorized recyclers/ TSDF/ Co- processing

S. No.	Waste Description	Category	Sources of Generation	HW Generation	Unit	Disposal Method
3	Wastes or residues such as filter aid	23.1	Discarded emulsion/ test samples; Scrappings of emulsion/ flakes of emulsion, Spilled emulsion. Used filter, Filter Bags, Waste filter cloth	0.5	MT/Annunum	Sent to TSDF/ Co-processing/ Sale to authorized recycler
4	Chemical containing residue arising from decontamination	33.1	Leftover material from RM container (Barrel / Carboy / Drum/ Tote)	NIL	MT/Annunum	Sent to TSDF/ Co-processing
5	Discarded containers / barrels contaminated with hazardous wastes / chemicals	33.1	All containers for RM, Intermediates, Consumables(MS / HDPE/) Metal & Plastic Packing Materials	BARRELS 60000 NOS PER/year	MT/Annunum	Sent to TSDF/ Co-processing/ TSDF/ Sale to authorized recycler
8	Oil and Grease & skimming residue	35.4	Floating oil from ETP/STP	0.5	MT/Annunum	Sent to TSDF/ Co-processing
9	Lead Acid Batteries	Class A	Used /Waste lead acid batteries from DG set	12	Number s/Annunum	Sale back to supplier/ PCB-Authorized recyclers
10	Spent Carbon	36.2	Used carbon granules from common scrubbers & STP/ETP	NIL	MT/Annunum	Return to supplier for regeneration/ Co- processing

Note: Authorization for hazardous waste management will be obtained from SPCB.

Table 3-7: Municipal solid Waste Generation and disposal Details

S. No	Waste type	Total (kg/day)	Method of disposal
Construction Phase			
1	Organic	360	Will be composted at site in Organic Waste Converter and used as manure for green belt development during construction stage
2	Inorganic	as and when generated	Segregated and disposed through SPCB authorized recyclers
	Total	360	
Operation Phase			
1	Organic	180	Will be composted at site in Organic Waste Converter and used as manure for green belt development
2	Inorganic	As and when generated	Segregated and disposed through SPCB authorized Recyclers
	Total	540	

4 SITE ANALYSIS

4.1 Connectivity

The proposed project is Greenfield of M/s. JK Paints and Coatings Limited is proposing the Paint Manufacturing Unit in Plot No.A-1/1, Kosi Katwan Extension-2, UPSIDA Industrial Area, Tehsil Chata, District Mathura, Uttar Pradesh.

4.1.1 By Road

The site is approachable with the nearest highway is NH-19 which is located at 0.9 Km distance in E direction. SH-44 is which connects with site at a distance of 6 k in S direction. Site location is easily approachable by state transport and other private vehicles

4.1.2 By Railway

The nearest railway station is kosi kalan which is located at 5.09 Km in SE Direction and Hodal railway station at a distance of 6.80 in NNW direction.

4.1.3 By Air

The nearest Airport is located at New Delhi (Indira Gandhi International Airport), at an aerial distance of ~86.3 Km towards NNW direction from proposed project site.

4.2 Land Form, Land Use and Land ownership

The proposed project is Greenfield of M/s. JK Paints and Coatings Limited is proposing the Paint Manufacturing Unit in Plot No.A-1/1, Kosi Katwan Extension-2, UPSIDA Industrial Area, Tehsil Chata, District Mathura, Uttar Pradesh .

The total plot area of the proposed project is 1,01,160 sqm and 33% of the total plot area will be utilized for greenbelt area.

4.3 Topography (along with map)

Topography will be studied during EIA study (same will be incorporated in EIA report).

4.4 Existing land use pattern (agriculture, non-agriculture, forest, water bodies (including area under CRZ)), shortest distances from the periphery of the project to periphery of the forests, national park, wild life sanctuary, etc sensitive areas, water bodies (distance from the HFL of the river), CRZ. In case of notified industrial area, a copy of the Gazette notification should be given.

Land use pattern: Industrial

- Site lies in an industrial area
- No Forest land is involved at the site.
- No clearance under Forest, CRZ and agriculture and Non- agriculture are required

4.5 Existing Infrastructure

The proposed project is Greenfield project and there is no existing infrastructure facility available at site.

4.6 Soil classification

Soils of the project area are classified as silty, loamy and sandy based on texture. They belong to Inceptisols and Entisols orders. The soils are having calcareous concretion and saline in nature. The fertility status of soils indicate that they are low (<0.50 % OC) in organic carbon and phosphorus (<12.5 kg/ha) and low (<135 kg/ha) to medium (135 - 335 kg/ha) in available potassium. The soils are suitable for Sugarcane, rice, wheat, cotton, rape seed/mustard, pearl millet and pigeon pea cultivation.

4.7 Climatic data from secondary sources

The general agro-climatic zone of the study area is Semi-arid.

Information presented in subsequent paragraphs is from the most recently published Long Term Climatological Tables for the nearest observatory, Mathura city by the Indian Meteorological Department (IMD) 1981-2010. These tables give useful information about a region's weather, since they are collected over a 30-year period.

A copy of the long-term climatological data is enclosed as **Annexure 2**

4.7.1 Temperature

Mean daily maximum temperature is recorded in the month of May and June 41.2°C. Highest mean temperature is recorded 45.4°C in the month of June.

Mean daily minimum temperature is recorded is 6.4 °C in the month of January and lowest mean temperature is recorded in same month is 3.2°C.

During the post-monsoon months of October to November average mean daily maximum – mean daily minimum temperatures remain between 33.3-7.7 °C. In winters, i.e. December, January and February, average mean daily maximum – mean daily minimum temperatures remain between 24.4-6.4 °C. In summers, i.e. March, April & May, average mean daily maximum – mean daily minimum temperatures remain between 41.2-13.2°C. In monsoon, i.e. June, July, August & September, average mean daily maximum – mean daily minimum temperatures remain between 41.2-25°C.

4.7.2 Wind

Long term wind direction data is prepared in **Table 4.1**.

Annual average wind direction in morning: First predominant NW , Second predominant NE/SE, third predominant SW

Annual average wind direction in evening: First predominant NW (22%), second predominant NE/SE, third predominant SW

Table 4-1: Predominant Wind Direction

Predominant Wind Direction	First Predominant Wind Direction		Second Predominant wind Direction		Third Predominant wind Direction	
Month	Morning	Evening	Morning	Evening	Morning	Evening
January	NW	NW	SW	NE	NE	SW
February	NW	NW	SE	NE	NW	SE
March	NW	NW	SE	NE	NE	SE

Predominant Wind Direction	First Predominant Wind Direction		Second Predominant wind Direction		Third Predominant wind Direction	
Month	Morning	Evening	Morning	Evening	Morning	Evening
April	NW	NW	NE	NE	SE	SW
May	NW	NW	NE	SE	SE	NE
June	NW	NW	SE	SE	SW	NE
July	NW	NW	SE	SE	SW/NE	NE
August	NW	SE	NE	SW	SW	NW
September	NW	NW	NE	SE	SE	NE
October	NW	NW	SE	SE	NE	NE
November	NW	NW	SE	SE	NE	SW
December	NW	NW	SE	NE	SW	SE

4.7.3 Rainfall

Annual total rainfall in the region is 600.1 mm. Number of rainy days are 33.9.

Distribution of rainfall by season is 510.4 mm in monsoon (June, July, August, and September), 30.9 in October to December, and 24 mm in January & February and 34.7 mm in March to May. About 85% % of the annual rainfall in the region is received during monsoon months i.e. June to September. July is the rainiest month.

Heaviest rainfall in 24 hours was 140 mm recorded on 7th August, 1994. August is having maximum number of rainy days i.e. 9.1.

4.7.4 Cloud Cover

The area remains cloudy between June - September, which is the active period of the monsoon season. Generally, cloud cover ranges from 0.5 to 2.9 Oktas during this monsoon season in morning and 0.4 to 2.7 Oktas in evening.

4.7.5 Humidity

Most humid conditions are found in the monsoons, followed by summer, post-monsoons, and winter in that order. Mornings are somewhat much humid than evenings. Humidity ranges from a high of 67 to 76% in monsoon mornings to a low of 47 to 63% in Summer Mornings. During post-monsoon season, in morning humidity remains between 75 to 77 % and in the evening it remains between 53 to 54%

4.7.6 Average Long Term Meteorological Condition

Average meteorological condition is given in **Table 4-2**.

Table 4-2: Average Meteorological Condition based on Long-term Data

Month	Mean Daily Temperature		Rainfall (mm) Monthly Total	No. of Rainy days	Relative Humidity (%), (Morning)	Relative Humidity (%), (Evening)
	Max	Min				
January	21.3	6.4	10.4	0.9	76	65
February	24.4	8.3	13.6	1.3	70	59
March	30.4	13.2	6.8	1	63	53
April	36.6	17.9	10.1	0.9	56	48
May	41.2	23.9	17.8	1.5	47	39
June	41.2	25.9	35.5	3	49	43

Month	Mean Daily Temperature		Rainfall (mm) Monthly Total	No. of Rainy days	Relative Humidity (%), (Morning)	Relative Humidity (%), (Evening)
	Max	Min				
July	36.1	25.5	164.7	9	72	67
August	34.6	25	205.2	9.1	76	72
September	34.2	23.5	105	4.9	75	71
October	33.3	18.3	18	0.9	67	63
November	29.1	11.6	3.9	0.3	65	56
December	23.3	7.7	9	1.1	72	60
Total	-	-	600	33.9		
Average	30.1	17.4	-	-	65.7	58

4.8 Social infrastructure available

Provision of additional social infrastructure such as schools, health centers, drinking water facilities, etc. are not envisaged. However, these facilities are adequately available in the Region.

5 PLANNING BRIEF

5.1 Planning Concept (type of industries, facilities, transportation etc.) Town and Country Planning/ Development authority Classification

Construction work for the plant would start subsequent to receipt of Environmental Clearance (EC) and Consent to Establish (CTE) from MoEF&CC. Tentatively, work is expected to start and likely to be commissioned within 24 months after receipt of all clearance.

5.2 Population Projection

The proposed project will create direct and indirect employment within nearby areas, depending upon the availability of skilled and unskilled manpower. During operation phase around 400 persons are expected to be employed at full capacity which includes permanent and contract workers and approximately 800 persons are expected to be employed during construction phase.

5.3 Land use Planning (breakup along with greenbelt etc.)

The Landuse planning along with area break up at site is given in table below.

Table 5-1: Area break up of proposed site

S. No.	Title	Area, m2	Area,	% of total
1	Processing Area	24,000.00	5.93	25%
2	Storage Area	13,500.00	3.34	14%
3	Water Storage	1,600.00	0.40	2%
4	Effluent Treatment Plant	3000.00	0.74	3%
5	DG Sets & Cooling tower	600.00	0.15	1%
6	Scrap yards	600.00	0.15	1%
7	Roads	5,916.00	1.47	6%
8	Administrative Building	200.00	0.05	0.2%
9	Others Building- QA Lab, Canteen, Metering room, pump house, WTP, security building etc.	7,750.00	1.91	8%
10	Greenbelt Area	32,060.00	7.92	33%
11	Rain Water Harvesting - Paved area	400.00	0.10	0.4%
12	Strom Water and roof water Reservoir additional- Paved area	1,000.00	0.25	1%
13	Parking	6,500.00	1.61	7%
	Total	97,126.00	24.01	100%

5.4 Assessment of Infrastructure Demand (Physical and Social)

Specified first-aid box with all necessary facilities will be maintained at site office. Medical facilities, primary health centers are available in the region. Communication services like post office, telephone, mobiles are available

5.5 Amenities/Facilities

5.5.1 Greenbelt Development

33% greenbelt area will be developed within plant premises. Suitable plant species of local varieties will be planted with adequate spacing and density for their fast growth and survival shall be ensured by taking due care.

5.5.2 Fire-fighting system

State of the heart firefighting system will be installed with Fire Hydrant, Hose Reel, Automatic Fire Detection, Foam & Water Sprinkler, Water cum Foam monitor etc.

5.5.3 Storm water management plan

Proper storm water drainage with Rain Water Harvesting System will be provided considering the rain fall pattern & peak discharge.

5.5.4 Rainwater harvesting system

Rainwater will be harvested in the reservoir. Maximum rooftop water will be tried to collected and stored in reservoir separately, while storm water will also store in another dedicated reservoir. Rainwater will be collected and reused / recharged.

6 PROPOSED INFRASTRUCTURE

6.1 Industrial Area (processing area)

The proposed project is Greenfield of M/s. JK Paints and Coatings Limited is proposing the Paint Manufacturing Unit in Plot No.A-1/1, Kosi Katwan Extension-2, UPSIDA Industrial Area, Tehsil Chata, District Mathura, Uttar Pradesh

6.2 Residential Area (non-processing area)

No residential facilities will be proposed.

6.3 Green belt

Adequate green belt will be developed. Exact details will be shared during the EIA presentation.

6.4 Social Infrastructure

The impacts by M/s. JK Paints and Coatings Limited. will be assessed and an appropriate plan of Corporate Social Responsibility (CSR) activity will be planned.

6.5 Connectivity (Traffic and transportation road/ rail/metro/water ways etc.)

The proposed project is Greenfield of M/s. JK Paints and Coatings Limited is proposing the Paint Manufacturing Unit in Plot No.A-1/1, Kosi Katwan Extension-2, UPSIDA Industrial Area, Tehsil Chata, District Mathura, Uttar Pradesh

6.5.1 By Road

The site is approachable with the nearest highway is NH-19 which is located at 0.9 Km distance in E direction. SH-44 is which connects with site at a distance of 6 k in S direction. Site location is easily approachable by state transport and other private vehicles

6.5.2 By Railway

The nearest railway station is kosi kalan which is located at 5.09 Km in SE Direction and Hodal railway station at a distance of 6.80 in NNW direction.

6.5.3 By Air

The nearest Airport is located at New Delhi (Indira Gandhi International Airport), at an aerial distance of ~86.3 Km towards NNW direction from proposed project site.

6.6 Drinking water management (source & supply of water)

Domestic water requirement is 25 KLD which will be fulfilled by UP Jal Nigam.

6.7 Effluent system

6.7.1 Wastewater Generation, Treatment & Disposal Facility

Wastewater mainly generated from following areas such as:

- Domestic
- Process
- Washings
- Utilities etc.

Domestic Sewage

Domestic wastewater will be treated in STP separately and treated water will be reused for greenbelt development. STP sludge will be used as manure for greenbelt development

Industrial Effluent:

Industrial effluent will be segregated at source based on pollution load and separate treatment will be given as below:

High COD Streams:

Effluent generated from plant will be treated separately by advanced oxidation treatment. The treated effluent then send to equalization tank where other low COD streams to be added for further treatment. Sludge generated from the advanced oxidation treatment will be send to filter press via sludge collection sump, dried and sent to PCB-approved vendor.

Low COD streams:

Low COD streams consists other process water, utility blow downs and washing water. The combined effluent will be treated in proposed ETP consisting primary, secondary and tertiary treatment. ETP treated water will be used for gardening and surplus water will be used for dust suppression, firefighting etc.

Sludge generated from the ETP will be sent to filter press via sludge collection sump and then dried sludge will be disposed at PCB-approved facility.

Industrial waste water shall be treated in ETP plant. The flow diagram of the same is given in **Figure 6-1**.

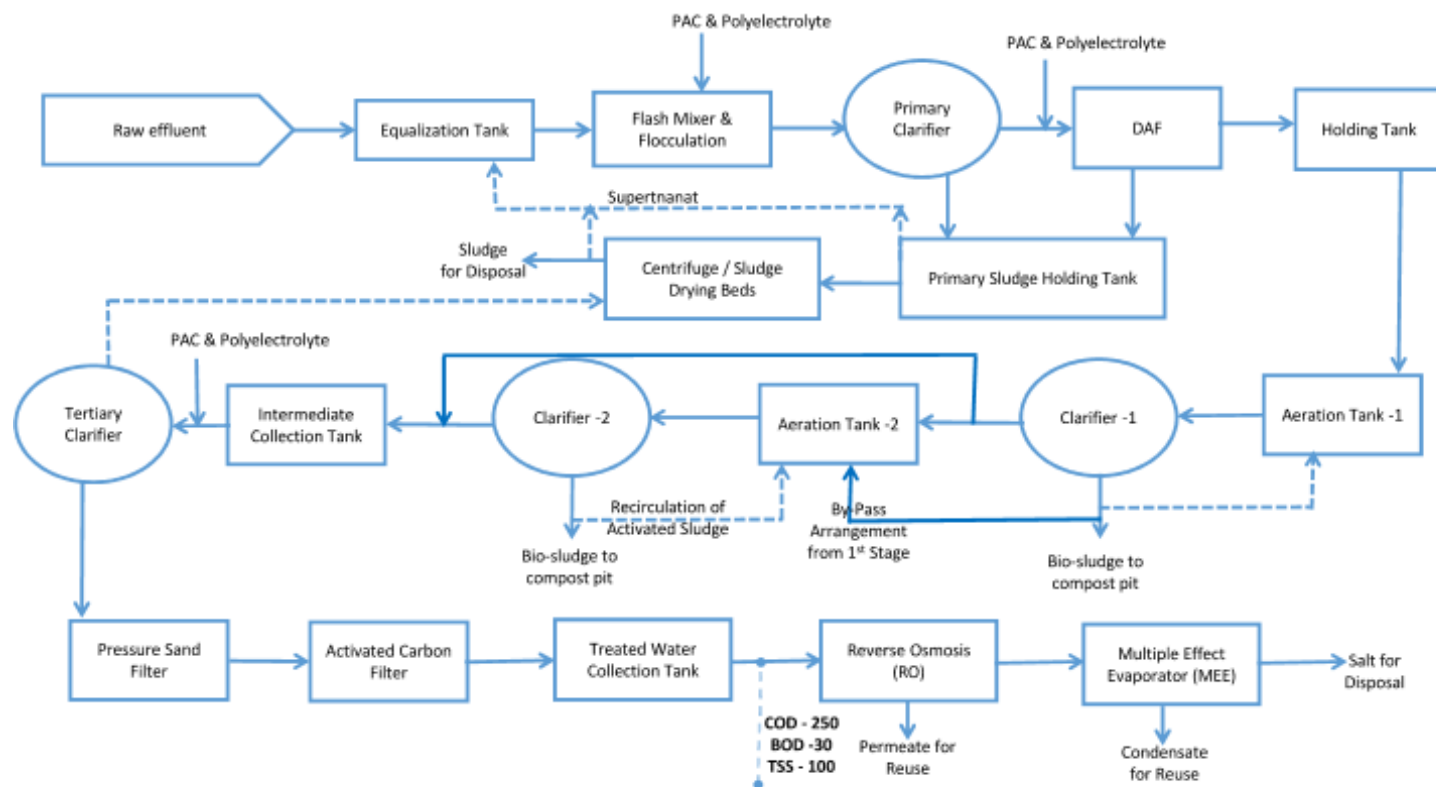
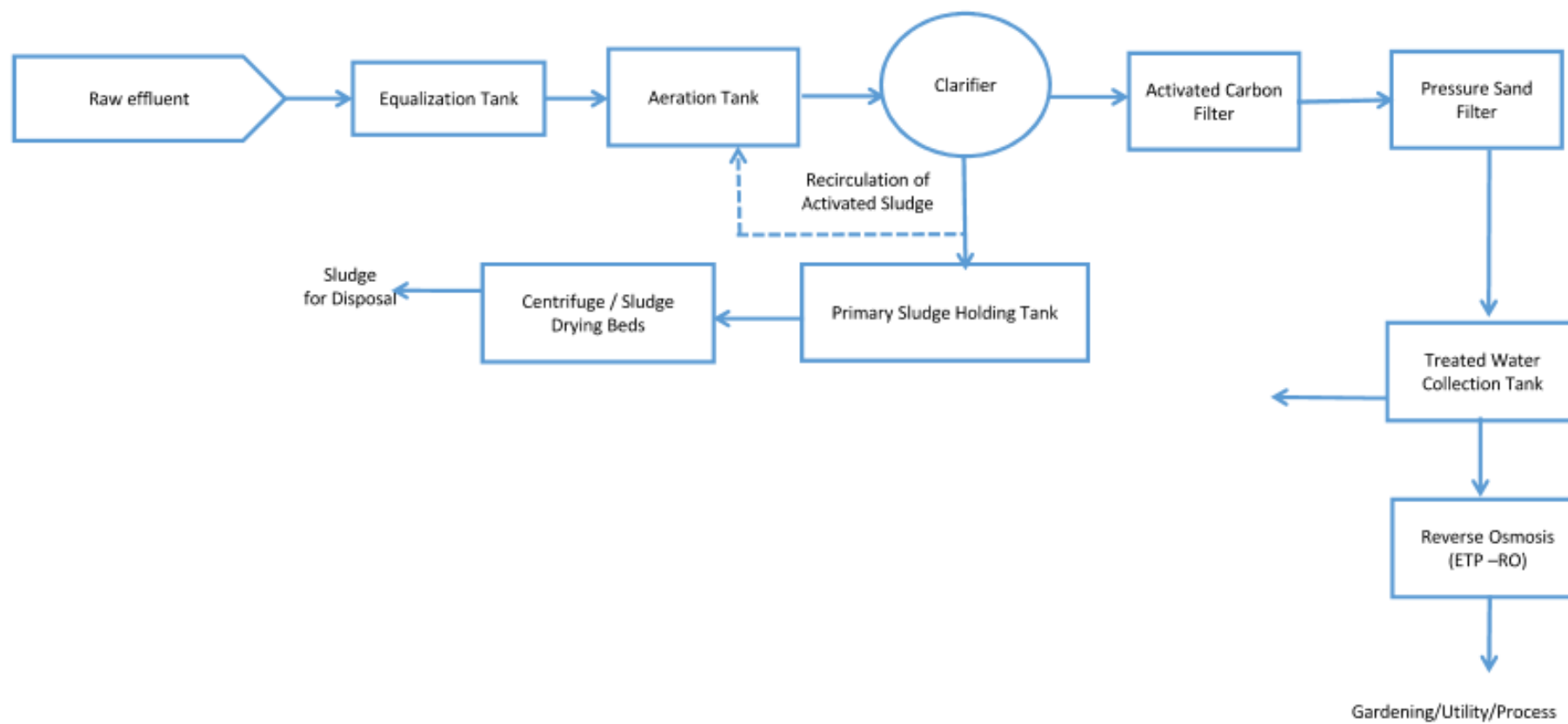
Figure 6-1: ETP Flow Diagram

Figure 6-2: Process Block of STP

6.8 Solid waste management

The solid wastes generated from the plant operations will be disposed to CHWTSDf and recycled through authorized Vendors and recyclers.

6.9 Power requirement & supply/ source

Maximum power requirement for proposed project will be 6 MW which will be supplied by nearest substation. Roof top Solar power panels would be installed for renewable Energy generation and consumption

7 REHABILITATION AND RESETTLEMENTS (R& R) PLAN

7.1 Policy to be adopted (central/state) in respect of the project affected persons including home oustees, land oustees and landless laborers (a brief outline to be given)

Proposed project is located in UPSIDA industrial area and which does not require R&R.

8 PROJECT SCHEDULE AND COST ESTIMATE

8.1 Likely date of start of construction and likely data of completion (time schedule for the project to be given)

Expansion work for the plant would start subsequent to receipt of Environmental Clearance (E.C) and Consent to Establish (CTE) from MoEFCC. Tentatively, work is expected to start and likely to be commissioned within 24 months after receipt of all the clearance from different statutory.

8.2 Estimated project cost along with analysis in terms of economic viability of the project.

Total estimated cost for proposed project is INR 571 Crore including land cost.

9 ANALYSIS OF PROPOSAL

9.1 Financial and Social Benefits with special emphasis on the benefit to the local people including tribal population, if any, in the area.

- There will be positive impact on social conditions in and around the site due to the proposed project.
- The proposed project will create direct and indirect employment within nearby areas, depending upon the availability of skilled and unskilled manpower.
- During construction phase about 800 people will be employed on contract basis for construction activities. During operation phase around 400 persons are expected to be employed at full capacity which includes permanent and contract workers.
- Community would get access to gainful employment closer to home.
- The project will help in revenue generation for State and Central Government.
- Development of ancillary businesses in the area
- Overall, the project would improve quality of life of the surrounding villages in study area.

ANNEXURE

Annexure 1: Plot Allotment letter

**U.P. State Industrial
Development Authority**



Regional Office, AGRA
EPIP, Shastripuram
Agra
Tel No. : 0562-2641924
Email ID: rmagra@upsidc.com
Website: www.onlineupsidc.com

Ref.No: SER20220523/1000/1261/51906/SIDC-IA/Kosi Kotwan Extn.-2

Date: 01/06/2022

To,

JK PAINTS AND COATINGS LIMITED
JK Cement Limited Fifth Floor Prism Tower Faridabad-Gurgaon Road
Gwal Pahari Gurugram Haryana



Subject:- Allotment of land in Industrial Area Kosi Kotwan Extn.-2

Dear Sir,

With reference to your application dated **23/05/2022** for allotment of land in Industrial Area **Kosi Kotwan Extn.-2** at regional office **AGRA**, we are pleased to allot plot no **A-1/1(Reserved for megaproject)** in the Industrial Area on the conditions mentioned below for setting up of industrial unit for manufacturing of :

1. Area of plot is 97126 sq. mtr. The precise measurement and the area of the plot is as per site layout attached herewith
2. Date of issuance of this letter will be treated as the date of allotment of the above plot in your favour.
3. The interest chargeable as per clause 5 below on the (total) balance outstanding premium will be computed from the date of allotment as defined in clause 2 above and payable half yearly on 1st day of January and 1st day of July each year. The first of such payment will be due on 01/01/2023
- a. There are construction of value 0 existing on the plot, which shall have to be paid by you along with reservation money as mentioned in clause 4 below.
4. You shall deposit an amount of Rs 38166231.5625 (Earnest Money of Rs 25009945 has been adjusted) towards reservation money in respect of the above plot latest by 01/07/2022. This amount together with Earnest money is approximately equal to 25 percent of the total premium of the plot at provisional rate of Rs 2575 per sq. mtr. and locational charges @ Rs 128.75 per sq. mtr for the first five acres, and is subject to adjustment according to actual measurement of the plot. If the payments are not made as stipulated above this allotment will stand automatically cancelled and an amount of 1 % shall be deducted from the Earnest Money deposited by you and same shall stand forfeited by this Corporation. However, if the area of land allotted either exceeds the area applied for or falls short of the area applied for by an area more than 20%, the deductions in Earnest Money shall not be done if the allotment is not accepted, provided an intimation is sent to us in this respect by date stipulated above.
Note: -The premium mentioned herein is provisional and is liable to be increased on account of increased compensation or additional infrastructure development.
5. The remaining 75% of the provisional premium shall have to be paid by you in 12 equal half yearly instalments each of which will be due for payment on 1st day of January and 1st day of July each year. The first instalment of such payment will fall due for payment on 01/01/2023. The second and subsequent instalments of premium will fall due on 1st day of January and 1st day of July each year.
An interest @ 8.5% per annum shall be charged on the outstanding (balance) premium with effect from the date of allotment and shall be payable along with instalment of premium as stipulated in clause 3 above. A rebate of 2% per annum on payment of interest shall be allowed if the instalment is deposited on or before the stipulated date and if there are no arrears of dues. The amount of the balance premium and the interest due thereon from time to time shall remain first charge on the land and the building and machinery erected thereon till it is (they are) paid in full.
6. The stamp duty, the registration charges and legal expenses involved in the execution of the Lease Deed and other

- agreements from time to time shall be borne by you.
7. You shall have to execute a Lease deed within 60 days by submitting following documents:-
 - a. Valid Udyog Adhar registration for the item of manufacturing and plot for which this allotment is made
 - b. Clear all dues upto the date of Lease Deed as mentioned in clause -3, 4 and 5 of this letter.
 - c. Detailed statement showing shareholders/ director position duly certified by CA.
 - d. Necessary stamp papers/e-stamp/ Bank Guarantee (as per Govt order)
 - e. Provisional NOC of Pollution Control Board.
 - f. Any other formalities/ papers as required.
 8. You will have to take over possession of the land within 30 days of executing the Lease deed.
 9. You shall have to get the maps approved within 90 days of taking possession. The formalities to be done in this regard are available on website onlineupsidc.com.
 10. You shall have to start construction within 30 days of approval of map.
 11. You shall have to start production on the plot within 0 months from date of allotment and intimate the corporation of the same..
 12. The plot has been allotted on as it is where it is basis and levelling etc. if any, is to be undertaken by you at your expenses. You will pay to the U.P. State Industrial Development Corporation Ltd. within 30 days from the date of the demand made by this Corporation from time to time such recurring fee in the nature of service and/or maintenance charges as determined by this Corporation. In case of default you will be liable to pay interest @8.5 % p.a. on the amount due.
 13.
 - a. You will adhere and submit to the rules of Municipal or other authority now existing or hereinafter to exist insofar as the same relate to the immovable property in the Industrial Area or so far as they affect the health, safety and convenience of the others inhabitants of the place, and will not release any obnoxious gaseous, liquid or solid effluents from the unit in any case.
 - b. You will establish at your own cost an appropriate and efficient effluent treatment system/ plant and will ensure that it is ready and functional as per the norms and specifications expected laid down or stipulated by the State Effluent Board/U.P. Pollution Control Board and any other authority established by law for the time being in force before the production is commenced in the unit set up on the plot
 - c. Whenever the industrial area is included in the jurisdiction of Municipal Corporation or Board, Cantonment Board, Zila Parishad, Town Area or (any) other local bodies (body), you will become liable to pay and discharge all rates, taxes, charges, claims and outgoing chargeable imposed and assessment of every description, which may be assessed, charged or imposed upon then by the local body and will abide by the laws rules and direction of the local body.
 - d. You will make appropriate arrangements at your own cost for proper disposal of waste water produced in your unit
 14. You will have to apply for and obtain power connection from the local agency /U.P. State Electricity Board as the case may be at your end and cost.
 15. The allotment will be cancelled if and when any one of the following mentioned violations happens and further action after cancellation shall be taken up as mentioned in clause 16 below.
 - a. If you fail to comply to any of the conditions 7-12 above within the time stipulated above, the time duration mentioned being of essence.

OR

 - b. If you fail to make payment of interest and/ or premium on or before the due date(s) as mentioned in clause 5 of this letter

OR

 - c. If you fail to comply clause 23, 24 and 26 mentioned here in below
16. In the event of cancellation of allotment on account of any default on your part, the following will stand forfeited to the
 - a. Interest @ 14 % per annum from the date of allotment on the total unpaid premium from time to time till the date of cancellation of allotment without allowing rebate in interest, mentioned in clause 5 above irrespective of the fact whether the dues had been paid in time or not.

AND

- b. Use and Occupation charges/ Lease Rent from the date of allotment upto the date of cancellation.

AND

- c. In the case of constructed sheds allotted by UPSIDC Ltd 2 % of the cost of shed towards depreciation. The Balance amount, if any, out of the deposits made by you till then, after deducting the amounts to be forfeited as above, will be refundable. In case the total of the amounts paid is less than the amounts to be forfeited you shall be liable to pay the difference and the same shall be recoverable by the Corporation from you
17. In the event of surrender of the allotment the following amounts will stand forfeited to the U.P. State Industrial Development Corporation Ltd.
- a. Interest @ 8.5 % per annum from the date of allotment upto the date of surrender of the allotment on the total balance (unpaid), premium from time to time allowing the rebate (in interest) irrespective of the fact whether the payments were made in time or not.

AND

- b. Use and Occupation charges/ Lease Rent from the date of allotment till the date of surrender.

AND

- c. 0 % Of the cost of shed towards depreciation in case of constructed sheds allotted by UPSIDC.
The Balance amount, if any, out of the deposits made by you till the date of surrender after deducting the amounts to be forfeited as above, will be refundable. In case the total of the amounts paid is less than the amount to be forfeited, you shall be liable to pay the difference and the same shall be recoverable by the corporation from you
18. You shall not employ in the unit any process generating smoke or fumes or involving use of chimney and any use of fossil fuel in the process which may cause atmospheric pollution and / or would not discharge liquid effluent which may be obnoxious by nature or cause pollution. Your unit should not involve any significant emission of particles and / or gaseous substance in the air.
19. In employing labour for the industry, skilled, semi skilled or unskilled, shall give preference to one or two able - bodied persons from the families whose land has been acquired for the purpose of the said Industrial Area.
20. You will pay use and occupation charges/ lease rent at the rate of Rs. 1/- per square meter per year during the first thirty years, Rs.2.5/- per square meter per year during the next thirty years after expiry of the first thirty years and Rs. 5/- per square meter per year during the next thirty years after expiry of the first sixty years. Use and occupation charges are payable till the date lease is granted to you whereafter lease rent will have to be paid.
21. The allottee / lessee will mention in the postal address of his correspondence letters invariably the name of UPSIDC Industrial Area.
22. All the payments to the Corporation should be either online or through Bank Draft / pay order in favour of UPSIDC Ltd. payable at AGRA No payments in cash or through cheques would be accepted.
23. You will utilise minimum 30% area of the plot by covering it by roof/ permanent shed within the above specified period failing which the allotment of the plots(s) will be cancelled.
24. It will be your sole responsibility to get No Objection Certificate from UPPCB (U.P. Pollution Control Board) and if it is not furnished to this Corporation, you will be liable for action according to law and UPSIDC would not be responsible for any of your act or omissions which may be in contravention to the U. P. Pollution Control Board rules environmental laws.
25. If the Corporation fails to hand over possession within 6 months entire deposits made by you shall be refunded alongwith simple interest @6%.
26. Any Reconstitution/ project change/ name change/ mortgage without prior approval in writing to this Corporation shall result in automatic cancellation of the allotment.
27. You shall make arrangements for rain water harvesting and all other laws framed by the Govt. to protect environment.
28. If it is found that you have misrepresented or submitted wrong information for getting this allotment, the allotment shall be void and the entire amount deposited by you shall be forfeited.
29. Additional clauses as mentioned below are also remain part of the terms of allotment and binding on you.

S.NO	List Of Additional Clauses
1	Interest rate @8.5% is valid till 30.06.2022
2	Investments as mentioned in application under different heads and proposed employment has to be ensured
3	Production start period will be given as per norms of UPSIDA
4	Installments amounts may be changed depending on interest revision
5	This allotment is for setting up of Industrial unit for manufacturing of water based paint

VINOD
KUMAR
Digitally signed by
VINOD KUMAR
Date: 2022.06.01
21:38:29 +05'30'
Your's Faithfully,
For U.P. STATE INDL. DEV. CORPN. LTD.

Vinod Kumar
(Regional Manager)

No: SER20220523/1000/1261/51906 SIDC-IA: Kosi Kotwan Extn.- Plot No.: A- Date: 01/06/2022
2 1/1(Reservedformegaproperty)
information and necessary action to:-
1.Chief Manager I.A, UPSIDC LTD, Kanpur

U.P. STATE INDUSTRIAL DEVELOPMENT AUTHORITY
CIN No - U26960UP1961SGC002834, Head Office, Kanpur
A-1/4, Lakhanpur, Kanpur-208024
Telephone No-0512-2582851-53(PBX), Fax No.-0512-2580797
Website:- www.onlineupsidc.com

Installment Schedule

Installment No.	Due Date Of Installment	Interest Due (With Rebate)	Interest Due (Without Rebate)	Premium Due	Total Amount (With Rebate)	Total Amount (Without Rebate)
1	01/01/2023	₹13,334,500.39	₹15,556,917.12	₹15,794,044.14	₹29,128,544.53	₹31,350,961.26
2	01/07/2023	₹10,338,391.85	₹12,061,457.16	₹15,794,044.14	₹26,132,435.99	₹27,855,501.30
3	01/01/2024	₹9,554,314.92	₹11,146,700.74	₹15,794,044.14	₹25,348,359.06	₹26,940,744.88
4	01/07/2024	₹8,482,178.46	₹9,895,874.87	₹15,794,044.14	₹24,276,222.60	₹25,689,919.01
5	01/01/2025	₹7,622,568.19	₹8,892,996.22	₹15,794,044.14	₹23,416,612.33	₹24,687,040.36
6	01/07/2025	₹6,578,976.63	₹7,675,472.74	₹15,794,044.14	₹22,373,020.77	₹23,469,516.88
7	01/01/2026	₹5,732,588.95	₹6,688,020.45	₹15,794,044.14	₹21,526,633.09	₹22,482,064.59
8	01/07/2026	₹4,699,269.02	₹5,482,480.53	₹15,794,044.14	₹20,493,313.16	₹21,276,524.67
9	01/01/2027	₹3,821,725.97	₹4,458,680.30	₹15,794,044.14	₹19,615,770.11	₹20,252,724.44
10	01/07/2027	₹2,819,561.41	₹3,289,488.32	₹15,794,044.14	₹18,613,605.55	₹19,083,532.46
11	01/01/2028	₹1,910,862.98	₹2,229,340.15	₹15,794,044.14	₹17,704,907.12	₹18,023,384.29
12	01/07/2028	₹942,464.27	₹1,099,541.65	₹15,794,044.14	₹16,736,508.41	₹16,893,585.79

Note : 2 % rebate on interest is applicable when all the installments are paid on or before due date

Regional Manager

Annexure 2: Long-term climatological Table, Mathura

BACK

जलवायवी सारणी

CLIMATOLOGICAL TABLE

स्टेशन : मथुरा		अक्षांश		देशांतर		समुद्री तल माध्य से ऊंचाई		मीटर		प्रक्षेपों पर आधारित																
STATION : Mathura		LAT. 27° 30'		LONG. 77° 41'		HEIGHT ABOVE M.S.L.		174 METRES		BASED ON OBSERVATIONS 1981-1995																
माह	स्टेशन का सतह दाब	वायु तापमान										आर्द्रता		मेघ की मात्रा				वर्षा								
		माध्य						चरम				आर्द्रता		मेघ की मात्रा		मासिक योग	वर्षा के दिनोंकी संख्या	वर्षसहित सबसे नम महीने का योग	वर्षसहित शुष्कतम महीने का योग	24 घंटोंकी सबसे भारी वर्षा	दिनांक और वर्ष	माध्य पवन गति				
		शुष्क बल्ब	नम बल्ब	दैनिक अधिक तम	दैनिक न्यून तम	माह में उच्चतम	माह में निम्नतम	उच्चतम	और वर्ष	दिनांक और वर्ष		सापेक्ष आर्द्रता	बाष्प दाब	समस्त मेघ	निम्न मेघ											
MONTH	STATION LEVEL PRESSURE	AIR TEMPERATURE										HUMIDITY		CLOUD AMOUNTS		RAINFALL										
		MEAN						EXTREMES								MONTHLY TOTAL	NO. OF RAINY DAYS	TOTAL IN WETTEST MONTH WITH YEAR	TOTAL IN DRIEST MONTH WITH YEAR	HEAVIEST FALL IN 24 HOURS	DATE AND YEAR	MEAN WIND SPEED				
		DRY BULB	WET BULB	DAILY MAX	DAILY MIN	HIGHEST IN THE MONTH	LOWEST IN THE MONTH	HIGHEST	DATE AND YEAR	LOWEST	DATE AND YEAR	RELATIVE HUMIDITY	VAPOUR PRESSURE	ALL CLOUDS	LOW CLOUDS											
	एच.पी.ए hPa	डि. से °C	डि. से °C	डि. से °C	डि. से °C	डि. से °C	डि. से °C	डि. से °C		डि. से °C		प्रतिशत %	एच.पी.ए hPa	आकाश के अछमाश Oktas of sky		मि.मि. mm		मि.मि. mm	मि.मि. mm	मि.मि. mm		कि.मी. प्र. घं. Kmph				
जनवरी JAN	I II	12 17.8	9.9 14.2	21.3 24.4	6.4 8.3	25.2 29.5	3.2 4.4	29.6 34.1	23 28	1 0	7 22	76 65	10.7 13.3	0.9 0.7		10.4	0.9	66.4 1979	0	39	17	1979				
फरवरी FEB	I II	15 20.5	12.1 15.7	24.4 26.3	8.3 19.7	29.5 35.2	4.4 8.8	34.1 40.1	28 31	0 5	22 8	70 59	12 14.2	1.2 0.8		13.6	1.3	56.2 1979	0	45.4	10	1986				
मार्च MAR	I II	20.3 26.3	16 19.7	30.4 32.3	13.2 23.6	35.2 41.7	8.8 13	40.1 45.1	31 28	5 7	8 7	63 53	15 17.9	0.9 0.8		6.8	1	35 1982	0	17.6	25	1982				
अप्रैल APR	I II	26.3 32.3	20 23.6	36.6 32.3	17.9 23.6	41.7 44.9	13 18.2	45.1 47.1	28 29	7 8.5	7 2	56 39	18.6 22.3	0.6 0.6		10.1	0.9	70.2 1977	0	37.2	7	1977				
मई MAY	I II	32.7 38.2	23.9 26.5	41.2 36.6	23.9 23.6	44.9 45.4	18.2 21.8	47.1 47.6	29 7	8.5 17	2 3	47 49	22.8 24.6	0.4 1.2		17.8	1.5	65.8 1987	0	36	14	1982				
जून JUN	I II	33.1 37.9	24.7 27.2	41.2 36.6	25.9 23.6	45.4 40.8	21.8 22.4	47.6 44.6	7 7	17 11.5	3 10	49 67	24.6 30.7	1.2 2.7		35.5	3	166.1 1986	0	66.8	25	1986				
जुलाई JUL	I II	29.6 32.1	25.5 26.8	36.1 32.3	25.5 23.6	40.8 38.3	22.4 22.9	44.6 43.7	7 14	11.5 17.5	10 26	72 72	29.5 30.7	2.9 2.3		164.7	9	324.9 1994	63.6 1991	99.4	8	1993				
अगस्त AUG	I II	29.1 31.1	25.8 27	34.6 30.9	25 26.5	38.3 37.1	22.9 20.6	43.7 40.6	14 1	17.5 17.6	26 27	76 71	30.7 29.2	2.5 1.6		205.2	9.1	430.8 1983	40.6 1979	140	7	1994				
सितम्बर SEP	I II	28.6 30.9	25.1 26.5	34.2 30.9	23.5 26.5	37.1 37.1	20.6 20.6	40.6 42.1	1 7	17.6 11.5	27 4	75 67	29.2 23.1	1.6 0.5		105	4.9	269.2 1977	2.2 1994	99.8	12	1977				
अक्तूबर OCT	I II	26.1 29.4	21.8 24.1	33.3 29.4	18.3 24.1	36.8 36.8	14 14	42.1 35.1	7 1	11.5 4	4 28	67 56	23.1 15.5	0.5 0.4		18	0.9	90.8 1985	0	60.2	12	1992				
नवम्बर NOV	I II	19.9 24.8	16.1 19.1	29.1 24.1	11.6 19.1	32.8 32.8	7.9 7.9	35.1 30.1	1 18	4 2	28 24	65 72	15.5 11.3	0.5 0.8		3.9	0.3	24 1992	0	24	23	1992				
दिसम्बर DEC	I II	13.7 19.6	11.1 15	23.3 19.6	7.7 15	27.5 27.5	4.5 4.5	30.1 29.6	18 15	2 15	24 1986	72 60	11.3 13.7	0.8 0.7		9	1.1	23.8 1985	0	23	12	1987				
वार्षिक योग या माध्य ANNUAL TOTAL OR MEAN	I II	23.9 28.5	19.3 22.1	32.1 22.1	17.3 11	45.7 14	3.1 11	47.6 6	7 1987	0 2	22 1986	65 58	20.1 22.5	1.1 1		600.1	33.9	1203.8 1994	400.7 1981	140 8	7 1994					
वर्षोंकी सं NUMBER OF YEARS	I II	12	12	14	11	14	11	18		18		12	12	12		15	15	20	20	20						

जलवायवी सारणी
CLIMATOLOGICAL TABLE

स्टेशन : मथुरा

STAION : Mathura

	मौसम परिघटना						पवन														मेघ										दृश्यता					
	के साथ दिनों की संख्या						पवन की गती के साथ दिनों की संख्या (कि. मी. प्र. घं.)				पवन की दिशा के दिनों की संख्या का प्रतिशत										मेघ मात्रा (सभी मेघ) सहित दिनों की संख्या - अष्टमांश					निम्न स्तरी मेघ मात्रा सहित दिनों की संख्या - अष्टमांश					दृश्यता सहित दिनों की संख्या					
माह	वर्षण 0.3 मि.मि.या अधिक	ओले	गर्जन	कुहरा	धूल भरी आंधी	चंड वात	62 या अधिक	20-61	1-19	0	उ	उपू	पू	दपू	द	दप	प	उप	शांत	0	ले-2	3-5	6-7	8	0	ले-2	3-5	6-7	8	कुहरा 8	1 कि.मी. तक	1-4 कि.मी.	4-10 कि.मी.	10-20 कि.मी.	20 कि.मी. से अधिक	
	WEATHER PHENOMENA						WIND														CLOUD										VISIBILITY					
	No. OF DAYS WITH						No. OF DAYS WITH WIND SPEED (Km. p. h.)				PERCENTAGE No. OF DAYS WIND FROM										No. OF DAYS WITH CLOUD AMOUNT (ALL CLOUDS) O K T A S					No. OF DAYS WITH LOW CLOUD AMOUNT O K T A S					No. OF DAYS WITH VISIBILITY					
MONTH	PPT 0.3 mm Or more	HAIL	THUN DER	FOG	DUST STORM	SQU ALL	62 Or more	20-61	1-19	0	N	NE	E	SE	S	SW	W	NW	CALM	0	T-2	3-5	6-7	8	0	T-2	3-5	6-7	8	FOG 8	UP TO 1 Km.	1-4 Kms.	4-10 Kms.	10-20 Kms.	OVER 20 Kms.	
जनवरी I JAN II	1.9	0.1	0.2	1.4	0	0	0	0	28	3	3	14	2	12	2	15	6	35	11	22	4	4	0	1							0.2	0.8	19.2	10.8	0	
							0	0	26	5	4	19	2	11	1	12	5	28	18	22	5	3	1	0							0	0.7	18.4	11.9	0	
फरवरी I FEB II	1.9	0	0.3	0.7	0.2	0	0	0	25	3	1	14	3	15	2	10	9	35	11	17	5	5	1	0							0.5	1.3	16.7	9.5	0	
							0	0	25	3	4	18	2	13	1	9	8	34	11	18	7	3	0	0							0	0.5	17.1	10.4	0	
मार्च I MAR II	1.4	0	0.5	0.1	0.1	0	0	1	26	4	1	13	2	16	2	6	8	40	12	20	7	4	0	0							0	0.1	20.8	10.1	0	
							0	0	28	3	3	19	2	11	0	11	7	36	11	20	8	3	0	0							0	0.3	20.6	10.2	0	
अप्रैल I APR II	1.7	0.1	0.6	0.2	0.4	0	0	0	26	4	2	16	1	15	1	11	8	33	13	21	6	2	1	0							0	0.2	20.1	9.8	0	
							0	0	27	3	1	15	0	15	1	12	9	37	10	22	6	2	0	0							0.1	0.1	20.3	9.5	0	
मई I MAY II	2.6	0.1	1.4	0.2	0.4	0	0	0	28	3	1	18	5	14	2	11	6	32	11	24	4	2	1	0							0	0.1	22.3	8.7	0	
							0	0	28	3	2	17	3	20	0	10	8	32	8	23	5	2	1	0							0	0.1	22.2	8.8	0	
जून I JUN II	4.5	0	1.1	0.5	0.4	0	0	0	28	2	0	15	6	17	1	16	6	32	7	18	5	5	1	1							0	0.4	19.8	9.8	0	
							0	0	29	1	1	20	4	24	1	14	5	27	4	17	8	4	1	0							0	1.2	19.3	9.6	0	
जुलाई I JUL II	11.7	0	0.3	0.1	0.2	0	0	0	28	3	2	14	9	16	3	14	9	24	9	7	9	9	4	2							0	1.9	18	11.1	0	
							0	0	27	4	1	16	6	21	3	10	6	23	14	6	11	10	3	1							0	1.8	18.3	10.9	0	
अगस्त I AUG II	11.7	0	0.6	0	0	0	0	0	25	6	1	16	7	15	1	15	6	20	19	7	12	8	3	1							0.1	1.3	20	9.6	0	
							0	0	24	7	0	14	5	22	0	17	4	16	22	7	12	8	3	1							0	1.8	18.9	10.3	0	
सितम्बर I SEP II	6.8	0	0.2	0	0	0	0	0	23	7	1	20	2	14	1	12	5	22	23	15	8	5	1	1							0	1.4	18	10.6	0	
							0	0	24	6	2	17	2	20	0	11	4	22	22	14	9	5	1	1							0	1.2	18.9	9.9	0	
अक्तूबर I OCT II	1.2	0	0.3	0.2	0	0	0	0	22	9	1	12	1	16	2	10	1	27	30	26	3	1	0	1							0.1	0.7	19.2	11	0	
							0	0	22	9	2	15	1	16	1	7	1	26	31	25	4	1	1	0							0	0.6	19.5	10.8	0	
नवम्बर I NOV II	0.5	0	0	0	0	0	0	0	22	8	1	12	0	14	3	12	2	26	30	25	2	2	1	0							0	0	19.9	10.1	0	
							0	0	21	9	2	18	1	18	0	7	3	20	31	26	2	2	0	0							0	0	19.9	10.1	0	
दिसम्बर I DEC II	1.3	0	0.2	0.4	0	0	0	0	24	7	0	11	2	14	2	13	4	30	24	24	4	2	1	0							0	1.8	18.5	10.7	0	
							0	0	24	7	2	19	2	14	1	12	2	24	24	24	4	2	1	0							0	1	19.2	10.8	0	
वार्षिक योग या माध्य ANNUAL TOTAL OR MEAN	47.2	0.4	5.8	3.7	1.6	0	0	1	304	60	1	15	3	15	2	12	6	29	17	229	66	49	13	8							0.8	9.9	232.4	121.8	0	
							0	1	303	61	2	17	3	17	1	11	5	27	17	227	80	44	11	3							0.1	9.2	232.6	123.1	0	
वर्षोंकी सं NUMBER OF YEARS	14						12				12										12										12					



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