Form-1& 1A: Vishwagreen Realtors Pvt. Ltd. Proposed Project Plan S at Plot No. D- 108/1, T.T.C. Industrial Area, Nerul, Navi Mumbai.	December 2016
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APENDIX I

(See Paragraph-6)

<u>FORM-1</u>

(I) Basic Information

Sr. No.	Item	Details			
1	Name of the Project	Vishwagreen Realtors Pvt. Ltd. Proposed			
		Commercial development at Plot No. D-108/1,			
		T.T.C. Industrial area, Nerul, Navi Mumbai,			
		District – Thane, Maharashtra.			
2	S. No. in the Schedule	The project falls under category A of project			
		activity number 8(a) as per MOEF EIA			
		notification dated 14th September, 2006.			
3	Proposed capacity/area	The subject project will be developed in the,			
	/length/tonnage to be	• Total Plot area: 3300.00 Sq. M.			
	handled/command area/lease area/	• Deduction: Nil			
	number of wells to be drilled	• Net plot area: 3300.00 Sq. M.			
4	New/Expansion/Modernization	This is a new project.			
5	Existing Capacity/Area etc.	Total Plot area: 3300.00 Sq. M.			
		FSI area: 9798.852 Sq. M.			
		Non FSI area: 17876.305 Sq. M.			
		Total BUA: 27675.157 Sq. M.			
6	Category of Project i.e. 'A' or 'B'	'A'			
7	Does it attract the general condition?	No			
	If Yes, Please specify				
8	Does it attract the specific condition?	No			
	It yes, Please specify				
9	Location	The Project site is located at Plot No. D-108/1,			
		T.T.C. Industrial area, Nerul, Navi Mumbai,			
		District – Thane, Maharashtra.			
	Plot/Survey/ Khasra No.	Plot No. D-108/1			
	Village	T.T.C. Industrial area, Nerul, Navi Mumbai			
	Taluka	Thane			
	District	Thane			
	State	Maharashtra			
10	Nearest railway station/airport along	Juinagar Railway Station: 2.1 Km.			
	with distance in kms.	Mumbai Airport: 26.7 Km.			
11	Nearest Town, City, District	The nearest town from the project site is Nerul.			
	Headquarters along with distance in				
	kms.				
12	Village Panchayats, Zilla Parishad,	The project site comes under MIDC.			
	Municipal Corporation, Local body				
	(complete postal addresses with				
	telephone nos. to be given)				
13	Name of the applicant	M/s. Vishwagreen Realtors Pvt. Ltd.			
14	Registered Address	M/s. Vishwagreen Realtors Pvt. Ltd.			



		321, B wing, Arenja corner, Plot No. 71, Vashi, Navi Mumbai- 400705, India.
15	Address for correspondence:	M/s. Vishwagreen Realtors
	Name	Mr. Siddharth Khanna
	Designation(Owner/Partner/CEO)	Owner
	Address	321, B wing, Arenja corner, Plot No. 71, Vashi,
		Navi Mumbai, Maharashtra.
	Pin Code	400705
	Authorized Representative	Mr. K Srinivasan
	E-mail	srinivasan@kesariprojects.com
	Telephone No.	22- 27813317
	Fax No.	NA
16	Details of Alternative Sites	No
	examined, If any. Location of these	
	sites should be shown on a top of	
	sheet	
17	Interlinked Projects	NA
18	Whether separate application of	NA
	interlinked project has been	
	submitted?	
19	If yes, date of submission	NA
20	If no, reason	NA
21	Whether the proposal involves	No
	approval/clearance under: if yes,	
	details of the same and their status to	
	be given.	
	(a) The Forest (Conservation)	
	Act, 1980? (b) The Wildlife (Protection)	
	(b) The whome (Frotection) $A_{\rm ot}$ (10722)	
	Act, 1972 : (c) The C B Z Notification	
	(c) The C.K.Z. Notification, 1991?	
22	Whether there is any Government	NA
22	Order/Policy relevant/relating to the	
	site?	
23	Forest land involved (hectares)	No
24	Whether there is any litigation	No
	pending against the project and/or	
	land in which the project is propose	
	to be set up?	
	(a) Name of the Court	
	(b) Case No.	
	(c) Orders/directions of the	
	Court, if any and its	
	Relevance with the proposed	
	project.	



(II) Activity

1. Construction, operation or decommissioning of the Project involving actions, which will cause physical changes in the locality (topography, land use, changes in water bodies, etc.)

Sr.	Information/Checklist	Yes/No	Details thereof (with approximate
No.	Confirmation		quantities/ rates, wherever possible)
1.1	Permanent or temporary change in land use, land cover or topography including increase in intensity of land use (with respect to local land	No	Basically land is Barren land. The proposed project site is designated for the intended purpose and the proposed built- up area is 27,675.157 Sq. M.
1.2	Clearance of existing land,	No	NA
13	Creation of new land uses:	No	NA
1.4	Pre-construction investigations e.g. bore houses, soil testing?	Yes	Ground water quality and Soil testing analysis has been carried out.
1.5	Construction Works?	Yes	About 27,675.157 Sq. M. will be construction work. Building configuration are as follows: Basement + Ground + First + Second – Fourth Parking + 28 Floors (Total: Basement + Ground + 31 Floors)
1.6	Demolition Works?	No	Demolition permission taken from MIDC.
1.7	Temporary sites used for construction works or housing of construction workers?	Yes	Temporary labour sheds and adequate sanitation facilities will be provided to the construction laborers at the site during the construction work.
1.8	Above ground buildings, structures or earthworks including linear structures, cut and fill or excavations.	Yes	Existing structure present but demolished and demolition permission was taken from MIDC. Excavated material during construction will be used for landscape and backfilling therefore there will not be any solid waste problem from the generation of construction- excavated earth.
1.9	Underground works including mining or tunneling?	No	NA
1.10	Reclamation works?	No	NA
1.11	Dredging?	No	NA
1.12	Offshore structures?	No	NA
1.13	Production and manufacturing Process?	No	NA



Sr.	Information/Checklist	Yes/No	Details thereof (with approximate
No.	Confirmation		quantities/ rates, wherever possible)
			with source of information data
1.14	Facilities for storage of goods or	Yes	Temporary sheds will be constructed
	materials?		for the storage of construction
			materials during construction phase as
			per the material requirement.
1.15	Facilities for treatment or disposal	Yes	Solid Waste Management
	of solid waste or liquid effluents?		Construction Phase
	1		During the construction phase, soak
			pits and septic tanks will be provided
			for disposal of waste water.
			Temporary sanitary toilets will also be
			provided during peak labor force.
			Operation Phase
			Total population of the commercial
			scheme is 2284 Nos.
			Quantity of Total Solid waste -
			573.50 KLD
			Quantity of Wet Waste – 401.45 KLD
			Quantity of Dry Waste – 172.05 KLD
			Biodegradable and non biodegradable
			waste will be segregated. Dry waste
			will be sent for recycling and wet
			waste will be treated by "Organic
			Waste Converter" for composting.
			Liquid Waste Management
			During Construction: From water
			tankers (For Construction): 10- 20
			KLD. (Depending upon the
			construction activity).
			From local authority. (For
			workers): 12 KLD.
			During Operation:
			Source: MIDU
			Total water Demand: 106.28 M ² /Day
			Domestic water Demand: 45.68
			IM /Day Eluching water Derver 1 57.10
			Flushing water Demand: $5/.10$
			M /Day Conversion $2.50 M^3/Darr$
			Total transford water availables 92.25
			10iai treated water available: 83.25
			M [~] /Day



Sr. No.	Information/Checklist Confirmation	Yes/No	Details thereof (with approximate quantities/ rates, wherever possible) with source of information data Treated water reused: 60.60 M^3 (Day
1.10	Estilizing for lange to me housing of	NT-	NA
1.16	operational workers?	NO	NA
1.17	New road, rail or sea traffic during construction of operation?	No	NA
1.18	New road, rail, air waterborne or other transport infrastructure including new or altered routes and stations, ports, airports etc.?	No	NA
1.19	Closure or diversion of existing transport routes or infrastructure leading to changes in traffic movements?	No	NA
1.20	New or diverted transmission lines or pipelines?	No	NA
1.21	Impoundment, damming, culverting, realignment or other changes to the hydrology of watercourses or aquifers?	No	NA
1.22	Stream crossings?	No	NA
1.23	Abstraction or transfers of water from ground or surface waters?	No	During construction phase MIDC water supply/ Tanker water will be used for the construction purpose.
1.24	Changes in water bodies or the land surface affecting drainage or run-off	No	NA
1.25	Transport of personnel or materials for construction, operation or decommissioning?	No	NA
1.26	Long-term dismantling or decommissioning or restoration works?	No	NA
1.27	Ongoing activity during decommissioning which could have an impact on the environment?	No	NA
1.28	Influx of people to an area in either temporarily or permanently?	Yes	Construction Phase 150 Nos. workers and 35 Nos. staff.
			Operation PhaseTotal population is expected to be2284.
1.29	Introduction of alien species?	No	NA
1.30	Loss of native species or genetic diversity?	No	NA



Sr. No.	Information/Checklist Confirmation	Yes/No	Details thereof (with approximate quantities/ rates, wherever possible) with source of information data
1.31	Any other actions?	No	NA

2. Use of Natural resources for construction or operation of project (such as land, water, materials or energy, especially any resources which are non-renewable or in short supply).

Sr. No.	Information/Checklist Confirmation	Yes/No	Details thereof (with approximate quantities/ rates, wherever possible) with source of information data
2.1	Land specially undeveloped or agricultural land (ha)	No	NA
2.2	Water (expected source & competing users) unit KLD	Yes	During Construction: 50 M³/DayFrom water tankers (ForConstruction): 10- 20 KLD.(Depending upon the constructionactivity).From local authority. (ForWorkers): 12 KLD.During Operation:Source: MIDCTotal Water Demand: 106.28M³/DayDomestic Water Demand: 45.68M³/DayFlushing water Demand: 57.10M³/DayCar washing: 3.50 M³/DayTotal treated water available: 83.25M³/DayTreated water reused: 60 60 M³/Day
23	Minerals (MT)	No	NA
2.4	Construction material – stone, aggregates, and/soil (expected source-MT)	Yes	Companies authorized/ approved local vendor.
2.5	Forests and timber (source-MT)	No	NA



		0	T
2.6	Energy including electricity and fuels	Yes	Electricity Source: MSEDCL
	(source, competing users) Unit: fuel		Total Demand Load for Project: KW
	(MT), energy (MW)		During Construction
			Source of power supply for project-
			D.G. Sets (100 KVA, 1 no.)
			During Operation
			Source: MSEDCL
			Alternative Back up: Diesel
			Generator (DG) Set for lifts,
			Common Lighting, water pumps &
			other essential services.
			Capacity of D.G. set for Common
			Amenities: 250 KVA- 2 Nos. for Fire
			pump with AMF &Auto Load sharing
			panel with sound proof enclosure
			with dB level not greater than 75 dB
			(A).
2.7	Any other natural resources (use	No	NA
	appropriate standard units)		

3. Use, storage, transport, handling or production of substances or materials, which could be harmful to human health or the environment or raise concerns about actual or perceived risks to human health

			-
Sr.	Information/Checklist	Yes/No	Details thereof (with approximate
No.	Confirmation		quantities/ rates, wherever
			possible) with source of
			information data
3.1	Use of substances or materials, which	No	NA
	are hazardous (as per MSIHC rules)		
	to human health or the environment		
	(flora, fauna, and water supplies)		
2.2	Changes in accumunate of diagonal on	Na	NTA
3.2	Changes in occurrence of disease or	NO	INA
	affect disease vectors (e.g. insect or		
	water borne diseases)		
3.3	Affect the welfare of people e.g. by	Yes	It can improve the living standard of
	changing living conditions?		that area.
3.4	Vulnerable groups of people who	No	NA
	could be affected by the project e.g.		
	hospital patients, children, the elderly		
	etc		
35	Any other causes	No	ΝΔ
5.5	Any ould causes		



Sr. No	Information/Checklist Confirmation	Yes/No	Details thereof (with approximate quantities/ rates wherever
100			possible) with source of
			information data
4.1	Spoil, overburden or mine wastes	No	NA
4.2	Municipal waste (domestic and or commercial wastes)	Yes	Solid Waste Management Construction Phase During the construction phase, soak pits and septic tanks will be provided for disposal of waste water.
			be provided during peak labor force.
			Total population of the commercial scheme is 2284 Nos.
			573.50 KLD Quantity of Wet Waste – 401.45
			Quantity of Dry Waste – 172.05 KLD
			Biodegradable and non biodegradable waste will be segregated. Dry waste will be sent for recycling and wet waste will be treated by "Organic Waste Converter" for composting.
4.3	Hazardous wastes (as per hazardous waste management rules)	No	NA
4.4	Other industrial process wastes	No	NA
4.5	Surplus product	No	NA
4.6	Sewage sludge or other sludge from effluent treatment	Yes	Sludge from STP will be used as manure for green belt development at site.
4.7	Construction or demolition wastes	Yes	Approximately 500 Cu. Ft. will be earthwork and will be used for back filling.
4.8	Redundant machinery or equipment	No	NA
4.9	Contaminated soils or other materials	No	NA
4.10	Agricultural wastes	No	NA
4.11	Other solid wastes	No	NA

4. Production of solid wastes during construction or operation or decommissioning (MT/month)



Sr. No.	Information/Checklist Confirmation	Yes/No	Details thereof (with approximate quantities/ rates, wherever possible) with source of information data
5.1	Emissions from combustion of fossil fuels from stationary or mobile sources	No	NA
5.2	Emission from production processes	No	NA
5.3	Emissions from materials handling including storage or transport	No	NA
5.4	Emissions from construction activities including plant and equipment	No	NA
5.5	Dust or odours from handling of materials including construction materials, sewage and waste	Yes	As per EMP
5.6	Emissions from incineration of waste	No	NA
5.7	Emissions from burning of waste in open air (e.g. slash materials, construction debris)	No	NA
5.8	Emissions from any other sources	No	NA

5. Release of pollutants or any hazardous, toxic or noxious substances to air (kg/hr)

6. Generation of Noise and vibration, and emissions of Light and heat

Sr. No.	Information/Checklist Confirmation	Yes/No	Details thereof (with approximate quantities/ rates, wherever possible) with source of information data
6.1	From operation of equipment e.g. engines, ventilation plant, crushers	Yes	Noise generation from construction equipments used for drilling, cutting operations. During Operation Phase, Noise will be generated due to operation of DG sets.
6.2	From industrial or similar processes	No	NA
6.3	From construction or demolition	Yes	As per EMP
6.4	From blasting or piling	No	NA
6.5	From construction or operational traffic	Yes	As per EMP
6.6	From lighting or cooling systems	No	NA
6.7	From any other sources	No	NA



7. Risks of contamination of land or water from releases of pollutants into the ground or into sewers, surface waters, groundwater, coastal waters or the sea

Sr. No.	Information/Checklist Confirmation	Yes/No	Details thereof (with approximate quantities/ rates, wherever possible) with source of information data
7.1	From handling, storage, use or spillage of hazardous materials	No	NA
7.2	From discharge of sewage or other effluents to water or the land (expected mode and place of discharge)	No	Sewage effluents will be treated and reused for flushing, gardening areas and in car washing. 60.60 M³/Day treated water will be reused.
7.3	By deposition of pollutants emitted to air into the land or into water	No	NA
7.4	From any other sources	No	NA
7.5	Is there a risk of long term build up of pollutants in the environment from these sources?	No	NA

Risk of accidents during construction or operation of the project, which could affect 8. human health or the environment

Sr. No.	Information/Checklist Confirmation	Yes/No	Details thereof (with approximate quantities/ rates, wherever possible) with source of information data
8.1	From explosions, spillages, fires etc	No	NA
	from storage, handling, use or		
	production of hazardous substances		
8.2	From any other causes	No	There is a risk of accident during
			construction however proper safety
			measures will be taken.
8.3	Could the project be affected by	No	The project falls under moderate
	natural disasters causing		seismic zone-III and further it is
	environmental damage (e.g. floods,		not flood prone or landslide prone
	earthquakes, landslides, could burst		areas. Hence, no risk due to natural
	etc)?		hazards is envisaged.

9. Factors which should be considered (such as consequential development) which could lead to environmental effects or the potential for cumulative impacts with other existing or planned activities in the locality

Sr. No.	Information/Checklist	Yes/No	Details ther	eof (with	approxi	mate
	Confirmation		quantities/	rates,	wher	ever
			possible)	with	source	of
			information	data		



Sr. No.	Information/Checklist Confirmation	Yes/No	Details thereof (with approximate quantities/ rates, wherever possible) with source of information data
9.1	Lead to development of supporting, lities, ancillary development or development stimulated by the project which could have impact on the environment e.g.: Supporting infrastructure (roads, power supply, waste or waste water treatment, etc) Housing development Extractive industries Supply industries Other	Yes	Commercial Development
9.2	Lead to after use of the site, which could have an impact on the environment	No	NA
9.3	Set a precedent for later developments	No	NA
9.4	Have cumulative effects due to proximity to other existing or planned projects with similar effects	No	NA

(iii) Environmental Sensitivity

S. No.	Areas	Name/ Identity	Aerial distance (within15 km.) from Proposedprojectlocationboundary
1	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value	Kharghar Forest area	13.2 Km.
2	Areas which are important or sensitive for ecological reasons - Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests	Panvel Creek	5.0 Km.
3	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration	NA	
4	Inland, coastal, marine or underground waters	NA	
5	State, National boundaries	No	Not Applicable
6	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas	No	Not Applicable
7	Defense installations	No	Not Applicable
8	Densely populated or built-up area	The site is located in the densely populated Mumbai city. The nearest towns from the project site are,Nerul	
9	Areas occupied by sensitive man- made land uses (hospitals, schools, places of worship, community facilities)	DY Patil Hospital DY Patil International School Dr. DY Patil Sports	Approx. 1.3 Km. Approx. 0.90 Km. Approx. 1.30 Km.
10	Areas containing important, high	Academy No	Not Applicable



	quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)		
11	Areas already subjected to pollution or environmental damage. (those where existing legal environmental standards are exceeded)	No	Not Applicable
12	Areas susceptible to natural hazard which could cause the project to present environmental problems (<i>earthquakes</i> , subsidence, landslides, erosion, flooding or extreme or adverse climatic conditions)	Yes	The project site lies in Seismic Zone III as per the seismic zone map of India and is moderately susceptible to earthquake. Further it is not flood prone or landslide prone areas. Hence, no risk due to natural hazards is envisaged.

(IV) Proposed Terms of Reference for EIA studies

Not applicable since it is a construction sector project.

"I hereby given undertaking that the data and information given in the application and enclosures are true to the best of my knowledge and belief and I am aware that if any part of the data and information submitted is found to be false or misleading at any stage, the project will be rejected and clearance given, if any to the project will be revoked at our risk and cost."

Date: 03/11/2016

Place: Navi Mumbai

For M/s. Vishwagreen realtors Pvt. Ltd.





APPENDIX II

(See paragraph 6)

FORM-1 A

(Only for construction projects listed under item 8 of the Schedule)

CHECK LIST OF ENVIRONMENTAL IMPACTS

[Project proponents are required to provide full information and wherever necessary attach explanatory notes with the Form and submit along with proposed environmental management plan & monitoring programme]

1	LAND ENVIRONMENT [Attach panoramic view of the project site and the vicinity]								
1.1	Will the exi surrounding	the existing land use get significantly altered from the project that is not consistent with the undings? (Proposed land use must conform to the approved Master Plan / Development Plan							
	of the area.	hange of land use if any and the statutory approval from the competent authority to be							
	submitted).	Attach Maps of (i) site location, (ii) surrounding features of the proposed site (within							
	500 meters)) and (iii) The site (indicating levels & contours) to appropriate scales. If not available							
	attach only	conceptual plans.							
	The propose	d land use is in conformit	ty with the DP of the area.						
	Agriculture	/ Livestock:							
	There is no a	gricultural activity in the	vicinity of the proposed area.						
1.2	I. PROJEC	<u>r details</u> :	* * *						
	A. Name &	Location: Plot No. D-10	08/1, T.T.C. Industrial Area, Nav	vi Mum	ıbai, Maharashtra.				
	D D								
	B. Proposed	Building Details:							
		Dunuing uctails							
	Configuration Height								
	1Building + Basement + Ground + First Floor + Second to Fourth floor 118.80 M								
	parking +	28 Floors (Total Basement + Ground + 31 Floors)							
	C. Area Stat	tement:							
	Table No.2:	Area Statement							
	Sr. No.	Description			Total				
					(Area in Sq.mt)				
	1.	Plot area			3300.00				
	2.	2. Deduction Nil							
	3.	Net plot Area			3300.00				
	4.	Permissible FSI			3.0				
	5.	FSI Consumed			9798.852				
	6.	Non FSI area			17876.305				
	7.	Total Built up Area			27675.157				
	8.	RG area	On Ground		NA				
			On Podium		NA				



	9.	Ground Cox	verage		1469	.272 (44.52%)		
	10	No. of baser	ment. B	asement area	1Basement a	and area 1974 122 Sq.		
	10.		inent, D		1 Dusement e	Mt.		
	11.	No. of podium. Podium area			1 Stilt + 5 Le	vels of podium parking		
		1	,		and area	6915.966 Sq. Mtrs.		
	12.	Total no. of	units		1 Com	mercial Building		
	13.	Building Co	onfigura	ation	1Building + I	Basement + Ground +		
					First Floor +	First Floor + Second to Fourth floor		
					parking + 28	parking + 28 Floors (Total		
					Basement + C	Ground + 31 Floors)		
	D Parking S	Statement						
		juicinent.						
	Table No.3:	Parking Stat	ement					
		Г	0		T ()			
			Sr.	Description	Total			
		-	<u>1</u> NO.	Porking Poquirad	233			
		-	1.	Parking Proposed	233			
		-	2.	2 Wheeler Proposed				
		-	<u> </u>	Parking Area (Sq. M.)	6915 966			
13	What are th	ne likelv imn	acts of	the proposed activity or	the existing faci	lities adjacent to the		
1.5	proposed si	te? (Such a	s oper	spaces, community fac	cilities, details of	the existing land use.		
	disturbance	to the local e	cology)		childes, actuals of	the emisting fund use,		
	The propose	d project is	a comr	nercial project. This area	will be now conv	verted into well organized		
	complex whi	ch will have t	better li	ving conditions. Also green	n features such as S	TP, Rain water harvesting,		
	additional tre	e plantation,	etc shal	l be practiced. Hence this p	project will have ov	verall positive impact socio		
	economy.							
1.4	Will there be	e any signific	ant lan	d disturbance resulting in	ı erosion, subsiden	ce & instability? (Details		
	of soil type,	slope analysis	s, vulne	erability to subsidence, sei	smicity etc. may b	e given).		
	No, there wil	l not be any si	ignifica	nt land disturbance in erosi	on, subsidence & ir	nstability.		
1.5	Will the pro	oposal involv	e altera	ation of natural drainage	e systems? (Give d	letails on a contour map		
	showing the	natural drain	nage ne	ear the proposed project s	ite)			
	No, the prope	osal will not in	nvolve a	alteration of natural drainag	ge systems.			
1.6	What are	the quantitie	es of	earthwork involved in	the construction	activity-cutting, filling,		
	reclamation	etc. (Give d	etails o	of the quantities of earth	work involved, tr	ansport of fill materials		
	trom outside the site etc)							
	Debris, demolition waste and excavated material generated partly disposed. Excess soil shall be disposed to authorized aits with permission from least outhorized							
17	Give details	regarding wa	nter su	nly waste handling etc.d	uring the construc	tion period		
1./	Water Requir	rement during	Constr	uction Phase	uring the construct			
	From water t	ankers (For C	onstruc	tion). 10- 20 KLD (Depend	ding upon the const	ruction activity)		
	From local a	uthority (For	Workei	(Depend): 10 20 KED: (Depend) (s): 12 KLD	ang upon the const	ruetion detryity).		
	The sewage generated approximately 11 KLD.							
1.8	Will the low	lying areas	& wetla	ands get altered? (Provide	e details of how lov	w lying and wetlands are		
	getting modified from the proposed activity)							



	No.
1.9	Whether construction debris & waste during construction cause health hazard? (Give quantities of
	various types of wastes generated during construction including the construction labour and the
	means of disposal)
	Solid Waste Generation during Construction Phase:
	Debris, demolition waste and excavated material generated partly disposed. Excess soil shall be
	disposed to authorized site with permission from local authority and handed over to local authority.
2	WATER ENVIRONMENT
2.1	Give the total quantity of water requirement for the proposed project with the breakup of
2.1	requirements for various uses. How will the water requirement be met? State the sources &
	quantities and furnish a water balance statement.
	Water Requirement & Source:
	During Construction Phase – From water tankers (For Construction): 10- 20 KLD. (Depending upon
	the construction activity).
	From local authority. (For Workers): 12 KLD.
	During Operational Phase
	Source- MIDC
	Total Water Demand: 106.28 M ³ /Day
	Domestic Water Demand: 45.68 M ³ /Day
	Flushing water Demand: 57.10 M ³ /Day
	Car washing: $3.50 \text{ M}^3/\text{Dav}$
	Total treated water available: 83.25 M^3/Dav
	Treated water reused: 60.60 M ³ /Day
2.2	What is the capacity (dependable flow or yield) of the proposed source of Water?
	Domestic Water Supply from local authority.
2.3	What is the quality of water required, in case, the supply is not from a municipal source? (Provide
	physical, chemical, biological characteristics with class of water quality)
	Drinking water quality of Class A as per Indian Standard: 10500, 2004 from local authority.
2.4	How much of the water requirement can be met from the recycling of treated wastewater? (Give the
	details of quantities, sources and usage)
	About 60.60 KLD of water will be recycled for flushing and car washing at commercial building.
2.5	Will there be diversion of water from other users? (Please assess the impacts of the project on other
	existing uses and quantities of consumption)
	NA.
2.6	What is the incremental pollution load from wastewater generated from the proposed activity?
	(Give details of the quantities and composition of wastewater generated from the proposed activity)
	The quantity of sewage is about 90% of domestic water consumption. The waste water generated from
	the proposed activity shall be domestic. The sewage will be collected from 234 tenements.
2.7	Give details of the water requirements met from water harvesting? Furnish details of the facilities
	created.
	It is proposed to provide open collecting well.
	This being commercial project proponents shall be responsible for the operation and maintenance till he
	does the convergence of property to the members. All further maintenance will be done by the Society.
2.8	What would be the impact of the land use changes occurring due to the proposed project on the
	runoff characteristics (quantitative as well as qualitative) of the area in the post construction phase
	on a long term basis? Would it aggravate the problems of flooding or water logging in any way?



	Management plan for Flood is as follows :
	• Storm water drain shall be cleaned at regular interval.
	• Mapping the areas within or leading in or out of the building that will be water logged, flooded or
	isolated due to the flood. The areas will be marked after completion of the project (as final ground
	levels etc. will be available after completion).
2.9	What are the impacts of the proposal on the ground water? (Will there be tapping of ground water;
	give the details of ground water table, recharging capacity, and approvals obtained from competent
	authority, if any)
	It is proposed to provide open collecting well.
	This being commercial project proponents shall be responsible for the operation and maintenance till he
2.10	does the convergence of property to the members. All further maintenance will be done by the Society.
2.10	What precautions/measures are taken to prevent the run-off from construction activities polluting
	land & aquifers? (Give details of quantities and the measures taken to avoid the adverse impacts).
	The runoff from the site during construction phase would be very negligible.
	Inis will be prevented as under:
	Use of wet jute cloth covering the wans and soaking the same with minimum quantity of water to avoid dripping. This will also help in conserving water
	avoid dripping. This will also help in conserving water. By collecting the running water in an impervious pit and using the same again for curing purpose
2.11	How is the storm water from within the site managed? (State the provisions made to avoid flooding of
2.11	the area details of the drainage facilities provided along with a site layout indication contour levels)
	Internal storm water drains will be constructed strictly in accordance to the governing authority
	regulations. The storm water collected through the storm water drains.
2.12	Will the deployment of construction laborers particularly in the peak period lead to unsanitary
	conditions around the project site (Justify with proper explanation)
	• During construction phase, temporary mobile toilets shall be used. Hence there will not be
	unsanitary conditions around the project site.
	• Regular segregation and disposal of solid waste generated by these workers shall be as per local
	practices.
	• First aid and medical facilities will be provided to all the concerned people working on the site.
	• Proper housekeeping will be maintained throughout the premises.
2.13	What on-site facilities are provided for the collection, treatment & safe disposal of sewage? (Give
	details of the quantities of wastewater generation, treatment capacities with technology & facilities
	for recycling and disposal).
	The sewage will be collected from 234 tenements. The quantity of sewage is about 90% of domestic water
	consumption. The waste water generated from the proposed activity shall be domestic. Sewage will be
	treated in sewage treatment Plant. The treated sewage will be partly recycled for flushing and partly
	connected to Municipal sewer line.
2.14	Give details of dual plumbing system if treated waste used is used for flushing of toilets or any other
	Recycling of treated sewage for flushing, AC makeup and gardening.
2	Color coding for dual plumbing system shall be done as per standard practices.
3	VEGETATION Is there any threat of the project to the bigdiversity? (Cive a description of the local accounter
3.1	is mere any mreat of the project to the blochversity: (Give a description of the local ecosystem with its unique features, if any)
	There is no threat to the biodiversity due to the project under reference
27	Will the construction involve extensive cleaning or modification of vegetation? (Dravide a detailed
5.2	will the construction involve extensive clearing of mounication of vegetation; (Frovide a detailed



	account of the trees & vegetation affected by the project).
	RG Area not required.
3.3	What are the measures proposed to be taken to minimize the likely impacts on important site features (Give details of proposal for tree plantation, landscaping, creation of water bodies etc along with a layout plan to an appropriate scale)
	RG Area not required
4	Ro Area not required.
4	
4.1	Is there likely to be any displacement of fauna- both terrestrial and aquatic or creation of barriers for their movement? Provide the details.
	No
4.2	Any direct or indirect impacts on the avifauna of the area? Provide details.
	No
4.3	Prescribe measures such as corridors, fish ladders etc to mitigate adverse impacts on fauna.
	Not applicable.
5	AIR ENVIRONMENT
5.1	Will the project increase atmospheric concentration of gases & result in heat islands? (Give details
	of background air quality levels with predicted values based on dispersion models taking into
	account the increased traffic generation as a result of the proposed constructions)
	The project will result in negligible increase in the atmospheric concentrations of gases like PM, SO2,
	NOX & CO due to D.G. sets operation (backup power only) and the increased traffic activity. The
	proposed activity will not result in the formation of any heat island, as the building will be covered with
	high solar reflective index materials.
	Inough three and four wheelers movement is expected during operation phase, its impact would be
	negligible. Construction and demolition activities generate the emission of toxic substances like
	Magnesium, innesione and dusi.
	transport will help to lower the values of CO, posing less of an impact on-site and at receptor locations
5.2	What are the impacts on generation of dust smoke, adorous fumes or other hazardous gases? Cive
5.2	details in relation to all the meteorological parameters
	During construction phase. Dust Particulate Matter is the main pollutant, which may be generated during
	construction activities. Other emission sources are intermittent and include emissions of SO_2 NOx and CO
	from materials transport of heavy vehicles on site etc. Proper unkeep and maintenance of vehicles
	sprinkling of water on roads and construction site are some of the measures that would reduce the impact
	during construction phase.
	Sources of Air pollution During Operational phase :
	The gaseous emissions from vehicles.
	Emissions from DG set while in operation only during power failure.
	Mitigation Measures:
	The traffic congestion will be avoided by proper parking arrangement and maintaining smooth
	traffic flow.
	➢ Regular PUC checkup for vehicles.
	\succ CPCB approved DG sets only will be used.
	Proper maintenance of DG sets shall be done and Low sulphur fuel shall be used.
	The proposed project will not have any direct impact on air environment after completion.
53	Will the proposal create shortage of parking space for vehicles? Furnish details of the present level
5.5	The proposal of our shorings of partial space for temptor. I at most a caus of the present level



	of transport infrastructure and measures proposed for improvement including the traffic management at the entry & exit to the project site.					
	The project proponents have proposed to provide well organized parking arrangement.					
	Table No.14: Parking Statement					
		Sr. No.	Description	Total		
		1.	Parking Required	233		
		2.	Parking Proposed	233		
		3.	2 Wheeler Proposed			
		4.	Parking Area	6915.966		
5.4	Provide details of the mo footpaths etc., with areas	vement under	t patterns with internal ro each category.	oads, bicycle tracks	s, pedestrian pathways,	
	There will be sufficient wi	ide entr	ies & exits points and sepa	rate service road for	or service vehicles and fire	
	tenders proposed in the pro-	oject wi	th sufficiently wide internal	l roads and pedestri	an pathways.	
5.5	Will there be significant	increas	e in traffic noise & vibra	tions? Give details	s of the sources and the	
	measures proposed for m	itigatio	on of the above.			
	The project being comm	ercial p	project, the source of nois	se is mainly vehic	cular noise. The project	
	proponents have proposed	d to pr	ovide well organized park	king arrangement a	and maintaining smooth	
	traffic flow which would	help in	reducing traffic congestion	and noise levels.	Frees would act as noise	
	barrier and will reduce the	noise le	evel.			
	During power failure to m	itigate t	he noise due to D.G. sets w	hile in operation D	.G. sets will be enclosed in	
	acoustic enclosures.					
5.6	air quality around the project site? Provide details					
	air quality around the pr	oject si	te: Provide details.	uin a an anation al mh	and The Dellisterite like	
	D.G. Sets will be operated	o from	amissions from D.G. Sata	will be discharged	through yeart of proper	
	height	e nom	chilissions nom D.O. Sets	will be discharged	t through vent of proper	
	DG sets are with inbuil	t acous	tic enclosures to reduce t	he noise of DG	sets while in operation	
	Plantation of trees would a	ct as no	bise barrier and will reduce	the noise level.	sets while in operation.	
6	AESTHETICS					
6.1	Will the proposed constructions in any way result in the obstruction of a view. scenic amenity or					
	landscapes? Are these considerations taken into account by the proponents?					
	No.					
6.2	Will there be any adverse impacts from new constructions on the existing structures? What are the					
	considerations taken into account?					
	All precautions will be taken to mitigate the impact due to water, air and noise pollution during					
	construction and operation phase. Environmental Management Plan is prepared and shall be					
	implemented along with Environmental Monitoring Programme.					
6.3	Whether there are any local considerations of urban form & urban design influencing the design criteria? They may be explicitly spelt out.					
	No, there are no such local	consid	erations.			
6.4	Are there any anthropo	logical	or archaeological sites	or artifacts nearl	by? State if any other	
	significant features in the	e vicinit	y of the proposed site hav	e been considered.	•	
	No.					
7	SOCIO-ECONOMIC AS	PECT	S:			



7.1	Will the proposal result in any changes to the demographic structure of local population? Provide				
	the details.				
	There will be influx of about ~ 2284 person				
7.2	Give details of the existing social infrastructure around the proposed project.				
	The proposed project site and its surrounding area lie at Rabale. The area is well served by electricity,				
	telephone, and water and transportation infrastructure. The locality is equipped with government schools,				
	colleges within the locality.				
7.3	Will the project cause adverse effects on local communities, disturbance to sacred sites or other				
	cultural values? What are the safeguards proposed?				
	No, the project will not cause any adverse effects on local communities, disturbance to sacred sites or				
	other cultural value.				
8	BUILDING MATERIALS				
8.1	May involve the use of building materials with high-embodied energy. Are the construction				
	materials produced with energy efficient processes? (Give details of energy conservation measures in				
	the selection of building materials and their energy efficiency)				
	Cement, Bricks and steel are the main components of construction. For the purpose of paving, sun dried				
	pavers will be used instead of baked pavers as they are manufactured from energy efficient processes.				
	Instead of regular clay bricks, fly ash-cement bricks and laterite rock blocks available locally will be used.				
	Also, ready mix concrete with 20% fly ash, PPC cement and recyclable aluminum in door and window				
0.0	will be used to reduce environmental pollution at site.				
8.2	Transport and handling of materials during construction may result in pollution, noise & public				
	nuisance. What measures are taken to minimize the impacts?				
	Transportation and handling of materials during construction phase results mainly in pollution of air				
	&noise. The various store menoed to mitigate the enticipated imposts on as under				
	The various steps proposed to mitigate the anticipated impacts are as under:				
	• To Control dust-				
	- Use of barricading the periphery				
	- Dust mask will be provided to workers.				
	 10 Control Gaseous emissions – Vahiala compiler motorials to be transmosted must have DUC contificate 				
	- Venicle carrying materials to be transported must have PUC certificate.				
	- Heavy vehicle movement with de anowed only during hight time.				
	- Construction equipments with fulling control technologies will be used. Regular maintenance of the equipments will be carried out				
	- To control Noise generation				
	 Barricade the site periphery by corrugated tip sheet so as to confine noise within site 				
	- Far muff/ ear plug will be provided to workers				
	- The construction activities will be carried out during the daytime only				
83	Are recycled materials used in roads and structures? State the extent of savings achieved?				
0.5	Yes, recycled materials will be used in roads and structures. Construction debris such as waste concrete				
	and waste plaster can be used as sub base of drives way and footing. The excavated soil will be used for				
	leveling the site and top soil will be conserved for landscaping.				
8.4	Give details of the methods of collection, segregation & disposal of the garbage generated during				
	the operation phases of the project.				
	> Segregation of two types of garbage i.e. biodegradable and non-biodegradable shall be done by means				
	of provision of two garbage bins with different color.				
	> This would ensure that waste segregation is done at source itself.				



	> The non-biodegradable garbage shall be put into separate bins and shall be handed over to local authority						
	 Biodegradable garbage shall be treated in Organic Waste Converter and shall be used as manure. 						
9	FNERGY CONSERVATION						
9.1	Give details of the po	ower requirements, source of supply, backup source etc. What is the energy					
	consumption assumed	l per square foot of built-up area? How have you tried to minimize energy					
	consumption?						
	Power requirement:						
	During Construction	Phase –					
	Source: MSEDCL						
	D.G. Sets: as per requir	ement					
	Source MSEDCL	nase -					
	Source. MISEDCE						
	Table No.18: Power R	equirement					
	Phase	Total (KW)					
	Connected load	1167 KW					
	DC	250 KVA capacity					
	Following Energy con	servation measures are proposed for Energy Saving ·					
	 Monitoring of d 	aily electricity consumption & recording of maximum demand will be done.					
	 Power factor co 	prrection. – will be provided for common loads only.					
	Using less light	s in common areas in non peak hours.					
	Common area l	ighting with LED Lamps					
	Multiple circuit	ts for lighting.					
	Solar energy us	e for water heater & lighting the part of the garden area & part of road.					
9.2	What type of, and cap	acity of, power back-up to you plan to provide?					
0.2	Adequate nos. of DG sh	hall be provided.					
9.3	What are the chara characteristics related	acteristics of the glass you plan to use? Provide specifications of its					
	Glass shall be used in commercial.						
9.4	What passive solar architectural features are being used in the building? Illustrate the applications						
7.7	made in the proposed project.						
	Maximize the us	se of natural lighting though design.					
	> The roof shall be insulated so that there will not be direct heat gain due to sunlight.						
9.5	Does the layout of streets & buildings maximize the potential for solar energy devices? Have you						
	considered the use of street lighting, emergency lighting and solar hot water systems for use in the						
	building complex? Substantiate with details.						
0.6	Solar energy will be used. Is shading effectively used to reduce cooling/heating loads? What principles have been used to						
9.0	18 Shauing effectively	used to reduce cooling/nearing loads? what principles have been used to of Walls on the Fast and the West and the Deef? How much energy series					
	has been effected?	of wans on the East and the west and the Kool. How much energy saving					
	It is proposed to insulat	e the roofs of these buildings to minimize the heat gain and intern saving the					
	electricity.						
9.7	Do the structures use	energy-efficient space conditioning, lighting and mechanical systems? Provide					
	technical details. Prov	vide details of the transformers and motor efficiencies, lighting intensity and					



	air-conditioning load assumptions? Are you using CFC and HCFC free chillers? Provide					
	Following Energy conservation mansures are proposed for Energy Soving:					
	Monitoring of daily electricity consumption & recording of maximum demand will be done					
	 Power factor correction will be provided for common loads only. 					
	 I ower factor correction. – will be provided for common loads only. Using less lights in common areas in non neak hours. 					
	Common area lighting with LED Lampa					
	 Common area righting with LED Lamps Multiple circuits for lighting 					
	 Nulliple clicuits for lighting. Solar anargy use for water bester & lighting the part of the garden area. & part of read 					
0.8	What are the likely effects of the building activity in altering the miare alimeter? Provide a self					
9.0	what are the likely effects of the bullding activity in alterning the initro-chinates: Frovide a sen					
	inversion offects?					
	It will not alter the microclimate. The construction will not cause inversion					
00	What are the thermal characteristics of the huilding envelope? (a) roof: (b) external walls: and (c)					
).)	fenestration? Give details of the material used and the U-values or the R values of the individual					
	components					
	components.					
	The project is not centrally air conditioned thus the ECBC guidelines will not be applicable to this project.					
	To reduce heat intake use of insulation or other materials will be decided by the occupants of the building.					
9.10	What precautions & safety measures are proposed against fire hazards? Furnish details of					
	emergency plans.					
	FIRE FIGHTING:					
	As per the regulations of CFO NOC					
	Provision of Fire Protection System.					
	Provision of Fire Alarm System as per I.S code.					
	Provision of Fire detection system.					
	> Provision of Fire hydrants, Fire pumps, booster pumps, sprinkler pumps: Electric, supply					
	independent circuit & fire hydrant line.					
	Provision of portable fire extinguishers of IS specification.					
	Adequate underground and overhead separate water storage tanks.					
	Complete Disaster Management Plan (DMP) is made by considering all the factors responsible for					
	management of any minor or major disaster.					
9.11	If you are using glass as wall material provides details and specifications including emissivity and					
	thermal characteristics.					
	Glass shall be used in commercial only for windows.					
9.12	What is the rate of air infiltration into the building? Provide details of how you are mitigating the					
	effects of infiltration.					
	It has not been studied.					
9.13	To what extent the non-conventional energy technologies are utilized in the overall energy					
	consumption? Provide details of the renewable energy technologies used.					
	Will be provided.					
10	Environment Management Plan					
	The Environment Management Plan would consist of all mitigation measures for each activity to be					
	undertaken during the construction, operation and the entire life cycle to minimize adverse					
	environmental impacts as a result of the activities of the project. It would also delineate the					
	environmental monitoring plan for compliance of various environmental regulations. It will state the					
	steps to be taken in case of emergency such as accidents at the site including fire.					
•						



Sr. no.	Environmental Component	Activity	Impacts	Precautionary measures	
1	Ambient Air Quality & Noise level	 Site Clearance Excavation Construction of Structures Heavy vehicle traffic Use of DG Set Open burning of waste 	 Increased level of dust & other air pollutants Increased noise level. 	 For controlling air pollution : Water Sprinkling Cover on trucks Use of RMC instead of preparing concrete at site Vehicles with valid PUC DG sets: CPCH approved low sulphur fuel. For controlling noise pollution : Barricades along th periphery of th site. Ear Plugs fo Labourers D.G. sets CPCH approved No noisy work in night shifts. Using electrically operated construction equipment 	
2	Water	 Use of fresh water for Construction activity / labors Wastewater generation Disposal of site Run off into SWD Water logging 	 Stress on the water supply in the vicinity Sedimentation, Pollution of nearby water courses. Unhygienic condition for surrounding 	 Use of tanker water for construction. No burden of municipal supply Provision of temporary toilets for labors. Precaution to avoid water provision to avoid water provision to avoid water provision to avoid water provide the second secon	
3	Soil	 Preconstruction and excavation debris Storage of construction material / chemicals Transportation of 	 surrounding residents. Loss of good fertile soil Soil erosion, Soil contamination due to mixing of 	 Proper and Separat storage construction material Storage of a 	



	Even after taking pre	Residual paints Solvents/bituminous material etc. operation / maintenance Generation of garbage by labor cautions if soil is found to be	material/ accidental spillage of chemicals /oils	 on impervious layers viz. concrete. Transportation, storage and handling, disposal of HW as per their guidelines and handing it over to authorized agencies. Use of electrically operated machinery. Segregation of waste at Source e removed and
4	disposed off to autho Ecology	 Site clearance, Construction of structures, cutting of trees 	 Disturbing natural flora and fauna Loss of vegetation from chemical spills from vehicles 	 Plantation of local tree species on the Periphery of site Plantation of trees will start in middle of construction phase. Regulation of vehicular trips and speed and proper maintenance of machinery.
5	Safety & Hygienic Measures	Construction work Labor	 Positive impact : Employment generation Safety and hygiene at site may be affected during construction 	 Adequate drinking water, toilet and bathing facilities. Regular analysis of drinking water. Personal protective and safety equipment will be provided. First aid facility. Regular health check up Regular pest control at site.



EMP	for Operation Ph	ase				•	Educational and awarenes programme for safety measures.
Sr.	Environmental	Activity	Imp	acts	Precaut	ionary	
1	Ambient Air Quality& Noise level	Increased vehicular trips, Use of DG sets	 Traffic congestio Air pollut Increase i noise leve 	n ion n d	 Adequate provision; organized managemer for Smooth vehicles. Regular check-up vehicles. DG sets: CPCB Proper Maintenanc of Low fuel. Acoustic Enclosures sets Plantation will redu pollution a act as noise 	parking well traffic nt plan flow of PUC for As per norms, ee, Use sulphur for DG of tress ce air nd also buffer.	
2	Water	 Increased Demand of natural water, Generation of waste water Increased paved structure 	 Stress existing supply, Pollutio water bo Increase off from 	on water n of odies d run site.	 Use of wate practices Adoption of flush system Rain harvesting Plantation water contrees. STP is plan treated sewabe used secondary requirements flushing gardening 	r saving of dual water of less nsuming ned and age will for s like and	



3	Land	 Solid waste generation, Transportation of hazardous material Increased paved structure 	 Improper disposal of waste, accidental spillage of hazardous chemicals leads to soil contamination Increased run off from site. 	 Waste minimization recovery and reuse Segregation at source for all solid waste streams Recycling of non biodegradable garbage Treatment of biodegradable garbage by Organic waste converter and its use as manure Use of dried STP sludge as manure Transportation, storage and handling, disposal of HW as per their guidelines and handling it over to authorized agencies. Strom water drainage of adequate
	Even after takin and disposed off	g precautions if soil to authorized site	is found to be conta	capacity. aminated, it shall be removed
4	Ecology	Introduction of new tree species	 Disturbing natural flora and fauna Increased exposure to anthropogenic activities. 	• Plantation of local tree species.
5	Safety & Hygienic Measures	Influx of people	 Stress on all utilities, risk and danger due to natural and manmade disaster Positive impact: Employment generation 	• Emergency preparedness plan and Disaster management plan will be Prepared and explained with the help of local NGO's and surrounding people and authority.



neasures will be implemented. Hazardous Waste Management Plan:							
Constru	action Phase: montal Managament Plan for Hazardous Waste	Concretion					
Sr. No.	Sr. Source of Hazardous Waste Generation Mitigation Measures						
1	Leakages and spillage oil or fuel	* Contaminated to Authorized I * Bituminous shall not be allo	 * Contaminated soil if any shall be disposed off to Authorized Disposal Site. * Bituminous materials /any other chemicals shall not be allowed to leach into the soil. 				
2	Residual Paints/Solventsdo						
Other hazardous wastes, if any, shall also be handled in the similar way through authorized dealers only. Operational Phase							
Sr. No.Source of Hazardous Waste GenerationMitigation MeasuresDis							
1.	Waste Oil from D.G Sets		Waste oil will be handed over to authorized recyclers.				



ANNEXURE I: GOOGLE IMAGE



Plot No. D-108/1, T.T.C. Industrial area, Nerul, Navi Mumbai

ANNEXURE II: MASTER LAYOUT



Access Road: 18.00 mt Wide Internal Roads / Secondary Roads: 9.00 mt Turning Radius: 9.00 mt

