## <u>FORM-1</u>

(I) Basic Informatio	n
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Sr.	Item	Details		
No.				
1	Name of the Project	Proposed Redevelopment of	existing buildings on	
		plot bearing CTS No. 8,	Borla village, N G	
		Acharya Marg, Chemb	our, Mumbai- 71,	
		Maharashtra		
2	S. No. in the Schedule	8 (a)		
3	Proposed capacity/area /length/tonnage	Plot Area. (m <sup>2</sup> )	11541.28 Sq.m	
	to be handled/command area/lease	FSI Area (m <sup>2</sup> )	24132.81 sqm	
	area/ number of wells to be drilled	Non-FSI Area (m <sup>2</sup> )	35720.11 sqm	
		Total Construction Area	59852.92 sqm	
		$(m^2)$		
1	New/Expansion/Modernization	New Project		
5	Existing Capacity/Area atc	Construction of 7 Residentia	wings is proposed	
5	Existing Capacity/Area etc.	B1 B2 B3 B4 B5 wings H	as been constructed	
		$A_{roo} = -3640043$ sq m)		
6	Category of Project i.e. 'A' or 'B'	'B'		
7	Does it attract the general condition? If	Not Applicable		
,	Yes Please specify			
8	Does it attract the specific condition?	Not Applicable		
Ũ	If yes, Please specify			
9	Location			
	Plot/Survey/Khasra No.	CTS No. 8		
	Village	Borla, Chembur		
	Tehsil	Kurla		
	District	Mumbai		
	State	Maharashtra.		
10	Nearest railway station/airport along	Chembur Railway Station. (I	Road Distance : 850 m,	
	with distance in kms.	N-W)		
		Chhatrapati Shivaji Internatio	onal Airport, Mumbai.	
		(Road Distance : 14 km, N-W	V)	
11	Nearest Town, City, District	District Headquarters: 10th	Floor, Administrative	
	Headquarters along with distance in	Building, Opp. Chetna Colle	ge, Bandra (East),	
	km.	Mumbai 51.		
12	Village Panchayats, Zilla Parishad,			
	Municipal Corporation, Local body	Municipal Corporation of Gr	eater Mumbai,	
	(complete postal addresses with	Head Quarter, Mumbai C.S.	Г. 400001	
	telephone nos. to be given)			
13	Name of the applicant	Nav Durga Construction Con	npany	
14	Registered Address	Office No. 601, 6 <sup>th</sup> Floor, Sa	fal Pride, Punjab Wadi,	

		Deonar, Mumbai - 88
15	Address for correspondence:	
	Name	Nav Durga Construction Company
	Designation(Owner/Partner/CEO)	
	Address	Office No. 601, 6th Floor, Safal Pride, Punjab Wadi,
		Deonar, Mumbai - 88
	Pin Code	400088
	E-mail	Navdurga2001@gmail.com
	Telephone No.	25207040/25205929
	Fax No.	25207030
16	Details of Alternative Sites examined,	None
	If any.	
	Location of these sites should be	
	shown on a topo sheet	
17	Interlinked Projects	No
18	Whether separate application of	Not Applicable
	interlinked project has been submitted?	
19	If yes, date of submission	Not Applicable
20	If no, reason	Not Applicable
21	Whether the proposal involves	
	approval/clearance under: if yes,	
	details of the same and their status to	
	be given.	
	• The Forest (Conservation) Act,	
	1980?	No
	• The Wildlife (Protection) Act,	
	1972?	No
	• The C.R.Z. Notification, 1991?	
		No
22	Whether there is any Government	No
	Order/Policy relevant/relating to the	
	site?	
23	Forest land involved (hectares)	Nil
24	Whether there is any litigation pending	No
	against the project and/or land in	
	which the project is propose to be set	
	up?	
	Name of the Court	
	Case No.	
	Orders/directions of the Court, if any	
	and its Relevance with the proposed	
	project.	

\* Capacity corresponding to sectorial activity (such as production capacity for manufacturing, mining lease area and production capacity for mineral production, area of mineral exploration, length for linear transport infrastructure, generation capacity for power generation etc.)

#### (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	Details thereof (with approximate quantities/			
No.	Confirmation	/No	rates, wherever possible) with source of			
			information data			
1.1	Permanent or temporary change in	No	Current	landuse is	Residential. As this is a	
	land use, land cover or topography		redevelop	oment proje	ect, land use remains	
	including increase in intensity of		unchange	d. Land us	e is in conformity with	
	land use (with respect to local land		developm	nent plan. RC	G area provision is as per	
	use plan)		DCR.			
1.2	Clearance of existing land,	Yes	2 Existing	g buildings to	be demolished.	
	vegetation and building?					
1.3	Creation of new land uses:	No	The prop	osed project i	s redevelopment of existing	
			society.			
1.4	Pre-construction investigations	Yes	Geo-Tec	hnical invest	igations have been carried	
	e.g. bore houses, soil testing?		out.			
1.5	Construction Works?	Yes	Construction of 7 Residential wings is proposed.			
			Out of 7 wings 5 wings are under construction to			
			rehabilitate the existing tenements.			
1.6	Démolition Works?	Yes	2 existing	g buildings to	be demolished.	
1.7	Temporary sites used for	No	During the construction phase, housing facilities			
	construction works or housing of		are not p	proposed as m	nost of the skilled/unskilled	
	construction workers?		manpower required will be hired on contract basis.			
1.8	Above ground buildings,	Yes	• The a	bove ground s	structures will comprise of 7	
	structures or earthworks including		reside	ential wings.		
	linear structures, cut and fill or		Sr. No	Wing	Configuration	
	excavations.		1	A1	ST + P +14 Flrs	
			2	B1	ST + P +14 Flrs	
			3	B2	ST + P +14 Flrs	
			4	B3	ST + P +14 Flrs	
			5	B4	ST + P +14 Flrs	
			6	B5	ST + P +14 Flrs	
			7	B6	ST + P +14 Flrs	
			• Excav	ation for four	ndation and laying of cables	

Sr.	Information/Checklist	Yes	Details thereof (with appro	ximate quantities/	
No.	Confirmation	/No	rates, wherever possible) with source of		
			information data		
			and pipelines is involved	•	
1.9	Underground works including	No	No underground works	including mining /	
	mining or tunneling?		Tunneling is required except	ot minor activities like	
			excavation of earth for four	indation, lay down of	
			pipes, underground storage	tank, electric cables	
			etc.		
1.10	Reclamation works?	No	-		
1.11	Dredging?	No	-		
1.12	Offshore structures?	No	-		
1.13	Production and manufacturing	No	Not applicable		
	Process?				
1.14	Facilities for storage of goods or	Yes	Construction Phase:		
	materials?		• Cement will be stored.		
			• Sand will be stacked under	r tarpaulin cover.	
			• Bricks and steel will be la	id in open.	
1.15	Facilities for treatment or disposal	Yes	Construction Phase:		
	of solid waste or liquid effluents?		Construction workers will be provided with		
			separate toilet blocks. Col	lection bins shall be	
			provided separately for bio-degradable and non-		
			biodegradable waste at several locations.		
			<b>Operation Phase:</b>		
			Biodegradable waste	669 Kg/Day	
			Non- Biodegradable waste	446 Kg/Day	
			Treatment & Disposal :		
			• The biodegradable waste to be processed in		
			OWC and manure so ob	otained to be used for	
			gardening.		
			• Non- Biodegradable wast	e to be handed over to	
			recyclers.		
			• Dry sludge to be used as r	nanure for gardening.	
			• Sewage generation: 177 K	LD	
			• STP Capacity: 200 KLD		
			• Treated water will be utilized as follows;		
			Flushing	63 KLD	
			Gardening	15 KLD	
			Surplus water will be dis	charged into MCGM	
			sewer line.		
1.16	Facilities for long term housing of	No	No long-term housing facility	ities proposed as most	
	operational workers?		of the skilled/unskilled man	power required for the	

Sr.	Information/Checklist	Yes	Details thereof (with approximate quantities/
No.	Confirmation	/No	rates, wherever possible) with source of
			information data
			operation activities will be hired from the nearby
			areas.
1.17	New road, rail or sea traffic during construction of operation?	No	The project site is adjacent to 18.3 m wide DP Road which will be utilized during construction and operational phase. New road and rail track is not required.
1.18	New road, rail, air, waterborne or other transport infrastructure including new or altered routes and stations, ports, airports etc.?	No	-
1.19	Closure or diversion of existing transport routes or infrastructure leading to changes in traffic movements?	No	-
1.20	New or diverted transmission lines or pipelines?	No	There will be no diversion of electrical transmission line or pipelines. However, the project involves construction of new internal pipelines for fresh water, recycled water, rain water harvesting, and sewer lines within the project.
1.21	Impoundment, damming, culverting, realignment or other changes to the hydrology of watercourses or aquifers?	No	
1.22	Stream crossings?	No	There is no stream passing through the site. However, local trained nalla is flowing abutting the plot.
1.23	Abstraction or transfers of water from ground or surface waters?	No	Water requirement for the construction phase will be sourced from tankers. Total water requirement of 204 KLD during operation phase will be met from MCGM/ recycled water
1.24	Changes in water bodies or the land surface affecting drainage or run-off	No	Internal drainage network is planned in line with the natural drainage pattern. Change in drainage pattern is not envisaged.
1.25	Transport of personnel or materials for construction, operation or decommissioning?	Yes	The existing road (18.3 m wide DP Road) near the site will be utilized for the transportation of material. Workers required will be fulfilled from nearby area.
1.26	Long-term dismantling or decommissioning or restoration works?	No	Not envisaged.

Sr.	Information/Checklist	Yes	Details thereof (with approximate quantities/
No.	Confirmation	/No	rates, wherever possible) with source of
			information data
1.27	Ongoing activity during	No	Not Applicable.
	decommissioning which could		
	have an impact on the		
	environment?		
1.28	Influx of people to an area in	No	Construction Phase:
	either temporarily or permanently?		Temporary influx of construction workers to the
			site.
			Operation Phase:
			On completion of the project, additional residents
			along with existing tenants will occupy their flats.
			Total population is expected to be 1405 No's on
			permanent basis.
1.29	Introduction of alien species?	No	Indigenous or Natural species will be planted.
1.30	Loss of native species or genetic	No	Not applicable
	diversity?		
1.31	Any other actions?	No	Not applicable

# 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.	Information/Checklist	Yes	Details thereof (with approximate quantities/		
No.	Confirmation	/No	rates, wherever possible) with source of		
			information data		
2.1	Land specially undeveloped or agricultural land (ha)	No	-		
2.2	Water (expected source &	Yes	Construction Phase: It is	s expect	ed to work about
	competing users) unit KLD		50 to 70 labours at site.		
			(Depending upon constru	ction ac	tivity)
			Domestic usage 129 KLD		
			Construction Activity 66 KLD		
			The water demand will be met by water tankers.		
			Operation Phase:		
			Total water demand of t	he proje	ect is expected to
			be 204 KLD;		
			Domestic 126 KLD		LD
			Flushing	63 KL	D
			Gardening	15 KL	D
			And the water requirement will be met by the		
			MCGM/Recycled water from STP.		

Sr.	Information/Checklist	Yes	Details thereof (with approximate quantities/
No.	Confirmation	/No	rates, wherever possible) with source of
			information data
2.3	Minerals (MT)	No	
2.4	Construction material – stone,	Yes	The construction materials, which will be used in
	aggregates, and/soil (expected		the project site, will be procured from local
	source-MT)		dealer.
			Concrete/RMC
			• Cement
			Aggregate
			• Sand
			• Steel
			Plywood
			Concrete hollow blocks/Bricks
2.5	Forests and timber (source-MT)	Yes	Certified Timber will be purchased from nearby
			markets.
2.6	Energy including electricity and	Yes	Operation Phase :
	fuels (source, competing users)		Demand Load-1598KW
	Unit: fuel (MT), energy (KW)		Connected Load- 2479KW
			Source: RELIANCE ENERGY
			2 No's DG Sets of 125 KVA for wing A & 150
			KVA for wing B is proposed for back up during
			power failure. (HSD) will be used as fuel to run
			standby D.G. sets.
2.7	Any other natural resources (use	No	-
	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	Details thereof (with approximate quantities/		
No.	Confirmation	/No	rates, wherever possible) with source of		
			information data		
3.1	Use of substances or materials,	No	Not envisaged		
	which are hazardous (as per				
	MSIHC rules) to human health or				
	the environment (flora, fauna,				
	and water supplies)				
3.2	Changes in occurrence of disease	No	During the entire construction phase adequate		
	or affect disease vectors (e.g.		precaution will be taken to avoid stagnation of		
	insect or water borne diseases)		water giving rise to mosquito breeding. The		

Sr.	Information/Checklist	Yes	Details thereof (with approximate quantities/
No.	Confirmation	/No	rates, wherever possible) with source of
			information data
			waste water generated of 177 KLD will be treated in STP of capacity 200 KLD. Further, storm water network will be well designed to leave no stagnant water pockets, at any point of time. The storm water line will not cross wastewater line. Proper housekeeping practices will be adopted.
3.3	Affect the welfare of people e.g. by changing living conditions?	No	-
3.4	Vulnerable groups of people who could be affected by the project e.g. hospital patients, children, the elderly etc.,	No	
3.5	Any other causes	No	No other causes identified.

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

Sr.	Information/Checklist	Yes	Details thereof (with approx	imate quantities/	
No.	Confirmation	/No	rates, wherever possible)	with source of	
			information data		
4.1	Spoil, overburden or mine wastes	No	Generation of overburden and	mine waste is not	
			applicable, however, spoil is get	nerated during site	
			preparation and other act	ivities involving	
			cutting/excavation. The excava	ted material to be	
			used on the site.		
4.2	Municipal waste (domestic and	Yes	<b>Operation Phase:</b>		
	or commercial wastes)		Biodegradable waste	669 Kg/Day	
			Non- Biodegradable waste	446 Kg/Day	
			Treatment & Disposal :		
			• The biodegradable waste will be processed in		
			OWC.		
			• Non- Biodegradable waste w	ill be handed over	
			to local authority.		
			• Sludge Quantity: 9 Kg.		
			Dry sludge will be used	as manure for	
			gardening.		
4.3	Hazardous wastes (as per	Yes	Used oil from DG set will be	stored carefully at	

Sr.	Information/Checklist	Yes	Details thereof (with approximate quantities/
No.	Confirmation	/No	rates, wherever possible) with source of
			information data
	hazardous waste management		separate location duly marked and will be sold to
	rules)		CPCB authorized recyclers.
4.4	Other industrial process wastes	No	Not Applicable
4.5	Surplus product	No	Not Applicable
4.6	Sewage sludge or other sludge from effluent treatment	Yes	Dewatered sludge from STP will be used as manure for gardening.
4.7	Construction or demolition wastes	Yes	Demolition waste to be generated during demolition of existing buildings/structures. The waste generated to be segregated for reusable material and debris to be sent to designated site as per approved debris management plan by MCGM. Construction phase waste includes empty cement bags, paint containers; scrap metal, wood, broken tiles etc. Material like tiles, wood etc. to be used in the project and other material like empty cement bags & paint containers to be sold to recyclers.
4.8	Redundant machinery or equipment	No	Not envisaged.
4.9	Contaminated soils or other materials	No	Diesel shall be stored/ handled on impervious platform and shall be isolated to avoid contamination of land.
4.10	Agricultural wastes	No	Not Applicable
4.11	Other solid wastes	No	-

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

Sr.	Information/Checklist	Yes	Details thereof (with approximate quantities/
No.	Confirmation	/No	rates, wherever possible) with source of
			information data
5.1	Emissions from combustion of	Yes	• There will be emission from standby DG set.
	fossil fuels from stationary or		DG set shall be compliant to the CPCB norm.
	mobile sources		
5.2	Emission from production	No	There is no production as the proposed project is
	processes		residential complex.

Sr.	Information/Checklist	Yes	Details thereof (with approximate quantities/
No.	Confirmation	/No	rates, wherever possible) with source of
			information data
5.3	Emissions from materials handling including storage or transport	Yes	<ul> <li>Emissions will be generated, while handling and transportation of materials like cement, sand etc. to site, however, it will be temporary in nature.</li> <li>Regular water sprinkling &amp; tarpaulin covers will be provided to control &amp; arrest dust emissions.</li> </ul>
5.4	Emissions from construction activities including plant and equipment	Yes	<ul> <li>The project may cause rise in dust levels during construction phase. Precautions will be taken to reduce dust generation during construction phase.</li> <li>RMC use will minimize the handling of cement, sand and concrete thereby reducing dust generation at site.</li> <li>Tarpaulins will be used to cover trucks carrying debris.</li> <li>Water sprinkling will be done at regular intervals to arrest dust pollution.</li> </ul>
5.5	Dust or odours from handling of materials including construction materials, sewage and waste	Yes	<ul> <li>Construction Phase:</li> <li>Dust is likely to be generated during construction, this will be water sprinkled and Tarpaulin covers will be provided over stored raw material to reduce dust emission.</li> <li>Operation Phase:</li> <li>During Operation Phase, emissions will be generated from Operation of DG sets.</li> <li>Minimal emissions will be generated from movement of vehicles as dust, as the roads will be paved roads.</li> <li>Odour may emit from STP. However, the STP will be working on appropriate technology, so as to minimize odour problems, and it will be strategically located so that no adverse impact is caused.</li> </ul>
5.6	Emissions from incineration of waste	No	Not Applicable.
5.7	Emissions from burning of waste in open air (e.g. slash materials, construction debris)	No	Waste material & debris will be disposed to authorized site.
5.8	Emissions from any other sources	No	-

Sr.	Information/Checklist	Yes	Details thereof (with approximate quantities/	
No.	Confirmation	/No	rates, wherever possible) with source of	
			information data	
6.1	From operation of equipment e.g. engines, ventilation plant, crushers	Yes	<ul> <li>Noise generation from construction equipment's used for drilling, cutting operations.</li> <li>During Operation Phase, Noise will be generated due to operation of DG sets.</li> <li>For control of noise following measures shall be adopted:</li> <li>High noise generating construction activities would be carried out only during day time.</li> <li>Workers working near high noise construction machinery shall be provided with ear muffs/ear plugs.</li> </ul>	
6.2	From industrial or similar processes	No	Not Applicable	
6.3	From construction or demolition	Yes	The construction noise will be localized, intermittent in nature. The construction activities will include the following noise generating activities ; 1.Concreting and mixing. 2.Heavy vehicle movement. 3. Operation of D.G sets. Following precautions shall be taken to control noise pollution : High noise generating construction activities would be carried out only during day time. Workers working near high noise construction machinery shall be supplied with ear muffs/ear plugs.	
6.4	From blasting or piling	No	Not Applicable.	
6.5	From construction or operational traffic	Yes	<i>Construction phase:</i> There will be transport of materials for construction work. Precautions will be taken to reduce the impact of the vehicular movement such as vehicular trips will not be at peak traffic hours. <i>Operation Phase :</i>	

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

Sr.	Information/Checklist	Yes	Details thereof (with approximate quantities/
No.	Confirmation	/No	rates, wherever possible) with source of
			information data
			The vehicular parking will be restricted only in
			the adequate parking area provided, which would
			help in reducing noise pollution due to traffic
			congestion.
6.6	From lighting or cooling systems	No	Not Applicable.
6.7	From any other sources	No	Not Applicable.

## 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.	Information/Checklist	Yes	Details thereof (with approximate quantities/
No.	Confirmation	/No	rates, wherever possible) with source of
			information data
7.1	From handling, storage, use or	No	Not Applicable.
	spillage of hazardous materials		
7.2	From discharge of sewage or	Yes	The total wastewater generated (177 KLD) from
	other effluents to water or the		the buildings will be treated in STP of 200 KLD
	land (expected mode and place of		capacity and the Recycled water (78 KLD) will be
	discharge)		utilized for landscaping and flushing purpose. 81
			KLD excess treated water will be sent to existing
			municipal drain.
7.3	By deposition of pollutants	No	Dust will be generated during construction phase
	emitted to air into the land or into		from earthworks and movement of vehicles.
	water		Appropriate dust control measures, including
			water sprinkling of exposed areas and dust covers
			for trucks, will be provided to minimize any
			impacts. Stack height as per CPCB guidelines
			shall be provided to the DG sets.
7.4	From any other sources	No	Not envisaged
7.5	Is there a risk of long term	No	D.G sets will be used in case of power failure, as
	buildup of pollutants in the		a backup source.
	environment from these sources?		

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

Sr.	Information/Checklist	Yes	Details thereof (with approximate quantities/
No.	Confirmation	/No	rates, wherever possible) with source of
			information data
8.1	From explosions, spillages, fires	No	This is a Residential project, does not involve
	etc from storage, handling, use or		hazardous & explosive material.
	production of hazardous		Fire fighting measures will be provided to reduce
	substances		chances of fire-accidents.
8.2	From any other causes	No	
8.3	Could the project be affected by	Yes	The project falls under seismic zone-III as per
	natural disasters causing		IS1893 (Part-1):2002, care has been taken in
	environmental damage (e.g.		designs to withstand earthquake of maximum
	floods, earthquakes, landslides,		Richter scale in that area. Further it is not flood
	could burst etc)?		prone or landslide prone areas. Hence, no risk due
			to natural 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.	Information/Checklist	Yes	Details thereof (with approximate quantities/
No.	Confirmation	/No	rates, wherever possible) with source of
			information data
9.1	Lead to development of	No	Proposed project is in urbanized area & not a path
	supporting, utilities, ancillary		setting project in the area. Infrastructures like
	development or development		roads, power supply are already established in the
	stimulated by the project		area.
	which could have impact on		
	the environment e.g.:		
	Supporting infrastructure		
	(roads, power supply, waste or		
	waste water treatment, etc)	No	
	Housing development	No	
	Extractive industries	No	
	Supply industries		

Sr. No.	Information/Checklist Confirmation	Yes /No	Details thereof (with approximate quantities/ rates, wherever possible) with source of information data
	Other		
9.2	Lead to after use of the site, which could have an impact on the environment	No	Not Applicable.
9.3	Set a precedent for later developments	No	Not Applicable.
9.4	Have cumulative effects due to proximity to other existing or planned projects with similar effects	No	Not Applicable.

## (iii) Environmental Sensitivity

Sr. No	Areas	Name/ Identity	Aerial distance (with 15-km) Proposed project location boundary
1	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value	No	Not applicable
2	Areas which are important or sensitive of ecological reasons – wetlands, water courses or other water bodies, coastal zone, biospheres, mountains, forests	No	Not applicable
3	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration.	No	Not applicable
4	Inland, coastal, marine or underground waters	No	Not applicable
5	State, national boundaries	No	The project is located within Municipal limits.
6	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas	No	Not Applicable.
7	Defense installations	No	No defense installation in the neighborhood.
8	Densely populated or built-up area	Yes	Residential, Commercial and

Sr.	Areas	Name/ Idontity	Aerial distance (with 15-km) Proposed project location boundary
		Identity	r roposed project location boundary
			Industrial area all around the site.
9	Areas occupied by sensitive man made land uses (hospitals, schools, places of worship, community facilities)	Yes	Schools, hospitals and small temples are observed in 10 km radius. Schools: Chembur Karnataka High School (0.4 km, South side) College: N. G. Acharya & D. K. Marathe College of Arts Science & Commerce (Abutting, East side) Hospital : Joy Hospital (1.7km, East side)
10	Areas containing important, high quality or scarce resources (ground water resource, surface resources, forestry, agriculture, fisheries, tourism, minerals)	No	The project will meet water from MCGM for its use after proper permissions are obtained.
11	Areas already subjected to pollution or environmental damage. (those where existing legal environmental standards are exceeded)	No	All parameters of Air, water and Noise etc. will be maintained within the permissible limit.
12	Areas susceptible to natural hazard which could cause the project to present environmental problems ( <i>earthquakes</i> , <i>subsidence</i> , <i>landslides</i> , <i>erosion</i> , <i>flooding or</i> <i>extreme or adverse climatic conditions</i> )	No	This area is generally plain& come under seismic zone –III according to Indian Standard Seismic zoning map.

Proposed Redevelopment of Shree Saraswati CHS Ltd.

FORM 1

"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 give, if any to the project will be revoked at our risk and cost".

Date:

Place:

FOR NAV DURGA CONSTRUCTION COMPANY

Signature of the Applicant

(Project Proponent/ Authorized Signatory)

Enviro Analysts and Engineers Pvt. Ltd.

#### <u>FORM-1A</u> (Only for Construction Projects listed under Item 8 of Schedule) Checklist of Environmental Impacts

#### 1. Land Environment (Attach panoramic view of the project site & the vicinity)

Requirement	Compliance		
1.1. Will the existing land use get	1. The Proposed project is Redevelopment Project.		
significantly altered from the project	2. The site is under Jurisdiction of MCGM. The project land		
that is not consistent with the	is the residential zone.		
surroundings? (Proposed land use	3. The proposed land	use is in conformation with the	
must conform to the approved Master	approved Municipal N	Aaster Plan/Development Plan.	
Plan/Development Plan of the area.			
Change of land use if any and the	Enclosed maps:		
statutory approval from the competent	1. Google Image. (ANN)	EXURE I)	
authority are submitted). Attach Maps	2. Layout Plan. (ANNE)	KURE II)	
of (i) site location, (ii) surrounding			
features of the proposed site (within			
500 meters) and (iii) the site			
(indicating levels & contours) to			
appropriate scales.	-		
<b>1.2.</b> List out all the major project	Total plot area	11541.28 Sq.m	
requirements in terms of the land area,	FSI Area	24132.81 sqm	
built up area, water consumption,	Non FSI Area	35720.11 sqm	
community facilities parking poods	Total construction area	59852.92 sqm	
etc	Total water requirement	204 KLD	
	Power requirement	Demand Load-1598KW	
	Tower requirement	Connected Load- 2479KW	
	Tenements	281 nos	
	Tenants	1405 nos	
<b>1.3.</b> What are the likely impacts of the	• As this is a redevelopment	t project of existing residential	
proposed activity on the existing	society, landuse remained	unchanged.	
facilities adjacent to the proposed	• Existing trees not affected	by proposed development shall be	
site? (Such as open spaces,	retained. RG provision is a	as per DCR and tree plantation will	
community facilities, details of the	be taken up during constru	action phase.	
existing landuse, disturbance to the	• Impact on air/noise pollut	tion due to proposed project:	
local ecology)	The impact due to the pro-	posed project may be increase in the	
	traffic loads, increase in the no	oise levels during construction	
	activities, and dust emissions e	emanating from various construction	
	activities.		
<b>1.4.</b> Will there be any significant land	There will be no significant	land disturbance due to the project.	
distribution resulting in erosion,	The existing terrain will be ret	tained.This area is generally plain &	
subsidence & instability? (Details of	come under seismic zone -III according to Indian Standard		
soil type, slope analysis, vulnerability	Seismic zoning map.		
to subsidence, seismicity etc may be			
given)			

15 Will the proposal involve	Internal drainage network is planned in	line with the natural
1.5. will the proposal involve	Internal drainage network is plained in	
alteration of natural drainage systems?	drainage pattern. Change in drainage pattern	i is not envisaged.
(Give details on a contour map		
showing the natural drainage near the		
proposed project site)		
<b>1.6.</b> What are the quantities of	Excavation for foundation and laying of c	ables and pipelines is
earthwork involved in the construction	involved.	
activity-cutting, filling, reclamation		
etc. (Give details of the quantities of		
earthwork involved, transport of fill		
materials from outside the site etc)		
<b>1.7.</b> Give details regarding water	<i>Construction Phase:</i> It is expected to work	about 50 to 70 labours
supply, waste handling etc. during the	at site.	
construction period.	(Depending upon construction activity)	
	Domestic usage	129 KLD
	Construction Activity	66 KLD
	The water demand will be met by water tan	kers.
	Construction workers will be provided with	separate toilet blocks.
	Collection bins shall be provided separate	ely for bio-degradable
	and non-biodegradable waste at several loca	tions.
<b>1.8.</b> Will the low lying areas &	No low lying area, no wetlands within 500 r	n around the site.
wetlands get altered? (Provide details		
of how low lying and wetlands are		
getting modified from the proposed		
activity)		
<b>1.9.</b> Whether construction debris &	Construction phase waste includes empty	y cement bags, paint
waste during construction cause health	containers; scrap metal, wood, broken tiles	etc.
hazards? (Give quantities of various	s Material like tiles, wood etc. to be used in the project and other	
types of wastes generated during	material like empty cement bags & paint c	ontainers shall be sold
construction including the	to recyclers.	
construction labour and the means of		

#### 2. Water Environment

Requirement Compliance					
<b>2.1.</b> Give the total quantity of water requirement for	Source: MCGM	/Recycled	d Water		
the proposed project with the break-up of	Total water req	uirement	2	204 KLD	
requirements for various uses. How will the water	Domestic usage	e	1	26 KLD	
requirements met? State the sources & quantities	Flushing		6	53 KLD	
and furnish a water balance statement.	Gardening		1	15 KLD	
	Sewage Generat	ion:			1
	Construction Ph	ase: The	waste wat	ter generated fr	rom
	human settlemen	nt will be	collected	in septic tank	and
	soak pits.				
	Description	Quantity	/ of		
		Sewage	Tre	reatment/	
		generate	d Di	sposal	
	Operational	177 KL	D Se	wage will be	
	Phase		tre	eated in STP	
			(Ca	apacity: 200	
			KI	LD) Treated	
			wa	ater will be used	d
			for	r flushing and	
			gai	rdening.	
			Ex	cess treated	
			wa	ater will be	
			Di	sposed to	
			exi	isting sewer lin	e.
	Water balance	sheet atta	ched here	ewith as annex	cure
	(III)				
<b>2.2.</b> What is the capacity (dependable flow or yield)	For water suppl	ly the pro	oject will	be dependent	on
of the proposed source of water?	MCGM /recycle	ed water.	The sou	urce of water	for
	gardening & f	lushing i	s dependa	able one, as	the
	project will be p	roviding 1	recycled w	vater.	
<b>2.3.</b> What is the quality of water required, in case,	Water will be su	pplied fro	m MCGN	Л	
the supply is not from a municipal source? (Provide					
physical, chemical, biological characteristics with					
class of water quality)					
<b>2.4.</b> How much of the water requirement can be met	Total Recycled	water	78 KLD	will be used	l at
from the recycling of treated wastewater? (Give the	maximum exten	t for ;			_
details of quantities, sources and usage)	Flushing		63 KLD	)	
	Green Area		15 KLD	)	
2.5. Will there be diversion of water from other	No				
users? (Please assess the impacts of the project on	110				
other existing uses and quantities of consumption)					
ouror ourseing asos and quantities of consemption)					

2.6. What is the incremental pollution load from	The sewage generation from the proposed project will
wastewater generated from the proposed activity?	be 177 KLD. STP of total capacity 200 KLD will be
(Give details of the quantities and composition of	provided for treating the waste water.
wastewater generated from the proposed activity)	
<b>2.7.</b> Give details of the water requirements met from	Runoff from terrace shall be stored in storage tank
water harvesting? Furnish details of the facilities	and will be utilized for domestic use after filtration.
created.	The overflow will be diverted to storm water drain.
2.8. What would be the impact of the land use	The run-offs will be channelized properly through
changes occurring due to the proposed project on	storm water drain and will be connected to municipal
the runoff characteristics (Quantitative as well as	drain.
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?	
<b>29</b> What are the impacts of the proposal on the	There will be no ground water extraction. The rain
2.9. What are the impacts of the proposal on the	water collected from roof tone will be collected in
ground water? (will there be tapping of ground	Will tank of 62 sum & used for domestic numerose
water, give the details of ground water table,	K w H tank of 62 cum & used for domestic purpose.
recharging capacity, and approvals obtained from	
competent authority, if any)	
2.10. What precautions/measures are taken to	The run-off during construction phase is expected to
prevent the run-off from construction activities	carry heavy amount of silt and the other material
polluting land and aquifers? (Give details of	from the site, which may result in contamination of
quantities and the measures taken to avoid the	land and the ground water aquifer. The following
adverse impacts)	measures will be adopted especially during rainy
	seasons to effectively combat the situation:
	• Construction material will be stored at the
	earmarked places and will be covered with a
	temporary shed ensuring that no leachates or
	spoilage of land occurs.
	• The construction waste will be stored at the
	earmarked place to ensure that the same is not
	carried away with the storm water.
	• The rain water entering into the pit will be
	screened for the removal of heavy silt and other
	materials
	<ul> <li>Diverting up close weter with turf and not mixing</li> </ul>
	• Diverting up-slope water with turi and not mixing
	mortar in locations that will drain into storm
	water system.
	• Preventing wastewater from brick cutting
	activities and stockpiles entering the storm water
	system.
	• Constructing a fence around the site to trap
	sediment whilst allowing water to flow through.
	• Excavation work will not be carried out during
	monsoon season.
	• Ensuring vehicles stick to the access track to
	prevent mud and dirt being deposited on roads.

	• Cleaning all mud and dirt deposited on roads
	from construction-related activities.
	• Stabilizing a single entry/exit point to ensure
	sediment is not tracked off site-this will also
	increase site durability during wet weather.
<b>2.11.</b> How is the storm water from within the site	The storm water from roof top, paved surfaces and
managed? (State the provisions made to avoid	landscaped surfaces will be properly channelized to
flooding of the area, details of the drainage facilities	the rain water harvesting sumps through storm water
provided along with a site layout indication contour	network. Proper rainwater harvesting structure will be
levels)	design for maximum capture of surface run off. The
	rain water harvested will be used for ground water
	recharge to keep the ground water level consistent.
<b>2.12.</b> Will the deployment of construction labourers	During construction phase the sewage generated will
particularly in the peak period lead to unsanitary	be treated in septic tank and soak pit.
conditions around the project site (Justify with	Hence it will not lead to unsanitary conditions around
proper explanation)	the project site.
	• Proper sanitation facilities will be provided at site
	for construction labours and staff.
	• There will be no stagnant water at site, as the runoff
	will be systematically drained into the storm water
	line.
	• Temporary toilets with septic tank and soak pit will
	be provided considering peak labour force.
	• Composting pit will be provided to take care of
	food wastes.
	• Adequate housekeeping facilities and practices will
	be maintained.
2.13. What on-site facilities are provided for the	The quantity of wastewater (177 KLD) generated
collection, treatment & safe disposal of sewage?	from the project will be treated in STP (capacity 200
(Give details of the quantities of wastewater	KLD) and recycled for gardening and flushing
generation, treatment capacities with technology &	purpose (78 KLD ). 81 KLD water will be released
facilities for recycling and disposal)	into sewer line.
<b>2.14.</b> Give details of dual plumbing system if treated	There will be separate pipelines for the supply of
wastewater is used for flushing of toilets or any	treated water from STP and the fresh water. Treated
other use.	water will be used for the flushing purposes and
	landscaping purposes, while the fresh water will be
	used for domestic consumption.

#### 3. Vegetation

Requirement	Compliance	
<b>3.1.</b> Is there any threat of the project to the	The project site is surrounded by developed roads. The	
biodiversity? (Give a description of the local	local ecosystem and biodiversity will not be hampered	
ecosystem with its unique features, if any)	because of this development.	
<b>3.2.</b> Will the construction involve extensive	RG provision is as per DCR.	
clearing or modification of vegetation? (Provide	Endemic or Native trees will be	e planted.
a detailed account of the trees & vegetation	Total Trees on Site	139
affected by the project)	Trees to be cut	83
	Trees to be retained	56
	New Trees to be Planted	166
	Total No of trees	222
<b>3.3.</b> 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)	<ul> <li>Due care will be taken to prefeatures:</li> <li>Tree plantation will be a features such as topsoil attenuation and avoidi leachates.</li> <li>No heavy work will be a during the night time.</li> <li>The excavated soil will places protected from c polluting the existing features surface leveling and for areas.</li> <li>Piling will be done so as on the existing structures in</li> <li>In the operational phase, a landscape area so as to reju features.</li> </ul>	rotect the important site lone to protect the site erosion, ground water ng contamination by done before 10 am and be stored at earmarked ontamination and from ures and will be used for creation of landscaped to minimize the impacts in the nearby areas. total of $m^2$ will be under avenue the important site

#### 4. Fauna

Requirement	Compliance
4.1. Is there likely to be any displacement of	There will be no displacement of fauna - both terrestrial
fauna - both terrestrial and aquatic or creation	and aquatic and there will be no barrier on their
of barriers for their movement? Provide the	movement. There is no endangered species found except
details.	the local species.
4.2. Any direct or indirect impacts on the	There will be no impact on the avifauna (birds) of the
avifauna of the area? Provide details.	area. The site was not found to be
	nesting/breeding/feeding ground for any significant bird
	species. The trees planted may attract birds in the future
	creating a positive impact on the avifauna.
4.3. Prescribe measures such as corridors, fish	The project is located on landmass and there is no need to
ladders etc. to mitigate adverse impacts on	provide corridors and fish ladders etc.
fauna.	

#### 5. Air Environment

Requirement	Compliance
5.1. Will the project increase atmospheric	The proposed project activity will not increase any
concentration of gases & result in heat islands?	atmospheric concentration of gases and result in heat
(Give details of background air quality levels	islands. Air emissions will increase due to vehicular
with predicted values based on dispersion	movements.
models taking into account the increased traffic	
generation as a result of the proposed	
constructions)	
<b>5.2.</b> What are the impacts on generation of dust,	There will be burning of fuel through D.G. sets, traffic
smoke, odorous fumes or other hazardous	movements, operation of construction machines /
gases? Give details in relation to all the	equipment and domestic activities at site. Construction
meteorological parameters.	activities will lead to dust generation, emission of NO <sub>2</sub> ,
	$SO_2$ and PM.
	The impacts on the ambient air quality during
	construction phase will be temporarily and reversible in
	nature (for short duration) and will be restricted to only a
	small area. During operation phase, D.G. set will be
	having adequate stack height, there will be development
	of green-area and maintenance of vehicles, all these
	efforts will reduce the impact.
<b>5.3.</b> Will the proposal create shortage of parking	The proposed project will provide sufficient parking to its
space for vehicles? Furnish details of the present	occupants and visitors.
level of transport infrastructure and measures	Adequate measures have been proposed to manage the
proposed for improvement including the traffic	traffic within and outside the site. A main entry point will
management at the entry and exit to the project	be provided. The vehicular traffic movement within the
site.	facility will be such that it will not disturb the landscaped
	areas and organized open spaces. Entry and exit will be
	provided to ensure that no hindrance is caused to the site
	traffic. Roads of sufficient width will be provided.

	Necessary arrangements will be made for smooth entry
	and exit of vehicles.
	Parking required & Proposed: 367 No's
5.4. Provide details of the movement patterns	Adequate provisions have been made in the internal
with internal roads, bicycle tracks, pedestrian	roads, for smooth vehicles entry and exit and as well as
pathways, footpaths etc., with areas under each	pedestrian movements.
category.	
<b>5.5.</b> Will there be significant increase in traffic	As the entry and exit will be made safe and smooth, there
noise & vibrations? Give details of the sources	will be no noise and vibrations due to increased traffic.
and the measures proposed for mitigation of the	During construction activity vehicular movement and
above.	vehicular movement will be the major source. During
	Operational Phase D.G sets, machines and Vehicular
	movement will be the major source. The mitigation is
	proposed through a detailed EMP that has been planned
	to reduce the noise and vibration impacts during the
	construction phase.
	The project proponents have proposed to provide well
	organized parking arrangement, which would help in
	reducing noise levels due to vehicular movement in the
	parking area.
5.6. What will be the impact of D.G. sets &	D.G. set will create no noise due to vibration as sound
other equipment on noise levels & vibration in	proof canopy will be provided. Acoustic enclosure will
& ambient air quality around the project site?	be provided with proper stack height.
Provide details.	

#### 6. Aesthetics

Requirement	Compliance
<b>6.1.</b> Will the proposed constructions in any way	The proposed construction activity will not result in the
result in the obstruction of a view, scenic	obstructions of a view, scenic amenity or landscapes. Better
amenity or landscapes? Are these considerations	designed structure and well planned landscape will add up
taken into account by the proponents?	aesthetics of that zone.
<b>6.2.</b> Will there be any adverse impacts from new	There will be negligible adverse impact due to new
constructions on the existing structures? What	constructions on the existing structures.
are the considerations taken into account?	Due care will be taken to minimize the impacts on
	surroundings:
	• Drilling machines used for piling activities will be of rig
	type which will help to avoid hammering clutter and
	knocking noises.
	• The construction site will be covered from all 4 sides
	with tin sheets to prevent dust emissions and other
	pollutants to the surrounding environment.
	• The setbacks are sufficient to take care of the depth to
	which the structure goes without the fear of soil collapse
	in addition to piling.
<b>6.3.</b> Whether there are any local considerations	The design of the project is influenced by the regulation set

of urban form & urban design influencing the	out by local authority and modern needs of the society.
design criteria? They may be explicitly spelt	
out.	
<b>6.4.</b> Are there any anthropological or	There are no anthropological or archaeological sites or
archaeological sites or artefacts nearby? State if	artefacts nearby proposed site.
any other significant features in the vicinity of	
the proposed site have been considered.	

#### 7. Socio-Economic Aspects

Requirement	Compliance
7.1. Will the proposal result in any changes to	There will be no change to the demographic structure of
the demographic structure of local population?	local population due to the proposed activity. The
Provide the details.	expected population will be 1405 No's. The proposed
	project shall provide value addition to the existing
	infrastructure, as due to development of this Project
	facility such as public transport, water supply, telex
	communications, power lines, road maintenance etc. shall
	be upgraded in and around the project premises. The
	project is situated in the residential zone and hence there
	will be no change in demographic structure.
7.2. Give details of the existing social	Proposed project is located within the residential zone of
infrastructure around the proposed project.	high urban infrastructure region. It is a well-developed
	area, having all modern amenities. Civil structures,
	School, Colleges, Hospitals, Recreation facilities,
	Markets, etc. are available in the area to a reasonable
	degree.
7.3. Will the project cause adverse effects of	The proposed project will not cause any adverse effects
ocal communities, disturbance to sacred sites of	on local communities, disturbance to sacred sites or other
proposed?	cultural values.
8 Building Materials	
Requirement	Compliance
<b>8.1</b> . May involve the use of building materials	• The basic engineering materials like aggregate
with high-embodies energy Are the	cement sand and bricks/blocks will be purchased
construction materials produced with energy	locally However finishing materials will be
efficient processes? (Give details of energy	purchased energy conservation measures in the
conservation measures in the selection of	selection of building materials and their energy
building materials and their energy efficiency)	efficiency.
	• Cement shall be used which already contains Fly ash.
	Construction materials from nearest source shall be
	chosen to minimize energy consumption during their
	transportation.
8.2. Transport and handling of materials	During construction phase, sources of noise pollution will
during construction may result in pollution,	be due to operation of
noise & public nuisance. What measures are	machinery like compressors, compactors, concrete plant,
taken to minimize the impacts?	cranes etc. as well as

	Transportation vehicles. This will cause nuisance to the
	occupants of the nearby area.
	The project proponents have agreed to take precautions to
	control noise pollution as mentioned under:
	• Use of equipment generating noise of not greater than
	90 dB (A).
	• High noise generating construction activities would
	be carried out only during day time and in a
	staggered fashion.
	• Installation, use and maintenance of mufflers on
	equipment.
	• Workers working near high noise construction
	machinery would be supplied with ear muffs/ear
	plugs.
	To reduce air emissions:
	• All vehicles will be having proper PUC certificates.
	• Roads will be paved in advance to reduce dust
	emissions.
	• Unpaved roads will be kept wet.
	• Stock piles will be secured by covering with plastic.
	• Construction machinery will be regularly maintained.
8.3. Are recycled materials used in roads and	Yes. Inert demolished material will be used in road filling
structures? State the extent of savings	to maximum extent. Centring material will be reused
achieved?	from other projects of the same contractor
<b>8.4.</b> Give details of the methods of collection,	The solid waste management facility will be proposed as
segregation & disposal of the garbage	per MSW rules. Garbage will be collected manually from
generated during the operation phases of the	each of the building in the garbage collection room. The
project.	garbage collected from area will be segregated into wet
	and dry garbage.
	Operation Phase:
	Biodegradable waste 669 Kg/Day
	Non- Biodegradable 446 Kg/Day
	waste
	I reatment & Disposal :
	• The biodegradable waste will be processed in OWC.
	• Non- Biodegradable waste will be handed over to
	Local authority.
	Sludge Quantity: 9 Kg
	Dry sewage sludge will be used as manure for gardening
	Dry sewage shuge will be used as manure for gardening.

	<b>a</b>	
Requirement	Compliance	
9.1. Give details of the power requirements,	Power requirement:	
source of supply, backup source etc. What is	Demand Load-1598KW	
the energy consumption assumed per square	Connected Load- 2479KW	
foot of build-up area? How have you tried to	Source: MSEDCL	
minimize energy consumption?	2 No's DG Sets of 125 KVA for wing A & 150	
	KVA for wing B is proposed for back up during	
	nower failure (HSD) will be used as fuel to run	
	standhy D.G. sate	
	standby D.O. sets.	
	To minimize the energy consumption, solar energy will	
	be utilized as much as possible.	
	Energy conservation measures :	
	1. Purchase of energy efficient appliance.	
	2. Adjusting the settings and illumination levels to ensure	
	minimum energy used for	
	Desired comfort levels.	
	3. Installing programmable on/ off timers and sensors for	
	low occupancy areas	
	4. Use of solar energy for street light.	
	5. Use of compact fluorescent lamps and low voltage	
	lighting.	
	6. Use of common lights with CFL & LED luminary in	
	landscaping area.	
9.2. What type of, and capacity of, power	2 No's DG Sets of 125 KVA for wing A & 150	
back-up to you plan to provide?	KVA for wing B is proposed for back up during	
	power failure. (HSD) will be used as fuel to run	
	standby D.G. sets.	
<b>9.3.</b> What are the characteristics of the glass	Glass used for buildings and residences will be plain	
you plan to use? Provide specifications of its	clear glass.	
characteristics related to both short wave and	6	
long wave radiation?		
<b>9.4.</b> What passive solar architectural features	Building orientation, wall to window ratio and thermal	
are being used in the building? Illustrate the	properties of envelop are being looked into reduce solar	
applications made in the proposed project.	heat gain and provide natural light and adequate	
	ventilation to reduce humidity.	
<b>9.5</b> . Does the layout of streets and buildings	Yes Solar lights will be provided for common amenities	
maximize the notential for solar energy	like Street lighting Garden lighting Parking & Staircase	
devices? Have you considered the use of street	Areas	
lighting emergency lighting and solar hot	11003.	
water systems for use in the building		
complex?		
<b>0.6</b> Is shading affectively used to reduce	Depending upon the site condition location offerts will	
cooling/heating loads? What principles have	be made by the Architects to maximize the sheding of	
been used to maximize the shading of W-line	wells on the Fast and West on 4 the Deaf	
been used to maximize the shading of walls	wans on the East and west and the Kool.	

#### 9. Energy Conservation

on the East and West and the Roof? How		
much energy saving has been effected?		
9.7. Do the structures use energy-efficient	All the electrical installations and structures will confirm	
space conditioning, lighting and mechanical	to energy efficiency norms.	
systems? Provide technical details. Provide		
details of the transformers and motor		
efficiencies, lighting intensity and air-		
conditioning load assumptions? Are you using		
CFC and HCFC free chillers? Provide		
specifications.		
<b>9.8.</b> What are the likely effects of the building	There will not be any effect of the building activity in	
activity in altering the microclimates? Provide	altering the microclimates particularly creation of heat	
a self assessment on the likely impacts of the	islands & inversion effects.	
proposed construction on creation of heat		
islands & inversion effects?		
9.9. What are the thermal characteristics of the	Roof will be of high quality concrete as per the NBC	
building envelope? (a) roof; (b) external walls;	rules 2005.	
and (c) Fenestration? Give details of the		
material used and the U-values or the R-values		
of the individual components.		
9.10. What precautions & safety measures are	Standard fire safety norms as prescribed by chief fire	
proposed against fire hazards? Furnish details	officers will be followed as per the government norms.	
of emergency plans.	To the extent possible fire proof materials will be used in	
	structures. Refuse area will be provided as per norms.	
9.11. If you are using glass as wall material,	No glass will be used for walls.	
provide details and specifications including		
emissivity and thermal characteristics.		
9.12. What is the rate of air infiltration into the	Proper ventilation will be providing in rooms. Air	
building? Provide details of how you are	changes/nour is as per Bureau of Indian Standards	
mitigating the effects of infiltration.	(National Building Code, 2005).	
<b>9.13.</b> To what extent the non-conventional	Every effort will be made to generate and use non-	
energy technologies are utilised in the overall	conventional energy and renewable energy, depending	
energy consumption? Provide details of the	upon the circumstances and chances of generating	
renewable energy technologies used.	energy.	

#### ENVIRONMENT MANAGEMENT PLAN

The Environment Management Plan would consist of all mitigation measures for each item wise 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.

The Environmental Management Plan (EMP) is a site specific plan developed to ensure that the project is implemented in an environmentally sustainable manner where all stakeholders including the project proponents, contractors and subcontractors, including consultants, understand the potential environmental risks arising from the proposed project and take appropriate actions to properly manage that risk. Adequate environmental management measures need to be incorporated during the entire planning, construction and operation stages of the project to minimize any adverse environmental impact and assure sustainable development of the area.

Sr. No.	Method Adopted	Setting-Up Cost( In Lakhs)	Annual Maintenance & Operational Cost ( In Lakhs)
1.	RWH	28	1.4
2.	MSW	10	3.0
3.	STP	43	11
5.	Energy Efficient Equipment (Solar)	29	3
6.	Landscaping	60	10
	Total Cost	170	28.4

## Annexure I (Google Image)



LAT - 19°03'27.45"N, LON - 72°54'23.82"E

## Annexure II (Layout Plan)

## LAYOUT PLAN



## Annexure III (Water balance chart)

#### Non Monsoon



## Annexure III (Water balance chart)

#### Monsoon



	Site	Name	Distance from the proposed project
Transportation infrastructure	Nearest Road	18.30 wide DP Road	Abutting
	Nearest Highway	NH 3	1.13Km (West)
	Nearest Railway Station	Chembur Railway Station (Harbour Line)	770Mts (North west)
	Nearest Bus Station	N.G. Acharya College Bus stop	100 meter (North)
Health infrastructure	Nearest Hospital	Sion Hospital	5.5 Km (South west)
Education infrastructure	Nearest School	AFAC School	200meter. (South)
	Nearest College	N.G. Acharya & D.K. Marathe College	100 meter (North)

#### Annexure IV (Surrounding Infrastructure / Road network from the proposed site)