

PART I

PROJECT DETAILS

Name & Location	:	<p>“Township Development Development”, New 86 [Old Survey Nos. 78/1,80,83,81/1/A,81/1/B,81/2,82/1,82/2,82/3, 86, 107/1(part), 107/2, 110/1A(Part), 110/2(Part), 110/1/B, 111/1A/1, 111/1A/2, 111/1B, 111/2, 112/1(Part), 114/1(Part), 113/1A/1, 114/2, 113/1A/1B/1, 113/1A/1B, 113/2, 113/1A/2, 113/1B, 115/1(Part), 117,118/1,120/3,121,122,123] 102/1, 85/1] New 74/B[Old Survey Nos.74/2,74/9/2(Part),74/3],77/1 (Part),77/2, 78/1 (Part),80/1 (Part),83 (Part), 83/2(Part), 90/7/1 ,90/9, 91/1(Part), 91/2, 91/3, 91/4(Part) ,91/5,91/6,91/7(Part), 91/8, 92/1A, 92/2A(Part), 92/3, 92/4, 92/5, 92/6(Part), 92/7,92/8(Part), 93, 95, 96/1/1(Part), 96/1/2(Part), 96/1/3, 96/2/1, 96/2/2(Part), 96/3(Part), 96/4(Part), 96/5/2(Part), 98(part), 98/2, 100/1/1, 100/1/2, 100/2, 101(Part), 101(Part),101(Part),112/1(Part),112/2,114/1(Part),119,120/1,120/2,120/4/1,120/4/2, 124/1/1,124/1/2,124/2,125/1,126/1 (Part),126/2, 127/1/1, 127/1/2 (Part),24/3,24/5,25/1, 25/2,26/1,26/2,26/4,26/5, 26/6, 27/1, 27/3(Part), 69/1, 69/2/1, 69/2/2, 69/2/3, 69/2/4,69/2/5,69/2/6, 69/2/7, 69/2/8,71 (Part), 74/7 (Part), 74/8, 74/9/1 (Part), 99/1/2 Part, 112/1 Part, 113/1A/1B/1B Part, 90/10 Part, 131/8 Part, 131/9,131/10, 112/1 Part, 103/2, 102/2 Part, 126/2/1, 73/9, 87/2], at Village - Jambhe, Nere and Marunji, Taluka: Mulshi, District: Pune</p>
Total no. of workers to be employed during the construction phase.	:	700 Nos.
Total Project cost	:	Rs. 6680.93/- Crores
Project infrastructure	:	Total Plot Area (sq. m.)- 581344.18 Sq.m Proposed Built-up Area (FSI &Non-FSI)-18,90,091. 83Sq.m
Water Requirement and Sources	:	Total Water Requirement: 8112KLD
Sewage generated-Operational Phase	:	51 STPs with 11890 KLD capacity
Power	:	Demanded load: 44834.42 KW

Solid waste from: Garbage:	:	Total Solid Waste generation- Dry- 19901 kg/day Wet- 25788 Kg/Day
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PART II

ENVIRONMENTAL MANAGEMENT PLAN

Environmental Component	Phase	Project Activity	Potential Impacts	Mitigation Measures
Air Quality	Construction Phase	Site Clearance / Operation	Dust Pollution	Wetting of area before clearing. Erecting barricade around construction site.
		Heavy vehicle Maintenance / operation	Air Pollution Dust generation.	Trucks carrying earth, sand or stone shall be covered with tarpaulin to avoid spilling. All vehicles should have valid PUC.
		Construction of Structures and earth work	Dust due to cutting and filling.	Water should be sprayed while construction activity is going on. All vehicles delivering materials should be properly covered. RMC will be used through out the construction.
	Operation Phase	Traffic plying on road	Increase in Air Pollutant Concentration in some locations.	Smooth flow of traffic, Regulation of air pollution by legislation and public awareness.
		DG Set operation	Air Pollution	DG Sets adhering to CPCB Norms. Proper maintenance

Environmental Component	Phase	Project Activity	Potential Impacts	Mitigation Measures
				of DG Sets.
Noise Quality	Construction Phase	Heavy vehicle maintenance / operation	Increased vehicular noise	The vehicles use for construction activity should confirm to emission norms of CPCB.
		Construction of structures and earth work	Noise from Vibrators, Concrete Batching Plants etc.	Employing electrically operated construction equipment. Providing ear plugs for workers.
	Operation Phase	Vehicular traffic	Increased vehicular noise due to increased traffic	Ensuring smooth flow of traffic. Parking provided as per norms. Provision of trees along the periphery of the boundary wall shall act as noise buffer.
		DG Set operation	Increased noise level	DG Sets adhering to CPCB Norms. Proper maintenance of DG Sets.
Water	Construction Phase	Construction Staff water requirement	Strain on the water supply in the vicinity	Drinking water shall be purchased from market by tankers.
	Operation Phase	Building users water requirement	Strain on the water supply in the vicinity.	By irrigation dept or by recycled water from STP.
Soil	Construction Phase	Storage of petroleum and other chemicals	Pollution due to spills and mixing of construction materials	Storage of all petroleum products must be located on impervious layers viz. concrete. The surface runoff of the storage site must pass through oil / grease traps.
		Construction Debris and Earth	Pollution due to mixing of concrete	Concrete and such debris should be

Environmental Component	Phase	Project Activity	Potential Impacts	Mitigation Measures
		material	with soil	stored in a container or separate location within the site and finally sent to disposal site.
		Transportation of hazardous material	Hazardous chemicals from accidental spills polluting surface water body nearby.	Transpiration of hazardous material and storage as per safety rules. Regulation on load carried and speed.
		Residual Paints/Solvents / Bituminous materials	Contamination of soil	Shall be given to authorized recyclers /site. Bituminous materials /any other chemicals shall not be allowed to leach into the soil.
		Heavy vehicle maintenance / operation	Oil Spillage	Most of the machines operating on the site will be electricity operated. Oil trays will be kept below all potential oil spillage points and oil shall be collected in trays and given to authorized recyclers/sites.
	Operation Phase	Operation	Soil contamination due to surface run off/Oil & grease dripping form vehicles	Oil & grease traps shall be installed on sewers and S.W.D. discharge points in to Municipal sewers and drains. The sludge collected from Oil separators should be disposed

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				authorized dumping sites.
		Solid Waste generation	Improper disposal of plastic waste/kitchen waste and sludge of treatment plants can cause environmental hazards.	All the solid waste generated should be separated at the source. Dry garbage will be handed over corporation. Wet garbage shall be treated by biosynthetic composting and shall be used as manure. The sludge generated by the Sewage Treatment Plant can be used for Gardening.
		Transpiration of hazardous material	Hazardous chemicals from accidental spill	Regulation on load carried and speed. Barriers to be erected near sensitive locations.
Even after taking precautions if soil is found to be contaminated, it shall be removed and disposed off to authorized site				
Ecology	Construction Phase	Construction of structures and earth work.	Migration of fauna due to construction	All the machines operating on the site will be electricity operated. Machines and vehicles should be maintained well to keep their noise at a minimum
		Transportation of hazardous materials	Loss of vegetation from chemical spills	Regulation on load carried and speed.
	Operation	Operation	Increase exposure	Enactment and

Environmental Component	Phase	Project Activity	Potential Impacts	Mitigation Measures
	Phase		to anthropogenic activities.	enforcement of laws regulating human intrusions.

PART –III

ALLOCATION MADE FOR ENVIRON-MENTAL MANAGEMENT PLANS

We are submitting herewith funds allocated for Environmental Management Plan (EMP).

During Construction phase:

Capital Cost: 15.35 Cr

During operational Phase:

Total set up Cost: 314 Cr

O & M coat : 55.5 Cr/annum