

FORM-1

(I) Basic Information

Sr. No.	Item	Details
1	Name of the Project	Proposed development on 10/1, 10/2B,10/4B, 19/25 (pt.), 19/27 (pt.), 19/33, 19/34 (pt.), 19/ 39(pt), 19/40, 19/41 (pt), 19/44, 79/1A,79/1B,79/2A,79/2B, 79/3 TO 79/9 , 80/1, 80/2, 82(pt.), 83/1,83/2A,83/2B,83/3, 83/4A,83/4B,83/5, 83/6(pt), 83/7(pt.), 83/8(pt), 83/9(pt.), 83/10(pt.), 86/1(pt.) to 86/3(pt.), 87/1(pt.), 87/2 to 87/6, 88/11(pt.), 88/12(pt.), 88/14, 88/15, 89/2 (pt.), 89/3 to 89/6, 89/7 (pt.), 89/8, 89/9(pt.), 90/1, 90/2, 90/3A TO 90/3F, 90/4 TO 90/9,90/10A,90/10B, 90/11 TO 90/13 , 92/8B, 92/9A, 92/17A, 92/19A, 92/20 TO 92/22 , 93/1 TO 93/4 , 94/1,94/2 , 95/1 TO 95/3, 95/5(pt.), 95/6, 95/7A, 95/7B, 95/7C, 95/8(pt.) 95/9, 95/10, 95/11A, 95/11B, 95/12 TO 95/16, 95/17A, 95/17B, 95/17C, 95/18, 95/19 (pt.), 95/20 (pt.), 95/21A to 95/21C, 95/22, 95/23A(pt.), 95/21C, 95/24, 95/25 (pt.), 95/26A to 95/26C, 95/27(pt.), 95/28 (pt.), 95/33 (pt.), 95/39 (pt.), 96/1,96/2,96/3A(pt.), 96/3B(pt.), ,96/4, 97/1 to 97/4, 97/5(pt.), 97/6A TO 97/6C, 97/7A (pt.), 97/7B (pt.), 97/9 (pt.), 98/1 (pt.), 98/3(pt.), 98/4 (pt.), 98/8B(pt.), 99/7(pt.), 99/8, 99/15 (pt.), 99/16 (pt.), 99/8, 100/3A (pt.), 1006 (pt.), 100/7(pt.), 100/8A, 100/8B, 100/9, 100/10, 100/13 (pt.), 100/14B, 100/17C, 100/18 (pt.), 100/19A (pt.), 100/21, 100/22A, 101/2C (pt.), 101/2C (pt.), 101/3B (pt.), 104/16 of Village Balkum, Thane.
2	S. No. in the Schedule	8 (b)
	Proposed capacity/area /length/tonnage to be handled/command area/lease area/ number of wells to be drilled	- Total plot area: 4, 37,961.00 Sq.mt. - Plot area considered for expansion at present: 2,43,787.42 sq.mt. - FSI area: 6,36,007.91 Sq.mt. - Non FSI Area: 8,49,919.415 Sq.mt. - Construction Area: 14,85,927.16 Sq.mt
4	New/Expansion/Modernization	Housing project - Expansion
5	Existing Capacity/Area etc.	Not applicable
6	Category of Project i.e. 'A' or 'B'	'B'
7	Does it attract the general condition? If Yes, Please specify	No
8	Does it attract the specific condition? If yes, Please specify	No
9	Location	
	Plot/Survey/Khasra No.	S. No. 10/1, 10/2B,10/4B, 19/25 (pt.), 19/27 (pt.), 19/33, 19/34 (pt.), 19/ 39(pt), 19/40, 19/41 (pt), 19/44, 79/1A,79/1B,79/2A,79/2B, 79/3 TO 79/9 , 80/1, 80/2, 82(pt.), 83/1,83/2A,83/2B,83/3, 83/4A,83/4B,83/5, 83/6(pt), 83/7(pt.), 83/8(pt), 83/9(pt.), 83/10(pt.), 86/1(pt.) to 86/3(pt.), 87/1(pt.), 87/2 to 87/6, 88/11(pt.), 88/12(pt.), 88/14, 88/15, 89/2 (pt.), 89/3

		to 89/6, 89/7 (pt.), 89/8, 89/9(pt.), 90/1, 90/2, 90/3A TO 90/3F, 90/4 TO 90/9,90/10A,90/10B, 90/11 TO 90/13 , 92/8B, 92/9A, 92/17A, 92/19A, 92/20 TO 92/22 , 93/1 TO 93/4 , 94/1,94/2 , 95/1 TO 95/3, 95/5(pt.), 95/6, 95/7A, 95/7B, 95/7C, 95/8(pt.) 95/9, 95/10, 95/11A, 95/11B, 95/12 TO 95/16, 95/17A, 95/17B, 95/17C, 95/18, 95/19 (pt.), 95/20 (pt.), 95/21A to 95/21C, 95/22, 95/23A(pt.), 95/21C, 95/24, 95/25 (pt.), 95/26A to 95/26C, 95/27(pt.), 95/28 (pt.), 95/33 (pt.), 95/39 (pt.), 96/1,96/2,96/3A(pt.), 96/3B(pt.), ,96/4, 97/1 to 97/4, 97/5(pt.), 97/6A TO 97/6C, 97/7A (pt.), 97/7B (pt.), 97/9 (pt.), 98/1 (pt.), 98/3(pt.), 98/4 (pt.), 98/8B(pt.), 99/7(pt.), 99/8, 99/15 (pt.), 99/16 (pt.), 99/8, 100/3A (pt.), 1006 (pt.), 100/7(pt.), 100/8A, 100/8B, 100/9, 100/10, 100/13 (pt.), 100/14B, 100/17C, 100/18 (pt.), 100/19A (pt.), 100/21, 100/22A, 101/2C (pt.), 101/2C (pt.), 101/3B (pt.), 104/16 of Village Balkum, Thane.
	Village	Balkum
	Tehsil	-
	District	Thane
	State	Maharashtra
10	Nearest railway station/airport along with distance in kms.	Thane Railway Station
11	Nearest Town, City, District Headquarters along with distance in kms.	The proposal is within Thane city
12	Village Panchayats, Zilla Parishad, Municipal Corporation, Local body (complete postal addresses with telephone nos. to be given)	Thane Municipal Corporation (TMC)
13	Name of the applicant	Mr. Suresh Mehta
14	Registered Address	101, Kalpataru Synergy, Opp. Grand Hyatt, Santacruz (E), Mumbai 400 055.
15	Address for Correspondence:	As above
	Name	Mr. Suresh Mehta
	Designation(Owner/Partner/CEO)	101, Kalpataru Synergy, Opp. Grand Hyatt, Santacruz (E), Mumbai 400 055.
	Address	
	Pin Code	
	E-mail	Arepl@kalpataru.com
	Telephone No.	022 30645000
	Fax No.	022 30643131
16	Details of Alternative Sites examined, If any. Location of these sites should be shown on a topo sheet	NA.
17	Interlinked Projects	No

18	Whether separate application of interlinked project has been submitted?	Not applicable
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. (a) The Forest (Conservation) Act, 1980? (b) The Wildlife (Protection) Act, 1972? (c) The C.R.Z. Notification, 1991?	NA NA Demarcation obtained. Maharashtra Coastal Zone Authority has confirmed that the land admeasuring 2196.78 sq. m. is affected by CRZ. The said land is deducted from the plot. No development of any nature is proposed on that land.
22	Whether there is any Government Order/Policy relevant/relating to the site?	NA
23	Forest land involved (hectares)	Nil
24	Whether there is any litigation 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.	No

** Capacity corresponding to sectoral 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

- 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. No.	Information/Checklist Confirmation	Yes/No	Details thereof (with approximate quantities/ rates, wherever possible) with source of information data
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 use	Yes	As per the land use plan, the land is under Industrial Zone. Change of user from Industrial to Residential user has been accorded by the Planning Authority.

Sr. No.	Information/Checklist Confirmation	Yes/No	Details thereof (with approximate quantities/ rates, wherever possible) with source of information data												
	plan)														
1.2	Clearance of existing land, vegetation and building?	Yes	Trees which are felling under proposed building line shall be cut as per tree NOC Partially clearance of trees and structures have been done as per Previous EC and Tree NoCs for Phase1 & phase2.												
1.3	Creation of new land uses	Yes	Residential user is proposed to be created on the land which was previously an industrial land.												
1.4	Pre-construction investigations e.g. bore houses, soil testing?	Yes	Detailed feasibility studies have been carried out. Geotechnical Report is prepared for the proposed project.												
1.5	Construction works?	Yes	It is a pre-dominantly residential development with mixed users.												
1.6	Démolition Works?	Yes	There shall be demolition work involved at site												
1.7	Temporary sites used for construction works or housing of construction workers?	Yes	A small portion of plot area shall be reserved for material storage and temporary housing of laborers.												
1.8	Above ground buildings, structures or earthworks including linear structures, cut and fill or excavations	Yes	The above ground structure shall comprise of total 44 No. of towers, which will include pre-dominantly Residential buildings.												
1.9	Underground works including mining or tunneling?	No	No including mining or tunnelling is carried out.												
1.10	Reclamation works?	No	Not Applicable												
1.11	Dredging?	No	Not Applicable												
1.12	Offshore structures?	No	Not Applicable												
1.13	Production and manufacturing Process?	No	Not Applicable												
1.14	Facilities for storage of goods or materials?	Yes	Temporary sheds shall be constructed for the storage of construction materials during construction phase as per the material requirement.												
1.15	Facilities for treatment or disposal of solid waste or liquid effluents?	Yes	<u>SOLID WASTE:</u> Total 20.11 TPD solid waste is expected to be generated in the project. Bio – degradable waste of 11.35 TPD is expected to be treated in OWC/equivalent system for compost. Remaining solid waste consisting of Non – Biodegradable waste: 8.76 TPD is proposed to be handed over to Local Vendors/ Recyclers. <table border="1"> <thead> <tr> <th>Parcel</th><th>Wet waste (in TPD)</th><th>Dry Waste (in TPD)</th><th>Location</th></tr> </thead> <tbody> <tr> <td>Phase 1</td><td>1.09</td><td>0.74</td><td>Ground</td></tr> <tr> <td>Phase2</td><td>2.20</td><td>1.54</td><td>Ground and Lower Ground</td></tr> </tbody> </table>	Parcel	Wet waste (in TPD)	Dry Waste (in TPD)	Location	Phase 1	1.09	0.74	Ground	Phase2	2.20	1.54	Ground and Lower Ground
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Sr. No.	Information/Checklist Confirmation	Yes/No	Details thereof (with approximate quantities/ rates, wherever possible) with source of information data			
			Phase 3	3.30	2.39	Basements
			R2	0.03	0.05	Ground
			R5	1.11	0.78	Basements
			MX 1	0.23	0.34	Basements
			MX 2	2.38	1.86	Basements
			MX 3	0.79	0.73	Basements
			School	0.22	0.33	Basements
			Total	11.35	8.76	
			SEWAGE: 4946 KLD wastewater generated from the site is proposed to be treated in STP. The treated wastewater will be utilized for flushing & landscaping. The excess treated waste water shall be discharged to Municipal drain.			
			Parcel	Waste water generated (In KLD)	STP capacity provided (In KLD)	Location
			Phase 1	474	475	Basements
			Phase2	958	1040	STP 1 - Lower ground and Ground STP 2 -Ground / upper ground
			Phase 3	1421	1595	STP 1 – Basements STP 2 - Basements
			R2	9.5	10	Ground/Basements
			R5	480	485	Basements
			MX 1	114	120	Basements
			MX 2	1054	1060	STP 1 – Basements STP 2 - Basements
			MX 3	325	330	Basements
			School	110	115	Basements
			Temple	-	-	-
			Total	4946	5230	

Sr. No.	Information/Checklist Confirmation	Yes/No	Details thereof (with approximate quantities/ rates, wherever possible) with source of information data
1.16	Facilities for long term housing of operational workers?	No	No long-term housing facilities proposed as most of the skilled/unskilled manpower required for the construction /operation activities have been hired from the nearby areas.
1.17	New road, rail or sea traffic during construction of operation?	No	The entire essential infrastructure is already available. The existing approach from DP Road near to the site have been utilized.
1.18	New road, rail, air waterborne or other transport infrastructure including new or altered routes and stations, ports, airports etc.?	No	No new Rail/road is required. The entire essential infrastructure is already available. The existing approach from DP Road near to the site have been utilized.
1.19	Closure or diversion of existing transport routes or infrastructure leading to changes in traffic movements?	No	There will be no diversion or closure of the existing transport routes and infrastructure.
1.20	New or diverted transmission lines or pipelines?	No	Not Envisaged
1.21	Impoundment, damming, culverting, realignment or other changes to the hydrology of watercourses or aquifers?	No	Not Envisaged.
1.22	Stream crossings?	No	There is no stream passing through the site.
1.23	Abstraction or transfers of water from ground or surface waters?	No	Not at this stage. However, permission shall be obtained as and when intended.
1.24	Changes in water bodies or the land surface affecting drainage or run-off	Yes	Since existing surface of the site will change, run-off from the site will be affected.
1.25	Transport of personnel or materials for construction, operation or decommissioning?	Yes	The existing road abutting the site shall be utilized for the transportation of material and personal.
1.26	Long-term dismantling or decommissioning or restoration works?	No	Not applicable.
1.27	Ongoing activity during decommissioning which could have an impact on the environment?	No	Barricading structures shall be provided to mitigate noise and dust generation due to machineries and vehicular movement during construction phase

Sr. No.	Information/Checklist Confirmation	Yes/No	Details thereof (with approximate quantities/ rates, wherever possible) with source of information data
1.28	Influx of people to an area in either temporarily or permanently?	Yes	Construction Phase: The required labors shall be drawn from the nearby places. Some shall be provided residence in the labor camps inside the site. Operation Phase: After completion of the project, the total occupancy of the project is expected to be approx. 51,177 Nos.
1.29	Introduction of alien species?	No	There is no introduction of alien species
1.30	Loss of native species or genetic diversity?	No	No
1.31	Any other actions?	No	Not envisaged

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	The land is in highly developed infrastructure area under the jurisdiction of Thane Municipal Corporation.

2.2	Water (expected source & competing users) unit KLD	Yes	Construction Phase: Approximately 30 KLD of water would be required during construction phase. At presently the water demand is proposed to be met by municipal/ tanker water for domestic purpose. Note: Actual provision to be as per site and labour requirement Operation Phase: Total water demand of the project is expected to be 6238 KLD approximately wherein; Domestic Water requirement: 3701 KLD, Flushing water requirement: 1984 KLD and Landscape water requirement: 553 KLD. Total water requirement will be met by the TMC/Recycled Water. <table border="1"> <thead> <tr> <th>Parcel</th><th>Domestic (KLD)</th><th>Flushing (KLD)</th><th>Landscape (KLD)</th></tr> </thead> <tbody> <tr> <td>Phase 1</td><td>363</td><td>184</td><td>30</td></tr> <tr> <td>Phase2</td><td>731</td><td>373</td><td>65</td></tr> <tr> <td>Phase 3</td><td>1078</td><td>558</td><td>115</td></tr> <tr> <td>R2</td><td>5</td><td>5.5</td><td>48</td></tr> <tr> <td>R5</td><td>366</td><td>187</td><td>41</td></tr> <tr> <td>MX 1</td><td>71</td><td>57</td><td>14</td></tr> <tr> <td>MX 2</td><td>786</td><td>425</td><td>72</td></tr> <tr> <td>MX 3</td><td>232</td><td>139</td><td>41</td></tr> <tr> <td>School</td><td>69</td><td>55</td><td>14</td></tr> <tr> <td>Common Green Area</td><td></td><td></td><td>113</td></tr> <tr> <td>Total</td><td>3701</td><td>1984</td><td>553</td></tr> </tbody> </table>	Parcel	Domestic (KLD)	Flushing (KLD)	Landscape (KLD)	Phase 1	363	184	30	Phase2	731	373	65	Phase 3	1078	558	115	R2	5	5.5	48	R5	366	187	41	MX 1	71	57	14	MX 2	786	425	72	MX 3	232	139	41	School	69	55	14	Common Green Area			113	Total	3701	1984	553
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2.3	Minerals (MT)	No	Not Applicable																																																
2.4	Construction material – stone, aggregates, and/soil (expected source-MT)	Yes	Maximum attempt shall be made to procure construction materials from local vendors.																																																
2.5	Forests and timber (source-MT)	Yes	Apartments shall involve use of timber for doors.																																																

2.6	Energy including electricity and fuels (source, competing users) Unit: fuel (MT), energy (MW)	Yes	<u>During Construction Phase</u> Estimated Connected Load: 2000 KW (cumulative) Source: <u>MSEB/Local electricity supplier</u> <u>During Operation Phase</u> Connected Load: 65188 KW Demand Load: 33569 KW Source: MSEB/Local electricity supplier DG set shall be provided for backup power to emergency facilities. <table border="1"> <thead> <tr> <th>Parcel</th><th>Connected Load (in KW)</th><th>Demand Load (in KW)</th><th>D.G capacity (in kVA)</th></tr> </thead> <tbody> <tr> <td>Phase 1</td><td>5964</td><td>2856</td><td>600 X 2</td></tr> <tr> <td>Phase 2</td><td>12781</td><td>6358</td><td>630 X 4</td></tr> <tr> <td>Phase 3</td><td>16224</td><td>7870</td><td>750 X 4</td></tr> <tr> <td>R2</td><td>567</td><td>378</td><td>62.5 X 1</td></tr> <tr> <td>R5</td><td>4883</td><td>2208</td><td>2 x 500</td></tr> <tr> <td>MX 1</td><td>3504</td><td>2336</td><td>380 X 1</td></tr> <tr> <td>MX 2</td><td>13121</td><td>6993</td><td>3x 630+1 x 500</td></tr> <tr> <td>MX 3</td><td>6167</td><td>3252</td><td>1 x 750 + 1 x 250</td></tr> <tr> <td>School</td><td>1900</td><td>1267</td><td>1 x 200</td></tr> <tr> <td>Temple</td><td>77</td><td>51</td><td>-</td></tr> <tr> <td>Total</td><td>65,188</td><td>33,569</td><td></td></tr> </tbody> </table>	Parcel	Connected Load (in KW)	Demand Load (in KW)	D.G capacity (in kVA)	Phase 1	5964	2856	600 X 2	Phase 2	12781	6358	630 X 4	Phase 3	16224	7870	750 X 4	R2	567	378	62.5 X 1	R5	4883	2208	2 x 500	MX 1	3504	2336	380 X 1	MX 2	13121	6993	3x 630+1 x 500	MX 3	6167	3252	1 x 750 + 1 x 250	School	1900	1267	1 x 200	Temple	77	51	-	Total	65,188	33,569	
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2.7	Any other natural resources (use appropriate standard units)	No	Not envisaged																																																

3.0 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. No.	Information/Checklist Confirmation	Yes/No	Details thereof (with approximate quantities/ rates, wherever possible) with source of information data
3.1	Use of substances or materials, which are hazardous (as per MSIHC rules) to human health or the environment (flora, fauna, and water supplies)	No	No use of substance or materials which are hazardous to human health or environment shall be done.
3.2	Changes in occurrence of disease or affect disease vectors (e.g. insect or water borne diseases)	No	As no material harmful to human health or environment is proposed to be handled on site, change in occurrence of disease or change to disease vector is not expected because of the project.
3.3	Affect the welfare of people e.g. by changing living conditions?	No	As no work harmful to human health or environment is proposed to be handled on site, effects on welfare of people is not expected.
3.4	Vulnerable groups of people who could be affected by the project e.g. hospital patients, children, the elderly etc.,	No	Not Anticipated.
3.5	Any other causes	No	No other causes identified.

4.0 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
4.1	Spoil, overburden or mine wastes	No	Not Applicable

4.2	Municipal waste (domestic and or commercial wastes)	Yes	Both Bio- degradable and non-degradable solid waste produced during the operational phase have been provided, as follows: <table border="1"> <tr> <th>Sr. No.</th><th>Type Of Waste</th><th>Quantity (TPD)</th><th>Management/Disposal</th></tr> <tr> <td>1</td><td>Biodegradable Waste</td><td>11.35</td><td>It shall be treated in OWC/equivalent systems. The converted manure shall be used for Landscaping.</td></tr> <tr> <td>2</td><td>Non-biodegradable Waste</td><td>8.76</td><td>The waste shall be collected by local authority/recyclers</td></tr> </table>	Sr. No.	Type Of Waste	Quantity (TPD)	Management/Disposal	1	Biodegradable Waste	11.35	It shall be treated in OWC/equivalent systems. The converted manure shall be used for Landscaping.	2	Non-biodegradable Waste	8.76	The waste shall be collected by local authority/recyclers
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4.3	Hazardous wastes (as per hazardous waste management rules)	Yes	Used oil from the D.G set shall be sold to approved vendors for recycling.												
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	Sludge from STP will be used as manure for gardening/landscaping.												
4.7	Construction or demolition wastes	Yes	Will be used to maximum extent on site for backfilling, road construction and temporary structures. It shall be used as backfilling material during construction of internal roads to the best possible extent and rest sold to vendors for disposal.												
4.8	Redundant machinery or equipment	No	All Equipments used for construction shall be of standard quality and maintained on regular basis.												
4.9	Contaminated soils or other materials	No	Not Applicable												
4.10	Agricultural wastes	No	Not Applicable												
4.11	Other solid wastes	No	Not Applicable												

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

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	Yes	Emissions from DG set when it is operated in case of emergency. Emissions from Heavy vehicles during Construction Phase. Emissions from occupant vehicles during Operations Phase.
5.2	Emission from production processes	No	No such activity has been proposed.
5.3	Emissions from materials handling including storage or transport	Yes	During construction phase, fugitive emissions are expected to be generated, while handling and transportation of materials to site, But mitigation measures are proposed.
5.4	Emissions from construction activities including plant and equipment	Yes	The dust levels may arise during construction phase. Precautions are proposed to reduce dust generation during construction phase: • RMC use reduces the handling of cement, sand and concrete thus dust emission has been minimized. • RMC use reduces the trucks trips. • Tarpaulins used to cover trucks carrying debris. • Water sprinkling done at regular intervals to reduce control of dust generation on unpaved roads.
5.5	Dust or odours from handling of materials including construction materials, sewage and waste	Yes	Construction Phase: Fugitive dust emissions generated due to movement of vehicles and material handling. Tarpaulin sheets shall be used to cover the vehicles and water sprinkling shall be done to arrest dust generation due to vehicles. Operation Phase: During Operation Phase, emissions generated from operation of DG sets in emergency cases. Minimal emissions generated from movement of vehicles as fugitive dust as because paved roads.

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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	Not Applicable
5.8	Emissions from any other sources	No	Not Applicable.

6.0 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 equipment used for drilling, cutting operations. D.G Sets shall be proposed in acoustically designed enclosures so as to reduce the noise from D.G Set. For control of noise following measures have been adopted: • Properly maintained equipment shall be used. • High noise generating construction activities shall be carefully planned. • Workers working near high noise construction machinery shall be provided with PPE.
6.2	From industrial or similar processes	No	Not Applicable
6.3	From construction or demolition	Yes	Due to utilization of equipment for demolition of existing buildings & new construction, noise shall be generated. Therefore, following precautions will be taken to control noise pollution: • High noise generating construction activities shall be carefully planned. • Installation, use and maintenance of mufflers on equipment. • Workers working near high noise construction machinery supplied with PPE.
6.4	From blasting or piling	No	Not Applicable.

6.5	From construction or operational traffic	Yes	During Construction phase: There will be transportation of materials for construction work. Precautions have been taken to reduce the impact of the vehicular movement such as No vehicular trips at peak traffic hours and no honking zones. Proper planning of construction activities. During Operation Phase: The vehicular parking has been restricted only in the adequate parking area provided, which helped in reducing noise pollution due to traffic congestion. Adequate tree plantation will also help to reduce the noise level and enhance air quality.
6.6	From lighting or cooling systems	No	Not Envisaged
6.7	From any other sources	No	Not Envisaged

7.0 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	Not Applicable
7.2	From discharge of sewage or other effluents to water or the land (expected mode and place of discharge)	No	Wastewaters generated from domestic uses will be 4,946 KLD. Treated water will be utilized for Landscape & flushing. Balance treated water will be disposed off to Municipal drain.
7.3	By deposition of pollutants emitted to air into the land or into water	No	Dust will be generated during construction phase from earthworks and movement of vehicles. Appropriate fugitive dust control measures, including water sprinkling of exposed areas and dust covers for trucks, shall be provided to minimize any impacts. DG exhaust shall be discharged at appropriate height.
7.4	From any other sources	No	Not Anticipated
7.5	Is there a risk of long term build up of pollutants in the environment from these sources?	No	Not Anticipated

8.0 Risk of accidents during construction or operation of the project, which could affect 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 from storage, handling, use or production of hazardous substances.	No	Not Anticipated
8.2	From any other causes	No	Not Envisaged
8.3	Could the project be affected by natural disasters causing environmental damage (e.g. floods, earthquakes, landslides, could burst etc)?	No	The project falls under seismic zone-III as per IS1893 (Part-1):2002. Structural design is made earthquake resistant as per IS codes.

9.0 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 Confirmation	Yes/No	Details thereof (with approximate quantities/ rates, wherever possible) with source of information data
9.1	Lead to development of supporting utilities, ancillary development or development stimulated by the project which could have impact on the environment e.g.:	Yes	Supporting and ancillary development will take place. The project provides a well designed residential housing area for the occupants.
	Supporting infrastructure (roads, power supply, waste or waste water treatment, etc)	Yes	Internal road, Rain Water Harvesting, STP, RG etc. have been proposed.
	Housing development	Yes	The project provides a well designed residential housing area for the occupants.
	Extractive industries	No	Not Applicable
	Supply industries	No	Not Applicable
	Other	No	
9.2	Lead to after use of the site, which could have an impact on the environment.	No	Not Anticipated

Sr. No.	Information/Checklist Confirmation	Yes/No	Details thereof (with approximate quantities/ rates, wherever possible) with source of information data
9.3	Set a precedent for later developments	Yes	The project will provide good infrastructure and better life style, which will set an example for later developments in the surrounding area.
9.4	Have cumulative effects due to proximity to other existing or planned projects with similar effects	No	NA

(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	NA
2	Areas which are important or sensitive of ecological reasons – wetlands, water courses or other water bodies, coastal zone, biospheres, mountains, forests	No	For Forest- Not applicable as per ESZ notification dated 5 th Dec, 2016
3	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration	No	NA
4	Inland, coastal, marine or underground waters	No	All the inland waters shall be considered for baseline.
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 area all around the site. Proposed project site is located in densely populated area.
9	Areas occupied by sensitive man made land uses (hospitals, schools, places of worship,	Yes	Schools, hospitals and small temples are observed in 10 km radius.

Sr. No.	Areas	Name/ Identity	Aerial distance (with 15-km) Proposed project location boundary			
	<i>community facilities)</i>		1.	Nearest Bus Station	Thane	0 Km
			2.	Nearest School	Private School	1-2 Km
			3.	Nearest Market	Big Bazaar, DMart	1-2 Km
10	Areas containing important, high quality or scarce resources (<i>ground water resource, surface resources, forestry, agriculture, fisheries, tourism, minerals</i>)	No	There are no such environmentally sensitive features in the project vicinity.			
11	Areas already subjected to pollution or environmental damage. (<i>those where existing legal environmental standards are exceeded</i>)	No	Not in immediate vicinity of the area.			
12	Areas susceptible to natural hazard which could cause the project to present environmental problems (<i>earthquakes, subsidence, landslides, erosion, flooding or extreme or adverse climatic conditions</i>)	No	The area falls in Seismic Zone III which is low seismic activity zone. Proposed construction is earthquake resistant and as per the NBC norms.			

(b) The following shall be inserted at the end, namely:

Form 1

By M/s Agile Real Estate Pvt. Ltd.

“I hereby give 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: 16 June 17

Place: Mumbai

**Authorized Signatory
M/s. Agile Real Estate Pvt. Ltd.**

Form I

By M/s Agile Real Estate Pvt. Ltd.

"I hereby give 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: 16 June 17

Place: Mumbai



**Authorized Signatory
M/s. Agile Real Estate Pvt. Ltd.**

FORM-1A
(Only for Construction Projects listed under Item 8 of Schedule)
Checklist of Environmental Impacts

1. Land Environment

Requirement	Compliance
1.1. Will the existing land use get significantly altered from the project that is not consistent with the surroundings? (Proposed land use must conform to the approved Master Plan/Development Plan of the area. Change of land use if any and the statutory approval from the competent authority are 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.	- The land use is for residential purpose as per Municipal commissioner's approval. The change in land use is done by local body after closure of industry in all respect and to meet the need for residential purpose. - The site is under the jurisdiction of Thane Municipal Corporation. - The project surroundings are predominantly residential.
1.2. List out all the major project requirements in terms of the land area, built up area, water consumption, power requirement, connectivity, community facilities, parking needs etc.	➤ Name & Location: Proposed development on 10/1, 10/2B, 10/4B, 19/25 (pt.), 19/27 (pt.), 19/33, 19/34 (pt.), 19/ 39(pt), 19/40, 19/41 (pt), 19/44, 79/1A, 79/1B, 79/2A, 79/2B, 79/3 TO 79/9 , 80/1, 80/2, 82(pt.), 83/1, 83/2A, 83/2B, 83/3, 83/4A, 83/4B, 83/5, 83/6(pt), 83/7(pt.), 83/8(pt), 83/9(pt.), 83/10(pt.), 86/1(pt.) to 86/3(pt.), 87/1(pt.), 87/2 to 87/6, 88/11(pt.), 88/12(pt.), 88/14, 88/15, 89/2 (pt.), 89/3 to 89/6, 89/7 (pt.), 89/8, 89/9(pt.), 90/1, 90/2, 90/3A TO 90/3F, 90/4 TO 90/9, 90/10A, 90/10B, 90/11 TO 90/13 , 92/8B, 92/9A, 92/17A, 92/19A, 92/20 TO 92/22 , 93/1 TO 93/4 , 94/1, 94/2 , 95/1 TO 95/3, 95/5(pt.), 95/6, 95/7A, 95/7B, 95/7C, 95/8(pt.) 95/9, 95/10, 95/11A, 95/11B, 95/12 TO 95/16, 95/17A, 95/17B, 95/17C, 95/18, 95/19 (pt.), 95/20 (pt.), 95/21A to 95/21C, 95/22, 95/23A(pt.), 95/21C, 95/24, 95/25 (pt.), 95/26A to 95/26C, 95/27(pt.), 95/28 (pt.), 95/33 (pt.), 95/39 (pt.), 96/1, 96/2, 96/3A(pt.), 96/3B(pt.), , 96/4, 97/1 to 97/4, 97/5(pt.), 97/6A TO 97/6C, 97/7A (pt.), 97/7B (pt.), 97/9 (pt.), 98/1 (pt.), 98/3(pt.), 98/4 (pt.), 98/8B(pt.), 99/7(pt.), 99/8, 99/15 (pt.), 99/16 (pt.), 99/8, 100/3A (pt.), 1006 (pt.), 100/7(pt.), 100/8A, 100/8B, 100/9, 100/10, 100/13 (pt.), 100/14B, 100/17C, 100/18 (pt.), 100/19A (pt.), 100/21, 100/22A, 101/2C (pt.), 101/2C (pt.), 101/3B (pt.), 104/16 of Village Balkum, Thane.

➤ **Area Statement:**

- Total plot area: 4, 37,961.00 Sq.mt.
- Plot Area considered for expansion at present : 2,43,787.42 sq.mt.
- Corresponding FSI area: 6,36,007.91 Sq.mt.
- Corresponding Non FSI Area: 8,49,919.415 Sq.mt.
- Corresponding Construction Area: 14,85,927.16 Sq.mt.

Water consumption:

- Total Water Requirement: 6238 KLD
 - Fresh water (KLD) & source: 3701 KLD by TMC (Thane Municipal Corporation)
 - Recycled water (KLD): 2540 KLD
- Flushing: 1984 KLD
Gardening: 553 KLD

Parcel	Domestic (KLD)	Flushing (KLD)	Landscape (KLD)
Phase 1	363	184	30
Phase2	731	373	65
Phase 3	1078	558	115
R2	5	5.5	48
R5	366	187	41
MX 1	71	57	14
MX 2	786	425	72
MX 3	232	139	41
School	69	55	14
Common Green Areas	-	-	113
Total	3701	1984	553

Parcel	Waste water generated (In KLD)	STP capacity provided (In KLD)	Location
Phase 1	474	475	Basements
Phase2	958	1040	STP 1 - Lower ground and Ground

			STP 2 -Ground / upper ground
Phase 3	1421	1595	STP 1 – Basements STP 2 - Basements
R2	9.5	10	Ground/Basements
R5	480	485	Basements
MX 1	114	120	Basements
MX 2	1054	1060	STP 1 – Basements STP 2 - Basements
MX 3	325	330	Basements
School	110	115	Basements
Temple	-	-	-
Total	4946	5230	

➤ **Power requirement:**
Construction Phase
Estimated Load: 2000 KW (cumulative)
Source: MSEB/Local Electricity supplier

Operation phase:
Connected load- 65188 KW
Maximum demand - 33569 KW

Source: MSEB/Local Electricity supplier
DG set shall be provided for backup power to emergency facilities.

Parcel	Connected Load (in KW)	Demand Load (in KW)	D.G capacity (in kVA)
Phase 1	5964	2856	600 X2
Phase2	12781	6358	630 X 4
Phase 3	16224	7870	750 X 4
R2	567	378	62.5 X 1
R5	4883	2208	2 x 500
MX 1	3504	2336	380 X 1
MX 2	13121	6993	3x 630+1 x 500

MX 3	6167	3252	1 x 750 + 1 x 250
School	1900	1267	1 x 200
Temple	77	51	-
Total	65,188	33,569	

➤ **Parking requirement:**

No of parking: 12,518 No's of 4 wheelers

Parcel	Parking No of four wheelers	Parking for Two Wheelers
Phase 1	1,199	794
Phase2	2,512	1,695
Phase 3	,3886	2,214
R2	59	44
R5	1,043	781
MX 1	374	408
MX 2	2,231	1,679
MX 3	1,066	1,169
Temple	-	-
School	148	376
Total	12,518	9,160

➤ Width of Internal roads (m) 24.0 and 18.0 m.

➤ **Occupancy load:** 51,177 No's.

➤ **Solid Waste:**

Parcel	Wet waste (in TPD)	Dry Waste (in TPD)	Location
Phase 1	1.09	0.74	Ground
Phase2	2.2	1.54	Ground and Lower Ground
Phase 3	3.3	2.39	Basements
R2	0.03	0.05	Ground
R5	1.11	0.78	Basements

	MX 1	0.23	0.34	Basements
	MX 2	2.38	1.86	Basements
	MX 3	0.79	0.73	Basements
	School	0.22	0.33	Basements
	Total	11.35	8.76	
1.3. What are the likely impacts of the proposed activity on the existing facilities adjacent to the proposed site? (Such as open spaces, community facilities, details of the existing landuse, disturbance to the local ecology)	The proposed activity has improved the basic infrastructure facilities of the area. Open spaces, community facilities are simultaneously being augmented in the surroundings. In this regards, approximately 99,780.81sq. mt. of land is handed over to TMC as amenity space.			
1.4. Will there is any significant land distribution resulting in erosion, subsidence & instability? (Details of soil type, slope analysis, vulnerability to subsidence, seismicity etc may be given)	There is no significant land disturbance due to the project.			
1.5. Will the proposal involve alteration of natural drainage systems? (Give details on a contour map showing the natural drainage near the proposed project site)	No change in the natural drainage pattern.			
1.6. What are the quantities of earthwork involved in the construction activity-cutting, filling, reclamation etc. (Give details of the quantities of earthwork involved, transport of fill materials from outside the site etc.)	The excavated material shall be reused for back filling, Road work, temporary works etc. to the maximum extent. The excess shall be transported in covered trucks through vendors.			
1.7. Give details regarding water supply, waste handling etc. during the construction period.	During construction phase, water supply shall be met through municipal/tanker water. Solid waste shall be collected at designated locations on the site and handed over to TMC.			
1.8. Will the low lying areas & wetlands get altered? (Provide details of how low lying and wetlands are getting modified from the proposed activity)	No. There is no wetland in the project area			

2. Water Environment

Requirement	Compliance
2.1. Give the total quantity of water requirement for the proposed project with the break-up of requirements for various uses. How will the water requirements met? State the sources & quantities and furnish a water balance statement.	<u>Construction Phase:</u> During construction phase: approx.. 30 KLD Source :TMC/ tanker water Note: Actual water demand may depend upon the requirement of workforce and construction requirement. <u>Operation Phase:</u> Total Water Requirement; - Domestic water (CMD): 3701 KLD by Source: TMC (Thane Municipal Corporation) - Flushing: 1984 KLD - Gardening: 553 KLD Source: Recycled water
2.2. What is the capacity (dependable flow or yield) of the proposed source of water?	For water supply the project is dependent on TMC & recycled water. Recycled water used for gardening & flushing.
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)	Being well developed urban area, Water supply shall be from the Thane Municipal Corporation (TMC).
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)	Total treated water generated from the project is 4452 KLD. All secondary water requirements like flushing & gardening shall be fulfilled by treated water from STP.
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)	No
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)	4946 KLD wastewater shall be generated in the project. STPs of different capacities shall be provided to treat the waste water. 2537 KLD of treated waste water will be recycled for flushing (1984 KLD) and landscaping (553 KLD). Excess treated water (1912 KLD) shall be disposed off to Municipal drain.
2.7. Give details of the water requirements met from water harvesting? Furnish details of the facilities created.	Rain water recharge pits shall be proposed.

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?	The storm water runoff shall be properly channelized through designed Storm water drainage system. It will not aggravate the problems of flooding or water logging in any way
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)	Post construction stage, Rain water recharge system shall be provided & recycled water shall be used for flushing and landscaping purposes
2.10. What precautions/measures are taken to prevent the run-off from construction activities polluting land and aquifers? (Give details of quantities and the measures taken to avoid the adverse impacts)	Sediment traps/Silt basins shall be provided to arrest soil erosion.
2.11. How is the storm water from within the site managed? (State the provisions made to avoid flooding of the area, details of the drainage facilities provided along with a site layout indication contour levels)	Storm water drain system depending up on run-off load shall be designate and connected to internal SWD system by taking due cognizance of their capacities.
2.12. Will the deployment of construction labourers particularly in the peak period lead to unsanitary conditions around the project site (Justify with proper explanation)	During construction phase the sewage generated shall be collected in septic tank/soak pits. Hence, it will not lead to unsanitary conditions around the project site.
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 quantity of wastewater – 4946 KLD generated from the project shall be treated in STP with different capacities and recycled water used for gardening and flushing purpose and excess to be disposed to Municipal drains
2.14. Give details of dual plumbing system if treated wastewater is used for flushing of toilets or any other use.	Dual plumbing system shall be provided for use of treated wastewater for flushing operations.

3. Vegetation

Requirement	Compliance
3.1. Is there any threat of the project to the biodiversity? (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

3.2. Will the construction involve extensive clearing or modification of vegetation? (Provide a detailed account of the trees & vegetation affected by the project)	There are some trees out of them some will be cleared after getting Tree NOC; Total RG area Proposed: 61,051.45 m
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)	Trees shall be retained which are not affected by building lines. Compensatory tree plantation and new tree plantation shall be done as per tree NOC.

4. Fauna

Requirement	Compliance
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 displacement of fauna - both terrestrial and aquatic
4.2. Any direct or indirect impacts on the avifauna of the area? Provide details.	No major impact on the avifauna of the area.
4.3. Prescribe measures such as corridors, fish ladders etc. to mitigate adverse impacts on fauna.	The project is located on landmass and there is no need to provide corridors and fish ladders etc.

5. Air Environment

Requirement	Compliance
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 design has been designed with sufficient open spaces for natural air movement. Hence there won't be concentration of gases and creation of heat island effect.
5.2. What are the impacts on generation of dust, smoke, odorous fumes or other hazardous gases? Give details in relation to all the meteorological parameters.	Dust is likely to be generated during constructional phase. Mitigation measures to be proposed: • Dust Control by Water Sprinkling, • Transport vehicles shall be covered with Tarpaulin sheets. • Vehicles and instruments shall be regularly maintained. • Barricades shall be provided along the periphery of the construction site.
5.3. Will the proposal create shortage of parking space for vehicles? Furnish details of the present level of transport infrastructure and measures proposed for improvement including the traffic	No. Adequate parking has been proposed for residential buildings. Internal roads have been planned within the proposed complex for smooth entry and exit of vehicles.

management at the entry and exit to the project site.	
5.4. Provide details of the movement patterns with internal roads, bicycle tracks, pedestrian pathways, footpaths etc., with areas under each category.	Three internal roads two with the width of 24.0 mt and one road with width of 18.0 mt are proposed within the layout to cater to all kinds of transport modes.
5.5. Will there be significant increase in traffic noise & vibrations? Give details of the sources and the measures proposed for mitigation of the above.	The project proponent has proposed to provide well organized parking arrangement, which would help in reducing noise levels due to vehicular movement in the parking area. The mitigation is proposed through a detailed EMP that has been planned to reduce the noise and vibration impacts during the construction phase.
5.6. What will be the impact of D.G. sets & other equipment on noise levels & vibration in & ambient air quality around the project site? Provide details.	D.G. Sets shall be operated only in case of power failures during operational phase for emergency services only D.G. sets shall be provided with acoustic enclosure and the discharge of flue gases shall be at adequate stack height (as per CPCB guidelines).

6. Aesthetics

Requirement	Compliance
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. The project is well designed and shall enhance aesthetics of the area.
6.2. Will there be any adverse impacts from new constructions on the existing structures? What are the considerations taken into account?	There are no adverse impacts anticipated from new constructions on the existing structures.
6.3. Whether there are any local considerations of urban form & urban design influencing the design criteria? They may be explicitly spelt out.	The design of the project is influenced by the regulation set out by local authority and modern needs of the society.
6.4. Are there any anthropological or archaeological sites or artefacts nearby? State if any other significant features in the vicinity of the proposed site have been considered.	There are no anthropological or archaeological sites or artefacts nearby proposed site.

7. Socio-Economic Aspects

Requirement	Compliance
7.1. Will the proposal result in any changes to the demographic structure of local population? Provide the details.	After completion of the project, there would be influx of 51,777 nos. of people.

7.2. Give details of the existing social infrastructure around the proposed project.	1.	Nearest Bus Station	Thane	0 Km
	2.	Nearest School	Private School	1 -2 Km
	3.	Nearest Market	Big Bazaar, DMart	1-2 Km
7.3. Will the project cause adverse effects on local communities, disturbance to sacred sites or other cultural values? What are the safeguards proposed?	The proposed project does not cause any adverse effects on local communities, disturbance to sacred sites or other cultural values.			

8. Building Materials

Requirement	Compliance
8.1. May involve the use of building materials with high-embodies 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)	The basic engineering materials like RMC, cement, sand, blocks, etc shall be purchased from local vendors.
8.2. Transport and handling of materials during construction may result in pollution, noise & public nuisance. What measures are taken to minimize the impacts?	• The construction material shall be carried in properly covered vehicles. • All the contractors / Vendors shall be instructed to use properly maintained vehicles. • Security staff present at site to supervise loading and unloading of material at site. • Construction material stored at identified site/ temporary godowns at site. • Regular water sprinkling on Internal roads maintained in good conditions with regular sprinkling of water to curb the dust nuisance to the surrounding. • Tree plantation along the periphery.
8.3. Are recycled materials used in roads and structures? State the extent of savings achieved?	Yes, the construction debris shall be reused in backfilling, roads and temporary works.
8.4. Give details of the methods of collection, segregation & disposal of the garbage generated during the operation phases of the project.	The solid waste management facility has been proposed as per MSW rules. • Segregated Garbage shall be collected from each household and brought to the garbage collection room. • The wet garbage (biodegradable waste) to be treated into OWC/equivalent systems and converted to manure. The manure shall be used for gardening/landscaping. • The dry garbage (non biodegradable waste) handed over to authorised collectors/recyclers for further disposal.

9. Energy Conservation

Requirement	Compliance																																																
9.1. Give details of the power requirements, source of supply, backup source etc. What is the energy consumption assumed per square foot of build-up area? How have you tried to minimize energy consumption?	Power Supply: During Construction Phase Estimated connected load: 2000 KW (cummulative) Source of Power – MSEB/Local Electricity supplier During Operation Phase Connected Load = 65188 KW Demand Load = 33569 KW <table><tr><th>Parcel</th><th>Connected Load (in KW)</th><th>Demand Load (in KW)</th><th>D.G capacity (in kVA)</th></tr><tr><td>Phase 1</td><td>5964</td><td>2856</td><td>600 X2</td></tr><tr><td>Phase2</td><td>12781</td><td>6358</td><td>630 X 4</td></tr><tr><td>Phase 3</td><td>16224</td><td>7870</td><td>750 X 4</td></tr><tr><td>R2</td><td>567</td><td>378</td><td>62.5 X 1</td></tr><tr><td>R5</td><td>4883</td><td>2208</td><td>2 x 500</td></tr><tr><td>MX 1</td><td>3504</td><td>2336</td><td>380 X 1</td></tr><tr><td>MX 2</td><td>13121</td><td>6993</td><td>3x 630+1 x 500</td></tr><tr><td>MX 3</td><td>6167</td><td>3252</td><td>1 x 750 + 1 x 250</td></tr><tr><td>School</td><td>1900</td><td>1267</td><td>1 x 200</td></tr><tr><td>Temple</td><td>77</td><td>51</td><td>-</td></tr><tr><td>Total</td><td>65,188</td><td>33,569</td><td></td></tr></table> Source of Power – MSEB/Local Electricity supplier DG sets shall be provided with proper acoustic enclosure for emergency services.	Parcel	Connected Load (in KW)	Demand Load (in KW)	D.G capacity (in kVA)	Phase 1	5964	2856	600 X2	Phase2	12781	6358	630 X 4	Phase 3	16224	7870	750 X 4	R2	567	378	62.5 X 1	R5	4883	2208	2 x 500	MX 1	3504	2336	380 X 1	MX 2	13121	6993	3x 630+1 x 500	MX 3	6167	3252	1 x 750 + 1 x 250	School	1900	1267	1 x 200	Temple	77	51	-	Total	65,188	33,569	
Parcel	Connected Load (in KW)	Demand Load (in KW)	D.G capacity (in kVA)																																														
Phase 1	5964	2856	600 X2																																														
Phase2	12781	6358	630 X 4																																														
Phase 3	16224	7870	750 X 4																																														
R2	567	378	62.5 X 1																																														
R5	4883	2208	2 x 500																																														
MX 1	3504	2336	380 X 1																																														
MX 2	13121	6993	3x 630+1 x 500																																														
MX 3	6167	3252	1 x 750 + 1 x 250																																														
School	1900	1267	1 x 200																																														
Temple	77	51	-																																														
Total	65,188	33,569																																															
9.2. What type of, and capacity of, power back-up to you plan to provide?	DG set have been provided for backup power for emergency services in case of emergency situation only.																																																
9.3. What are the characteristics of the glass you plan to use? Provide specifications of its characteristics related to both short wave and long wave radiation?	Single Glazed Glass shall be proposed for windows.																																																
9.4. What passive solar architectural features are being used in the building?	Building orientation, wall to window ratio and thermal properties of envelop are being considered to reduce																																																

Illustrate the applications made in the proposed project.	solar heat gain and to maximize provision of natural light and ventilation.
9.5. Does the layout of streets and 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?	Solar systems shall be proposed
9.6. Is shading effectively used to reduce cooling/heating loads? What principles have been used to maximize the shading of Walls on the East and West and the Roof? How much energy saving has been effected?	Depending upon the site location, efforts are being made to maximize the shading of walls.
9.7. Do the structures use energy-efficient space conditioning, lighting and mechanical 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.	Yes. Energy efficient lighting shall be provided for common areas. The customers shall be educated regarding the importance of energy efficient/star rated electrical appliances.
9.8. What are the likely effects of the building activity in altering the microclimates? Provide a self assessment on the likely impacts of the proposed construction on creation of heat islands & inversion effects?	There will not be any effect of the building activity in altering microclimate.
9.9. What are the thermal characteristics of the building 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.	• The proposed buildings is residential. • High SRI material shall be provided to the roof.
9.10. What precautions & safety measures are proposed against fire hazards? Furnish details of emergency plans.	Proper precautions and safety measures shall be taken according to Chief Fire Officer, of the TMC. Moreover, proper fire detection/extinguishing system, exit facilities, etc. installed for safety purpose. Refuse area have been provided as per norms.
9.11. If you are using glass as wall material, provide details and specifications including emissivity and thermal characteristics.	Glass shall be used for window areas.
9.12. What is the rate of air infiltration into the building? Provide details of how you are mitigating the effects of infiltration.	Dwelling units shall be provided with adequate ventilation.
9.13. To what extent the non-	Solar system shall be proposed to the possible extent.

conventional energy technologies are utilised in the overall energy consumption? Provide details of the renewable energy technologies used.	
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ENVIRONMENT MANAGEMENT PLAN

(The Environment Management Plan shall consist of all mitigation measures for each activity to be undertaken during the construction, operation and the entire life cycle to minimise adverse environmental impacts. It would also include the environmental monitoring plan for compliance of various environmental regulations and conditions in the EC. It will also state the steps that shall be taken in case of emergency such as accidents at the site including fire.)