

COMPLIANCE REPORT

(APRIL 2023 - SEPTEMBER 2023)

For

PROPOSED RESIDENTIAL CUM COMMERCIAL PROJECT

(obtained EC from SEIAA, Maharashtra vide No. EC22B039MH192612 dt. 27.04.2022)

At

Plot bearing S. No. 4/1, 4/2, 4/4, 7/5, 105/1, 105/2, 105/3,
105/4, 105/6, 105/10, 6/1, 106/1, 106/2, 107/1A, 107/1B, 107/1C, 107/2,
107/3, 108/3, 2/34, 2/38, 2/39, 2/40, 2/41 at Village Vadavali, Tal. &
Dist. Thane, Maharashtra.

Proposed By

ANANT SQUARE

Project Details

S. No.	Particulars	Details
1	Project type :River- valley/mining /Industry/Thermal/Nuclear/ other(specify)	Building Construction Project
2	Name of the Project	Residential cum Commercial
3	Clearance letter(s)/OM and Date	Environmental Clearance from SEIAA, Maharashtra vide No. EC22B039MH192612 dt. 27.04.2022
4	Location	Plot bearing S. No. 4/1, 4/2, 4/4, 7/5, 105/1, 105/2, 105/3, 105/4, 105/6, 105/10, 6/1, 106/1, 106/2, 107/1A, 107/1B, 107/1C, 107/2, 107/3, 108/3, 2/34, 2/38, 2/39, 2/40, 2/41 at village Vadavali, Tal. & Dist .Thane, Maharashtra.
	a) District(s)	Thane
	b) State(s)	Maharashtra
	c) Latitude/Longitude	Latitude: 19°16'14.07"N Longitude: 72°58'19.26"E
5	Address of correspondence	
	a) address of concerned Project Chief Executive (with pin code & telephone/telex/fax numbers)	Shri. Sachin Mirani Anant Square, Behind Vijay Park, Next to Everest Daffodil, Opp. Hypercity Mall, Kasarvadavli, Ghodbunder Road, Thane West - 400607
	b) Address of Executive Project Engineer /Manager (with pin code/fax numbers)	Same as above
6	Salient features	
	a) of the Project	Total 7 nos. of buildings having tenements 1,909 Nos, Comm. area: 1,474.77 m ²
	b) of the Environmental Management Plan	Sewage Treatment Plant of total 1,300 KLD capacity, Rain Water Harvesting system and Solid waste management through Mechanical Composting
7	Breakup of the project area	
	a) submergence area : forest & non-forest	NA
	b) Others	Total Plot area: 38,006.07 m ²
		FSI area 88,104.19 m ²
		Non FSI area 1,27,356.03m ²
		Total BUA 2,15,460.22 m ²
8	Breakup of the project affected population with enumeration of those losing houses/dwelling unit only agricultural land only, both dwelling units & agricultural land	

	& landless laborers/		
	a) SC, ST / Adivasis	N.A.	
	b) others (Please indicate whether these figures are based on any scientific and systematic survey carried out or only provisional figures, if a survey carried out gives details and years of survey)	N.A.	
9	Financial details:		
	a) Project cost as originally planned and subsequent revised estimates and the year of price reference	Rs. 695/- Cr.	
	b) Allocation made for environmental management plans with item wise and year wise break-up	Construction Cost	60 Lakhs
		Operation & Maintenance Cost	119 Lakhs/Y
	c) Benefit cost ratio/Internal rated of Return and the year of assessment	N.A.	
	d) Whether (c) includes the cost of environmental management as shown in the above	N.A.	
	e) Actual expenditure incurred on the environmental management plans so far	N.A.	
10	Forest land requirement	No Forest Land Required.	
	a) The status of approval for diversion of forest land for non-forestry use	N.A.	
	b) The status of clearing felling	N.A.	
	c) The status of compensatory	N.A.	
	d) afforestation, if any	N.A.	
	e) Comments on the viability & sustainability of compensatory afforestation programme in the light of actual field experience so far	N.A.	
11	The status of clear felling in non-forest area (such as submergence area of reservoir, approach roads), if any with quantitative information	N.A.	
12	Status of construction		
	a) Date commencement (Actual	Construction is not started after receipt of	

	and/or planned)	EC
	b) Date of completion (Actual and/or planned)	
13	Reasons for the delay if the project is yet to start	NA
14	Dates of site visits	
	a) The dates on which the project was monitored by the Regional office on previous occasions, if any	NA
	b) Date of site visit for this monitoring report	NA
15	Details of correspondence with project authorities for obtaining action plans/information on status of compliance to safeguards other than the routine letters for logistic support for site visits) (The first monitoring report may contain the details of all the letters issued so far, but the later reports may cover only the letters issued subsequently)	We have received Environmental Clearance from SEIAA, Maharashtra vide No. EC22B039MH192612 dt. 27.04.2022

Present status of proposed Residential cum Commercial project at plot bearing S. No. 4/1, 4/2, 4/4, 7/5, 105/1, 105/2, 105/3, 105/4, 105/6, 105/10, 6/1, 106/1, 106/2, 107/1A, 107/1B, 107/1C, 107/2, 107/3, 108/3, 2/34, 2/38, 2/39, 2/40, 2/41 of Village Vadavali, Tal. & Dist. Thane, Maharashtra

- CONSTRUCTION WORK IS NOT STARTED ON SITE AS PER EARLIER EC.

Compliances to Environmental Clearance from SEIAA, Maharashtra vide No. EC22B039MH192612 dt. 27.04.2022.

SPECIFIC CONDITIONS		
A. SEAC CONDITIONS: -		
	Conditions	Compliance
1.	PP to submit IOD/IOA/Concession Document/Plan Approval or any other form of documents as applicable clarifying its conformity with local planning rules and provisions as per the Circular dated 30.01.2014 issued by the Environment Department, Govt. of Maharashtra.	We have obtained the approval plan from TMC vide No. TMC/HO- 1/TDD-29/5242 dated: 10.02.2020 and same approval has been submitted during the meeting. Accordingly, committee has granted EC to the project.
2.	PP to obtain following NOCs : a) CFO NOC, b) Storm Water Drains Remark c) Tree NOC.	We have obtained the necessary NOC/Remarks
3.	PP to submit revised STP layout showing 40% open to sky; PP to relocate parking shown over the STP.	We have revised STP layout showing 40% open to sky & also relocate parking shown over the STP
4.	PP to relocate parking adjacent to RG Area; PP to provide access for RG-3; PP to carry Miyawaki plantation within the project premises & include the cost of same in EMP; PP to revise tree list including trees to be planted in Miyawaki Forest.	We have already relocated parking adjacent to RG Area and have proposed access for RG-3. We are planning 520 nos. of trees on plot. Also we will develop Miyawaki Forest along with additional 2,700 Nos. of Trees / Shrubs in the project.
5.	PP to reduce the discharge of treated water up to 35%. PP to submit the undertaking from concerned authority/agency/third party regarding use of excess treated water.	We will reduce the discharge of treated water. We have applied for obtaining relevant NOC from the competent authority for supply of excess treated water
6.	PP to ensure that minimum 25% of 2-wheeler and 4-wheeler parking is equipped with electric charging facility.	We agreed
7.	PP to include DMP in EMP & accordingly revise EMP of operation phase	We have added DMP cost in EMP of the project.
B. SEIAA CONDITIONS:-		

1.	This Environment Clearance is only for Building No. 2, 3 and 4. Environment Clearance is restricted as per CFO NOC dated 02.04.2018 & 22.04.2022 and it is only for Building no. 2 up to 117.80 m height, Building no. 3 up to 18 th floors and for Building no. 4 up to 13 th floors.	Noted
2.	PP to keep open space unpaved so as to ensure permeability of water. However, whenever paving is deemed necessary, PP to provide grass pavers of suitable types & strength to increase the water permeable area as well as to allow effective fire tender movement.	Noted
3.	PP to achieve at least 5% of total energy requirement from solar/other renewable sources.	We will achieve the around 5% of the Energy saving through Renewable source.
4.	PP Shall comply with Standard EC conditions mentioned in the Office Memorandum issued by MoEF & CC vide F.No.22-34/2018-IA.III dt.04.01.2019	We agree
5.	SEIAA after deliberation decided to grant EC for - FSI area -88,104.19 m ² , Non FSI area - 1,27,356.03 m ² and total BUA - 2,15,460.22 m ² (Plan approval No. - TMC/HO-1/TDD-29/5242 dated: 10.02.2020)	We agree
General Conditions		
A. Construction Phase:-		
(i)	The solid waste generated should be properly collected and segregated, Dry/inert solid waste should be disposed of to the approved sites for land filling after recovering recyclable material	Solid waste generated will be properly collected and segregated. Dry waste will be handed over to Municipal corporation bin.

(ii)	Disposal of muck, Construction spoils, including bituminous material during construction phase should not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in the approved sites with the approval of competent authority.	<p>The muck will be disposing with the permissions of competent authority at approved site.</p> <p>As a precaution, we will barricade about 35 feet above ground level to create general safety and health aspects of people.</p> <p>Re-utilization strategy for construction debris will be followed. Recycled aggregate will be used for filling application.</p>
(iii)	Any hazardous waste generated during construction phase should be disposed of as per applicable rules and norms with necessary approvals of the Maharashtra Pollution Control Board.	<p>No hazardous waste will be generated during construction and operation phase.</p> <p>However, the disposal of the same shall be done as per CPCB /MPCB norms applicable to hazardous waste.</p>
(iv)	Adequate drinking water and sanitary facilities should be provided for construction workers at the site. Provision should be made for mobile toilets. The safe disposal of wastewater and solid wastes generated during the construction phase should be ensured.	<p>Adequate drinking water and sanitary facilities will be provided to workers.</p> <p>The waste generated from the labour will be mostly household waste, which will be collected and disposed to Municipal Solid Waste Management Facility</p>
(v)	Arrangement shall be made that waste water and storm water do not get mixed.	The storm water drains and sewer lines will be separately provided on site. This arrangement shall ensure that storm water and sewage will not mix.
(vi)	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices.	Complying the same by use of pre-mixed concrete, curing agents and other best practices in NBC
(vii)	The ground water level and its quality should be monitored regularly in consultation with Ground Water Authority.	<p>The drinking water quality is monitored through MoEF recognized laboratory.</p> <p>Monitoring reports are attached.</p> <p>We are not using ground water for construction purpose as well as operational phase.</p>

(viii)	Permission to draw ground water for construction of basement if any shall be obtained from the competent Authority prior to construction/operation of the project,	We are not using ground water in the project.
(ix)	Fixtures for showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control.	Water efficient sanitary fixtures will be provided for completed buildings.
(x)	The Energy Conservation Building code shall be strictly adhered to.	We agree
(xi)	All the topsoil excavated during construction activities should be stored for use in horticulture / landscape development within the project site.	We agree
(xii)	Additional soil for leveling of the proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improved	Natural drainage system of area will not be disturbed.
(xiii)	Soil and ground water samples will be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.	Soil and water analysis is carried regularly from MoEF recognized laboratory. Monitoring reports are attached.
(xiv)	PP to strictly adhere to all the conditions mentioned in Maharashtra (Urban Areas) Protection and Preservation of Trees Act, 1975 as amended during the validity of Environment Clearance.	Noted
(xv)	The diesel generator sets to be used during construction phase should be low Sulphur diesel type and should conform to Environments (Protection) Rules prescribed for air and noise emission standards.	The D. G. set will be enclosed type and as per CPCB norms. 1 nos. of the DG having 500 kVA capacity will be installed on site for the construction phase. Not yet installed at site. DG will be used for the emergency backup only.

(xvi)	Vehicles hired for transportation of Raw material shall strictly comply the emission norms prescribed by Ministry of Road Transport & Highways Department. The vehicle shall be adequately covered to avoid spillage/leakages.	Regular maintenance of construction vehicles will be carried out to keep them in good condition. The vehicles having PUC certificate is used. Adequate parking space will be also be made for construction vehicles inside the construction premises to lessen the impacts on traffic in surrounding areas.
(xvii)	Ambient noise levels should conform to residential standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase. Adequate measures should be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/MPCB.	The noise levels as well as air pollution are monitored regularly from MoEF recognized laboratory. Monitoring reports are attached.
(xvii i)	Diesel power generating sets proposed as source of backup power for elevators and common area illumination during construction phase should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use low Sulphur diesel is preferred. The location of the DG sets may be decided with in consultation with Maharashtra Pollution Control Board.	We will be complied to above & make necessary arrangements. The DG sets will be provided as emergency back for lift, common area, pumps etc. The DG set shall confirm the guidelines prescribed by CPCB and rules made under the Environment (Protection) Act 1986.
(xix)	Regular supervision of the above and other measures for monitoring should be in place all through the construction phase, so as to avoid disturbance to the surroundings by a separate environment cell /designated person.	The regular supervision will be carried out by the project in-charge and supervisors are trained in Environmental Management measures.

B). Operation Phase:-

(i)	<p>a) The solid waste generated should be properly collected and segregated.</p> <p>b) Wet waste should be treated by Organic Waste Converter and treated waste (manure) should be utilized in the existing premises for gardening. And, no wet garbage will be disposed outside the premises.</p> <p>c) Dry/inert solid waste should be disposed of to the approved sites for land filling after recovering recyclable material.</p>	<p>Solid waste will be collected and segregated at source during construction & operation phase. Wet garbage will be treated in Mechanical composting machine and generated manure is used for the Gardening. Dry solid waste will be disposed of on municipal solid waste management system.</p>
(ii)	<p>E-waste shall be disposed through Authorized vendor as per E-waste (Management and Handling) Rules, 2016.</p>	<p>E-Waste generated from Household will be disposed through authorized vendor.</p>
(iii)	<p>a) The installation of the Sewage Treatment Plant (STP) should be certified by an independent expert and a report in this regard should be submitted to the MPCB and Environment department before the project is commissioned for operation. Treated effluent emanating from STP shall be recycled reused to the maximum extent possible. Treatment of 100% grey water by decentralized treatment should be done. Necessary measures should be made to mitigate the odour problem from STP.</p> <p>b) PP to give 100% treatment to sewage /Liquid waste and explore the possibility to recycle at least 50 % of water, Local authority should ensure this.</p>	<p>STP will be installed. STP will be certified by an independent expert. Sewage will be treated up to tertiary level. The treated sewage will be reused for gardening and flushing purpose.</p> <p>The dual plumbing system will be provided at site to recycle the treated water for flushing purpose</p> <p>The plant will be designed as per standards prescribed by Maharashtra Pollution Control Board.</p> <p>Construction is not started on site.</p>

(iv)	Project proponent shall ensure completion of STP, MSW disposal facility, green belt development prior to occupation of the buildings. As agreed during the SEIAA meeting, PP to explore possibility of utilizing excess treated water in the adjacent area for gardening before discharging it into sewer line No physical occupation or allotment will be given unless all above said environmental infrastructure is installed and made functional including water requirement.	STP, MSW disposal, green belt facility will be provided before the OC.
(v)	The Occupancy Certificate shall be issued by the Local Planning Authority to the project only after ensuring sustained availability of drinking water, connectivity of sewer line to the project site and proper disposal of treated water as per environmental norms.	We agree.
(vi)	Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking should be fully internalized and no public space should be utilized.	Proposed site is accessible by 20.0 m and 30.0 m wide DP Road connected to Kasarvadavali Road. The site is also located at about 6.0 km from Thane Railway Station. Entry & Exit to the project will be located in such way that it won't affect traffic on the adjoining roads. Also, sufficient parking space will be provided for completed buildings.
(vii)	PP to provide adequate electric charging points for electric vehicles (EVs).	We agree
(viii)	Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.	Landscape will be developed considering CPCB guidelines including selection of plant species. The tree species which planted will be of local variety.
(ix)	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards	At present, project head himself is managing environment issues. However, the cell shall be formed and it shall be responsible for necessary environmental safeguards.

(x)	<p>Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise breaks-up. This cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes.</p>	<p>Separate funds are allocated for implementation of environmental protection measures. Break - up of EMP budget is attached</p> <p>The funds for implementation of environmental protection measures/EMP are provided as per planned requirement.</p> <p>Expenditure on EMP will be done as planned. However, year-wise expenditure was not submitted to MPCB & Env. Dept. as the project is not started till date.</p>
(xi)	<p>The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the Marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at http://parivesh.nic.in</p>	<p>Copy of the advertisement is published in two local newspapers</p>
(xii)	<p>A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.</p>	<p>Noted and complied.</p>

(xiii)	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM. SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sector parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	The monitoring Reports are sent with Compliance reports to RO MPCB, Environment Department Mantralaya, RO MoEF & CC, Nagpur.
C). General EC Conditions:-		
(i)	PP has to strictly abide by the conditions stipulated by SEAC& SEIAA.	We agree and complying the conditions stipulated by SEAC & SEIAA.
(ii)	If applicable Consent for Establishment shall be obtained from Maharashtra Pollution Control Board under Air and Water Act, and a copy shall be submitted to the Environment department before start of any construction work at the site.	Consent to Establish is obtained vide letter no - Format1.0/CC/UAN No.0000134683/CE/2206001297 dated. 23.06.2022
(iii)	Under the provisions of Environment (Protection) Act, 1986, legal action shall be initiated against the project proponent if it was found that construction of the project has been started without obtaining environmental clearance.	We have not started the work on site after the receipt of the EC & Consent to Establish.
(iv)	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.	The monitoring reports are sending with Compliance reports to RO of MPCB, Environment Department, Mantralaya & RO MoEF&CC, Nagpur.

(v)	<p>The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.</p>	<p>Six monthly reports regarding the status of compliance of EC conditions are regularly sent to all mandated authorities</p>
(vi)	<p>No further Expansion or modifications, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the SEIAA. In case of deviations or alterations in the project proposal from those submitted to SEIAA for clearance, a fresh reference shall be made to the SEIAA as applicable to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.</p>	<p>We agree</p>
(vii)	<p>This environmental clearance is issued subject to obtaining NOC from Forestry & Wild life angle including clearance from the standing committee of the National Board for Wild life as if applicable & this environment clearance does not necessarily implies that Forestry & Wild life clearance granted to the project which will be considered separately on merit.</p>	<p>Not applicable</p>

(4)	The environmental clearance is being issued without prejudice to the action initiated under EP Act or any court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision under EP Act or of the Hon'ble court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him, if any or action initiated under EP Act.	We understand the issue and shall be abided accordingly
(5)	This Environment Clearance is issued purely from an environment point of view without prejudice to any court cases and all other applicable permissions/ NOCs shall be obtained before starting proposed work at site.	We agree
(6)	In case of submission of false document and noncompliance of stipulated conditions, Authority/ Environment department will revoke or suspend the environmental clearance without any intimation and initiate appropriate legal action under Environmental Protection Act, 1986.	We agree
(7)	Validity of Environment Clearance: The environmental clearance accorded shall be valid as per EIA Notification, 2006, amended time to time.	Noted
(8)	The above stipulations would be enforced among others under the Water (Prevention and control of pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the public Liability Insurance Act, 1991 and its amendments.	Noted

(9)	Any appeal against this environmental clearance shall lie with the National Green Tribunal ,(Western Zone Bench, Pune) ,New Administrative Building, 1 st Floor, D-Wing, Opposite Council Hall, Pune, if preferred ,within 30 days as prescribed under Section 16 of the National Green Tribunal Act ,2010.	Noted
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Annexure - I

PROJECT DETAILS

Name of project : Residential cum Commercial project at plot bearing S. No. 4/1, 4/2, 4/4, 7/5/1A, 105/1, 2, 3, 4, 6, 7/1A, 10, 11, 12, S. No. 6/1, S. NO. 106/1, 2, 3, S. No. 107/1A, 1B, 1C, 2, 3, S. No. 108/3, S. No. 2/34, 38, 39, 40, 41, S. No. 7/10, S. No. 104/1 of Village Vadavali, Tal. & Dist. Thane, Maharashtra

Name of Developer Anant Square

Area Statement:

Sr. No.	Details	Area (m ²)
1.	Total Plot Area	38,006.07
2.	F.S.I. Area	88,104.19
3.	Non F.S.I. Area	1,27,356.03
4.	Total Construction Area	2,15,460.22

Annexure – II

SOLID WASTE MANAGEMENT PLAN

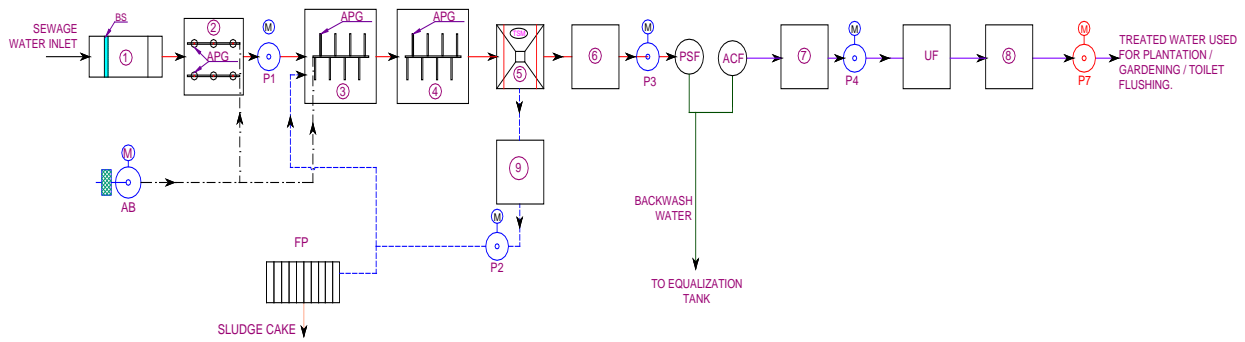
- Wet Garbage: 2,881 kg/day.
- Dry Garbage: 1921 kg/day.
- The biodegradable and non-biodegradable waste will be segregated at source of waste generation. Then this will be separately disposed in municipal waste disposal system.
- Biodegradable garbage will be composted using mechanical composting when project will go operational phase.
- Dry garbage will be segregated & disposed off to recyclers

ANNEXURE III

SEWAGE TREATMENT PLANT

Technology Used: Moving Bed Biofilm Reactor (MBBR)

STP – 1,300 KLD



ANNEXURE IV
WATER BUDGET

Particulars	No of Flats /area	Occupancy	Total Population	Water Requirement Basis (in lpcd)*		Total Water Requirement/ person	Water Demand KLD
				Domestic	Flushing		
Residential Flats	1909	5	9,545	90	45	135	1,289
Commercial area (m2)	1474.77	1 Person / 10 m2	147	25	20	45	7
Total			9,692				1,295
Sewage Generation				90 % of Domestic & 100 % of Flushing Requirement			1,209
Sludge				1 % of Sewage Generation			12
Recycling for Flushing							
Residential Flats	1909	5	9,545		45	45	430
Commercial area (m2)	1474.77	1 Person / 10 m2	147		20	20	2.9
Total			9,692				432
Recycling for Gardening (m ²) & Green Pavers		8,481.2				5l/m ²	92
Nr By Gardens, Avenue Plantation and To Nearby Construction Sites.							250
Excess Treated Water to sewer line							422

ANNEXURE V

Environmental Management Plan - During Construction Phase

Sr. No.	Environmental Components	Predicted Impacts	Probable source of Impact	Mitigation Measures	Remarks
CONSTRUCTION PHASE					
1.	Ambient Air Quality	Negative impact inside construction site premises. No negative impact outside site.	Dust emissions from excavation, air emissions from machinery and other construction activities at site.	Dust reduction measures such as road watering. Periodic maintenance of construction equipment. Use of good quality fuels. Use of Personal Protective Equipment's	Impacts are temporary during construction phase. Impacts will be confined to short distances, as coarse particles will settle within the short distance from activities.
2.	Noise	Negative impact near noise generation sources inside premises. No significant impact on ambient noise levels in the surrounding area.	Noise generated from construction activities and operation of construction equipment and DG sets	Use of well-maintained equipment. Heavy construction activity limited to day-time hours only. Use of noise mufflers in and construction vehicle. Use of earplugs/muffs by construction staff.	Temporary impacts during construction phase. No blasting or other high noise activities envisaged.
3.	Water	No significant negative impact.	Surface runoff from project site. Oil/fuel and waste spills. Improper debris disposal. Discharge of sewage from labour camp.	Silt fences to reduce run-off Secondary containment and dykes in material storage areas. Sewage treatment in septic tanks.	Labour will be employed to reduce size of labour camps. No perennial surface water resource adjacent to site. No excavation work will be done.
4.	Land	Minor negative impact	Excavation, Construction debris, waste from labour camp.	Reutilization and recycling of construction debris Waste from labour camps will be collected and composted on site. Non compostable waste will be transported to landfill site. Topsoil will be conserved and used for landscaping in functional phase.	-
5.	Aesthetics	Minor negative impacts	Construction activities and Excavation	The impacts will be compensated by extensive tree plantation and gardening in the use phase.	Short term impact restricted only in the initial stages of construction.

ANNEXURE VI**EMP COST**

Component	Capital Cost (Rs. In Lakhs)	O & M Cost (Rs. In Lakhs/year)	Frequency
STP (Tertiary)	260	52	Continuous O & M Environment Monitoring: Monthly, STP outlet water quality for pH, BOD, COD, SS, FC, Nitrate, Phosphate and O&G
Solar System	25	1	Weekly
Solid waste management	37	2	Continuous O & M
Rainwater harvesting	120	48	During rainy season (cleaning of SWD, Contour trenches and filtration units before rainy season)
Landscape	85	13	Daily
Environmental Monitoring		3	As per the CPCB guidelines through MoEF&CC approved laboratories
Total Cost	527	119	

Site Photographs

