

SIX MONTHLY COMPLIANCE REPORT

(JAN 2023 – JUN 2023)

Of

Mix Development Project – “Stargaze”

Address-

S. No. Sr. No 76 (P), 77 (P), 77/2, 80, 81 (P), 82, 83 (P), 84 (P), 85/2, 86 (P),
87 (P), 88 at Bavdhan (Bk.), Pune. Maharashtra.

Submitted to

**Maharashtra Pollution Control Board (Mumbai), Environment
Department, Mantralaya and Ministry of Environment and Forests
and Climate Change (Regional Office)**

Submitted by

M/s. Kolte Patil Developers Ltd.

City Bay, 7th Floor, Dhole Patil Road, Pune 411001, Maharashtra, INDIA.

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PART I

Project Details

Sr. No.	Particulars	Details
1	Project type: River- valley/mining /Industry/Thermal/Nuclear/other(specify)	Construction Project
2	Name of the Project	Proposed Residential & commercial Project
3	Clearance letter(s)/OM and Date	Letter No. SEAC-III- 2014/CR 29/TC-29 Date- 10 th December 2015
4	Location	Bavadhan
	a) District(s)	Pune
	b) State(s)	Maharashtra
5	Address of correspondence	M/s Kolte Patil Developers Ltd., 2nd Floor, City Point, Dhole Patil Road, Pune 411001.
	a) address of concerned Project Chief Executive (with pin code & telephone/telex/fax numbers)	M/s Kolte Patil Developers Ltd 2nd Floor, City Point, Dhole Patil Road, Pune 411001.
	b) Address of Executive Project Engineer /Manager (with pin code/fax numbers)	Same as above
6	Breakup of the project area	
	a) submergence area : forest & non-forest	NA
	b) Others	Area 74,321.81 Sq.m. Built-up 1,40,599.03 Sq.m
7	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/	No
	a) SC, ST / Adivasi's	N.A.
8	Financial details:	
	a) Project cost as originally planned and subsequent revised estimates and the year of price reference	Rs.365 Cr.
	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																																											
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(EC Certificate No. SEAC-III-2014/CR-291/TC-3/dt. 10 Dec. 2015)

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PART B - GENERAL CONDITIONS:

For Pre-Construction Phase

Sr. No	Conditions	Remark
I	This environmental clearance is issued subject to utilization of excess treated water.	Noted.
II	This environmental clearance is issued subject to land use verification. Local authority / planning authority should ensure this with respect to Rules, Regulations, Notifications, Government Resolutions, Circulars, etc. issued if any. Judgments/orders issued by Hon’ble High Court, Hon’ble NGT, Hon’ble Supreme Court regarding DCR provisions, environmental issues applicable in this matter should be verified. PP should submit exactly the same plans appraised by concern SEAC and SEIAA. If any discrepancy found in the plans submitted or details provided in the above para may be reported to environment department. This environmental clearance issued with respect to the environmental consideration and it does not mean that state Level Impact Assessment Authority (SEIAA) approved the proposed land use.	Noted.
III	This environment clearance is issued subject to- (a) PP/successor society shall ensure that the treated water shall not be discharged into any river/nalla/water body and if a violation is noticed, the MSEDCL shall disconnect the power supply to the project/society. (b) PP/society shall maintain the storm water drain and ensure that no treated water, sewage or waste is released into the said drain.	Noted.
IV	E-waste shall be disposed through Authorized vendor as per E-waste (Management and Handling) Rules, 2011.	It is construction project since, E-Waste is negligible and We have handed over E-waste to Authorized Vendor M/s. Swachh Seva Sahkari Sanstha Maryadit Pune . For further process.
V	Occupation certificate shall be issued to the project only after ensuring availability of drinking water and connectivity of the sewer Line to the project site.	We have obtained occupancy certificates from PMRDA, Pune for partial project.
VI	STP capacity shall be increased appropriately considering waste water generation	We have provided appropriate capacity (480 KLD) of STP. Details are attached as per

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VII	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.	Not Applicable. The proposed site not located in forest zone.
VIII	PP has to abide by the conditions stipulated by SEAC & SEIAA.	We are abide by the conditions stipulated by SEAC & SEIAA
IX	The height, Construction built up area of proposed construction shall be in accordance with the existing FSI/FAR norms of the urban local body & it should ensure the same along with survey number before approving layout plan & before according commencement certificate to proposed work. Plan approving authority should also ensure the zoning permissibility for the proposed project as per the approved development plan of the area.	Complied, Height, built up area of construction is accordance with the existing FSI /FAR norms. Maximum Heights of Bldgs. – 45 Mtr. Total BUA as per EC – 140599.3 Sq.mtr.
X	“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.	We have obtained Consent to Establish no. Format 1.0/BO/CAC-Cell/UAN No. 0000026267/E/9thCAC-1903001471 on dated 26.03.2019 from MPCB. Copy attached as per Annexure 02
XI	All required sanitary and hygienic measures should be in place before starting construction activities and to be maintained throughout the construction phase.	Complied, we have provided First Aid room facility provided on site.

For Construction Phase:

Sr. No.	Conditions	Remark
I	Provision shall be made for the housing of construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche and First Aid Room etc.	During construction phase, We have provided infrastructure and facilities such as Mobile toilets, First Aid Room, etc. for construction workers.
II	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.	We have provided safe drinking water and sanitary facilities such as mobile toilets, wash basins for safe disposal of waste water and solid wastes.

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III	The solid waste generated should be properly collected and segregated. Dry/inert solid waste should be disposed off to the approved sites for land filling after recovering recyclable material.	During construction phase, generated solid waste was properly collected and segregated. Dry solid waste stored within site for land filling.
IV	Disposal of muck 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 approved sites with the approval of competent authority.	During construction phase, excavated Material and construction waste was stored within project premises and used for land filling, leveling within project site. It was not sent to outside the project premises.
V	Arrangement shall be made that waste water and storm water do not get mixed.	Separate network for storm water and sewerage drain are provided.
VI	All the topsoil excavated during construction activities should be stored for use in horticulture / landscape development within the project site.	All the topsoil form excavated material will be used for horticulture / landscape development within the project site.
VII	Additional soil for levelling 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.	Construction work of part project is completed and we have used additional soil for levelling.
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.	Green Belt is being developed by considering CPCB guidelines/local norms including selection of plant species with the local landscape consultant. Total RG area of 23,408 Sq. Mtr. provided
IX	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.	There is no use of ground water. Soil monitoring report are attached as per Annexure 04
X	Construction spoils, including bituminous material and the dumpsites for such material must be secured so that they should not leach into the ground water.	We are not using any bituminous material/ hazardous material of any type at the site.
XI	Any hazardous waste generated during construction phase should be disposed off as per applicable rules and norms with necessary approvals of the Maharashtra Pollution Control Board.	There is no any hazardous waste was generated during construction phase.
XII	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.	We have provided Acoustic enclosure DG set having capacity of 2 Nos. x 140 KVA. Details are attached as per Annexure 04 & 05

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XIII	The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from concern authority shall be taken.	DG sets are used only during power failure. There is no storage of Diesel at site as on when required we refilled it.
XIV	Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards and should be operated only during non-peak hours.	Vehicles operated during non-peak hours. Standard of construction vehicles was checked regularly including PUC certificate
XV	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.	Ambient Air and noise monitoring reports attached as per Annexure 04
XVI	Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September 1999 and amended as on 27 th August,2003.(The above condition is applicable only if the project site is located within the 100Km of Thermal Power Stations).	We have use Fly Ash as building material in the construction.
XVII	Ready mixed concrete must be used in building construction.	Ready mix concrete is being used.
XVIII	The approval of competent authority shall be obtained for structural safety of the buildings due to any possible earthquake, adequacy of firefighting equipment's etc. as per National Building Code including measures from Lighting.	We have obtained Structural Stability Certificates.
XIX	Storm water control and its re-use as per CGWB and BIS standards for various applications.	We have provided 11 Nos of Rain water Harvesting pits for entire project. Size – 2 M x 0.9 M x 2 M
XX	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.	We are using pre mixed concrete to reduce water demand.
XXI	The ground water level and its quality should be monitored regularly in consultation with Ground water Authority.	NA. There is no use of ground water envisaged in the project area.

(EC Certificate No. SEAC-III-2014/CR-291/TC-3/dt. 10 Dec. 2015)

XXII	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. Discharge of this unused treated effluent, if any should be discharge in the sewer line. Treated effluent emanating from STP shall be recycled/refused to the maximum extent possible. Discharge of this unused treated effluent, if any should be discharge in the sewer line. Treatment of 100% grey water by decentralized treatment should be done. Necessary measures should be made to mitigate the odor problem from STP.	<p>We have provided 480 KLD capacity of Sewage Treatment Plant for processing of sewage water of entire project.</p> <p>Technology – MBBR</p> <p>Units: - Collection tank, equalization tank, Aeration tank (MBBR), intermediate storage tank, PSF, ACF, Ozonator, treated water tank.</p> <p>Disposal- will be used for gardening & flushing.</p> <p>Odour Issue- NA.</p> <p>Details are attached as per Annexure 06</p>
XXIII	Permission to draw ground water and construction of basement if any shall be obtained from the competent Authority prior to construction/operation of the project.	<p>Not Applicable.</p> <p>There is no use ground water for construction work. Source of water is Water Tankers.</p>
XXIV	Separation of grey and black water should be done by the use of dual plumbing line for separation of grey and black water.	During Operational Phase 100 % waste water have been treated in STP. and treated water is recycled for gardening and flushing. we have use dual plumbing line for separation of grey and black water.
XXV	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.	Low flow fixtures are used for showers, toilet flushing and drinking.
XXVI	Use of glass may be reduced up to 40% to reduce the electricity consumption and load on air conditioning. If necessary, use high quality double glass with special reflective coating in windows.	Residential building, use of glass are less than 40%.
XXVII	Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfil requirement.	We have provided appropriate thermal insulation.

(EC Certificate No. SEAC-III-2014/CR-291/TC-3/dt. 10 Dec. 2015)

XXVIII	Energy conservation measures like installation of CFLs/ TFLs for the Lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. Use CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination. Use of solar panels may be done to the extent possible like installing solar street lights, common solar water heaters system. Project proponent should install, after checking feasibility, solar plus hybrid non-conventional energy source as source of energy.	We have used solar water heating system, LED lights for common areas, street lights etc.
XXIX	Diesel power generating sets proposed as sources of backup power for elevators and common area illumination during operation 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. The location of the DG sets may be decided with in consultation with Maharashtra Pollution Control Board.	We have provided acoustic enclosure DG sets having capacity is 2 nos. x 140 KVA. Details are attached as per Annexure 04 & 05
XXX	Noise should be controlled to ensure that it does not exceed the prescribed standards. During night-time the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations.	No noise generating work was carried out during night time. Noise Monitoring reports attached as per Annexure 04
XXXI	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.	There will be provision of two floor internalized parking so, that there is no use of public space.
XXXII	Opaque wall should meet prescriptive requirement as per Energy Conservation Building Code, which is proposed to be mandatory for all air-conditioned spaces while it is aspiration for non-air-conditioned spaces by use of appropriate thermal insulation material to fulfil requirement.	We have provided appropriate thermal insulation for all buildings.
XXXIII	The building should have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation.	We have provided adequate distance as per National Building code for ventilation, Natural light.

(EC Certificate No. SEAC-III-2014/CR-291/TC-3/dt. 10 Dec. 2015)

XXXIV	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.	Regular supervision of the above and other measures for monitoring is being supervised by Project Engineer and qualified supervisors.
XXXV	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 obtained Environment Clearance certificates no. SEAC-III-2014/CR-291/TC-3 on dated 10 Dec. 2015 Copy Attached as per Annexure 01
XXXVI	Six monthly monitoring reports should be submitted to the Regional office MoEF, Bhopal with copy to this department and MPCB.	Six monthly monitoring reports are submitted at Regional office MoEF, Nagpur & MPCB, Mumbai. On dated 09.12.2022 Ack. copy attached as per Annexure 08

For Post-Construction/Operational Phase:

Sr. No	Conditions	Remark
I	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 in Para 2. Prior certification from appropriate authority shall be obtained.	we have provided 480 KLD capacity of Sewage Treatment Plant for processing of sewage water of entire project. Treated water use for gardening & flushing We have provided Organic Waste composter. Properly segregated dry & wet waste was process in the OWC machine and generated compost used for gardening within the site.
II	Wet garbage 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. Local authority should ensure this.	We have provided Organic Waste composter having capacity is 3 Nos. x 250 kg/day Properly segregated dry & wet waste was process in the OWC machine and generated compost used for gardening within the site. Details attached as per Annexure 03
III	Local body should ensure that no occupation certification is issued prior to operation of STP/MSW site etc. with due permission of MPCB.	We have obtained Occupancy certificate from PMC and obtained Consent to Operate No. Format1.0/CC/UAN No.0000117161/CR/2205000749 on dated 12.05.2022 form MPCB. Copy attached as per Annexure 03
IV	A complete set of all the documents submitted to Department should be forwarded to the Local authority and MPCB.	Six monthly monitoring reports are submitted at Regional office MoEF, Nagpur & MPCB, Mumbai. On dated 09.12.2022 Ack. copy attached as per Annexure 08

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V	In the case of any change (s) in the scope of the project, the project would require a fresh appraisal by this Department.	Noted
VI	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	Environmental Management Cell is being supervised by Project Engineer and qualified supervisors.
VII	Separate fund shall be allocated for implementation of environmental protection measures/EMP along with item-wise breaks-up, these 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 and year-wise expenditure should reported to the MPCB & this department.	We are submitting herewith funds allocated for Environmental Management Plan (EMP).
VIII	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://ec.maharashtra.gov.in .	Noted, Already advertisement had been published in local English Mid-Day & Marathi newspaper ‘Prabhat’ Public Notice attached as per Annexure 07
IX	Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1 st June & 1 st December of each calendar year.	Six monthly monitoring reports are submitted at Regional office MoEF, Nagpur & MPCB, Mumbai. On dated 09.12.2022 Ack. copy attached as per Annexure 08
X	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/representation, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	Noted.
XI	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	Yes, noted and implemented.

(EC Certificate No. SEAC-III-2014/CR-291/TC-3/dt. 10 Dec. 2015)

	near the main gate of the company in the public domain.	
XII	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.	Six monthly monitoring reports are submitted at Regional office MoEF, Nagpur & MPCB, Mumbai. On dated 09.12.2022 Ack. copy attached as per Annexure 08
XIII	The environmental statement for each financial year ending 31 st 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.	We are submitting environmental statement report for each financial year. Details attached as per Annexure 09
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.	Noted.
5	In case of submission of false document and non-compliance 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.	Noted.
6	The Environment department reserves the right to add any stringent condition or to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the department or for that matter, for any other administrative reason.	Noted
7	Validity of Environment Clearance: The environmental clearance accorded shall be valid for a period of 7 years as per MoEF & CC Notification dated 29 th April, 2015.	Noted.

(EC Certificate No. SEAC-III-2014/CR-291/TC-3/dt. 10 Dec. 2015)

8	In case of any deviation or alteration in the project proposed from those submitted to this department for clearance, a fresh reference should be made to the department to assess the adequacy of the condition (s) imposed and to incorporate additional environmental protection measures required, if any.	There is no deviation.
9	The above stipulations would be enforced among other 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 & agreed.
10	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 & agreed.

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

SEAC-III-2014/CR-29/TC-3

Environment department

Room No. 217, 2nd floor,

Amexa, Marolayya,

Mumbai- 400 032.

Dated:10th December, 2015.

To,

M/s KolhePatil Developers Ltd

at Village Bavdhan (Bk),

Dist. Pune.

Subject: Environment clearance for proposed Expansion of Project "Rm" at S.No. S. No. 76-1, 77-1+2 (P), 78-1 (P)+2+3 (P) +5 (P)+79-1 (P), +2+3 (P) +4-5 (P) +80-1 (P) +2 (P) +3+81-1 (P) +2+3+4 (P) +82-1 (P) +2+83-1 +2+3 (P) +4+5+(P) +6 +84-1+2 (P)+ 3(P)+85-2 + 86-1 + 3+4+5 (P) +6+7 (P) +8 (P)+87-1+2 (P)+3 +88-1 to 5+91-1+2(P), at Village Bavdhan (Bk), Dist. Pune by M/s.Kolhe - Patil Developers Ltd.

Sir,

This has reference to your communication on the above mentioned subject. The proposal was considered as per the EIA Notification - 2006, by the State Level Expert Appraisal Committee-I-I, Maharashtra in its27th meeting and recommend the project for prior environmental clearance to SEIAA. Information submitted by you has been considered by State Level Environment Impact Assessment Authority in its87th meetings.

2. It is noted that the proposal is considered bySEAC-III under screening category 8(a) B2 as per EIA Notification 2006.

Brief Information of the project submitted by you is as-

1. Name of Project	Star Gaze
2. Project Proponent	Mr. Vijay Sane M/s KolhePatil Developers Ltd,
3. Consultant	Oasis Environmental Foundation
4. Accredited consultant (NABET Accreditation)	QCI NABET Accredited Consultant
5. Type of project/Housing project/Industrial Estate/ SRAscheme/MHADA/ Township/ others	Mix Development Project
6. Location of the Project	S. No. 76-1, 77-1+2 (P), 78-1 (P)+2+3 (P) +5 (P)+79-1 (P), +2+3 (P) +4-5 (P) +80-1 (P) +2 (P) +3+81-1 (P) +2+3+4 (P) +82-1 (P) +2+83-1 +2+3 (P) +4+5+(P) +6 +84-1+2 (P)+ 3(P)+85-2 + 86-1 + 3+4+5 (P) +6+7 (P) +8 (P)+87-1+2 (P)+3 +88-1 to 5+91-1+2(P), BavdhanBudeck,

		Pune.
7.	Whether in Corporation / Municipal / other area	Department of Town Planning, Pune
8.	Applicability of the DCR	Town Planning
9.	ROD/IOA/Concession document or any other form of document as applicable (Clarifying its conformity with local planning rules & provision)	IOA yet to obtain
10.	Note on the initiated work (If applicable)	Work started as per Old EC, dated, 23 rd April, 2015.
11.	LOI/NOCI from MLADA /Other approvals (If applicable)	NA
12.	Total Plot Area (sq. m.) Deductions Net Plot area	Total Plot Area - 74,321.81 sq. m. Deductions - 25,340.43 sq. m. Net Plot Area - 48,981.38 sq. m.
13.	Permissible FSI (including TDR etc.)	1.4
14.	Proposed Built-up Area (FSI & Non-FSI)	<ul style="list-style-type: none"> • FSI Area (Sq.m.) : 70,887.24 Sq. m. • Amenity Area (Sq.m) : 7003.00 Sq.m • Non-FSI Area (Sq.m) : 62,709.06 Sq. m. • Total BUA Area (sq.m.) : 1,40,599.3 Sq. m.
15.	Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	11752 sq m (15.8 %)
16.	Estimated Cost of the Project	INR 365 Cr.
17.	No. of building & its configuration(s)	1. Residential: 11 Buildings (G + Podium/ Stk: 14) 2. Amenity Building: School (G+4) 3. Club Houses: 2 No.
18.	Number of tenants and shops	Residential Tenements: 720 No. School Building: 1 Building
19.	Number of expected residents/users	Residential: 1600 School: 740 Total: 4340
20.	Tenant density per hectare	250/ha
21.	Height of the building(s)	45 m from ground level
22.	Right of way (Width of the road from the nearest fire station to the proposed building(s))	24 m
23.	Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m

24	Existing structure(s)	Constructed area as per n/c EC, dtd. 23 rd April, 2015.
25	Details of the demolition with disposal (if applicable)	NA
26	Total Water Requirement	<p>Residential:</p> <p>Dry season:</p> <p>Source: Bavdhan Grampanchayat</p> <p>Freshwater: 324 KL</p> <p>Recycled water (Flushing): 162 KL</p> <p>Recycled water (Gardening): 140 KL</p> <p>HVAC Makeup: NA</p> <p>Total Water Requirement: 626 KL</p> <p>Excess treated water: 152 KL</p> <p>Swimming Pool: 9 KL</p> <p>Fire Fighting (Cum): 725 KL</p> <p>Wet Season:</p> <p>Freshwater: 324 KL</p> <p>Recycled water (Flushing): 162 KL</p> <p>Recycled water (Gardening): NA</p> <p>HVAC Makeup: NA</p> <p>Total Water Requirement: 486 KL</p> <p>Excess treated water: 292 KL</p> <p>Swimming Pool: 9 KL</p> <p>Fire Fighting (Cum): 725 KL</p> <p>School Building:</p> <p>Dry season:</p> <p>Source: Bavdhan Grampanchayat</p> <p>Freshwater: 11 KL</p> <p>Recycled water (Flushing): 22 KL</p> <p>Recycled water (Gardening): Considered in Residential</p> <p>HVAC Makeup: NA</p> <p>Total Water Requirement: 33 KL</p> <p>Excess treated water: 10 KL</p> <p>Swimming Pool: Considered in Residential</p> <p>Fire fighting (Cum): Considered in Residential</p> <p>Wet Season:</p> <p>Freshwater: 11 KL</p> <p>Recycled water (Flushing): 22 KL</p> <p>Recycled water (Gardening): NA</p> <p>HVAC Makeup: NA</p> <p>Total water Requirement: 33 KL</p> <p>Excess treated water: 10 KL</p> <p>Swimming Pool: Considered in Residential</p> <p>Fire fighting (Cum): Considered in Residential</p>
27	Details about Swimming Pool:	<p>Dimensional Swimming Pool:</p> <p>Main Pool Size : 254 Sqm</p> <p>Baby Pool size : 58 Sqm</p> <p>Total water Requirement: 307 KL</p> <p>Water requirement for make up: 9 KLD</p>

		<p>Details of Plant & Machinery used for treatment of Swimming pool water. The filtration system comprises of skimmers, floor drains, hair and lint strainers, pump, multi-port valve, high rate sand filter and flow meters</p> <p>Disinfection:</p> <ol style="list-style-type: none"> 1. Chlorine Daily basis 2. Alum Once a fortnight 3. Soda Ash/Acid Once in a while to correct the pH if required <p>Details of quality to be achieved for swimming pool water and parameters to be monitored:</p> <table border="1"> <thead> <tr> <th>Sl. No.</th><th>Characteristics</th><th>Values</th></tr> </thead> <tbody> <tr> <td>1</td><td>pH Value</td><td>7.5 to 8.5</td></tr> <tr> <td>2</td><td>Total alkalinity (as CaCO₃), mg/l</td><td>50 to 100</td></tr> <tr> <td>3</td><td>Aluminium (As Al), mg/l</td><td>0.1</td></tr> <tr> <td>4</td><td>Total residual chlorine, mg/l</td><td></td></tr> <tr> <td>5</td><td>a) Inlet max</td><td>0.5</td></tr> <tr> <td>5</td><td>b) Outlet min</td><td>0.2</td></tr> <tr> <td>7</td><td>Total dissolved solids, mg/l</td><td>1500</td></tr> <tr> <td>8</td><td>Chlorides (as Cl), mg/l</td><td>500</td></tr> <tr> <td>9</td><td>Colour, Hazen Units</td><td>10</td></tr> <tr> <td>10</td><td>Turbidity, NTU</td><td>10</td></tr> <tr> <td>11</td><td>Coliforms (MPN)</td><td><10 per 100 ml</td></tr> </tbody> </table>	Sl. No.	Characteristics	Values	1	pH Value	7.5 to 8.5	2	Total alkalinity (as CaCO ₃), mg/l	50 to 100	3	Aluminium (As Al), mg/l	0.1	4	Total residual chlorine, mg/l		5	a) Inlet max	0.5	5	b) Outlet min	0.2	7	Total dissolved solids, mg/l	1500	8	Chlorides (as Cl), mg/l	500	9	Colour, Hazen Units	10	10	Turbidity, NTU	10	11	Coliforms (MPN)	<10 per 100 ml
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28.	Rain Water Harvesting (RWH)	<p>Level of the Ground water table: 12m</p> <p>Size and no of RWH tank(s) and Quantity: NA</p> <p>Capacity of RWH tanks: NA</p> <p>Location of the RWH tank(s):</p> <p>No of recharge pits: Pits Size : (2.0 M length x 0.9 M width x 2.0 M. depth)</p> <p>Recharge Pits – 11 No.</p> <p>Budgetary allocation (Capital cost and O&M cost):</p> <p>Capital cost: 4,40,000/-</p> <p>O&M cost: 20,000/-</p>																																				
29.	UGT tanks	<p>Residential:</p> <p>Treated water storage tank: 2,58,945 lit</p> <p>Raw Water storage tank: 2,58,945 Lit</p> <p>First UG tank Capacity: 7,25,000 Lit</p> <p>Total UGT Capacity: 1241000 Lit</p> <p>School:</p> <p>Treated water storage tank: 8325 Lit.</p> <p>Raw Water storage tank: 8325 Lit</p> <p>Total UGT Capacity: 16650</p>																																				
30.	Storm water drainage	<p>Natural water drainage pattern: As per contour</p>																																				

		<ul style="list-style-type: none"> • quantity of storm water : 38566 KL • Size of SWD: Internal Storm water drainage line of 200-1200 mm
31.	Sewage and Waste water	<p>Residential:</p> <p>Sewage generation (CMD): 454</p> <p>Capacity of STP (CMD): 465</p> <p>STP technology: FAB</p> <p>School:</p> <p>Sewage generation (CMD): 32</p> <p>Capacity of STP (CMD): 35</p> <p>STP technology: FAB</p> <p>DC sets (during emergency): 100 % back up</p> <p>Budgetary allocation (Capital cost and O&M cost):</p> <p>Capital cost : 52,00,000/-</p> <p>O&M cost : 18,00,000/- (p.a.)</p>
32.	Solid waste Management	<p>Waste generation in the pre Construction and Construction phase</p> <p>Quantity of top soil to be preserved: 1,28,000 CUM</p> <p>Disposal of pre construction and debris: Land filling on the same site</p> <p>Waste generation in the operation phase</p> <p>Residential & commercial:</p> <p>Biodegradable waste: 1063 Kg/day</p> <p>Non-Biodegradable waste: 704 Kg/day</p> <p>E-waste: Negligible</p> <p>STP sludge: 70 Kg /day</p> <p>Mode of Disposal of waste:</p> <p>Dry waste: Through private recyclers</p> <p>Wet waste: Mechanical Composter</p> <p>STP Sludge (Dry sludge): Digested and used as Manure</p> <p>Area requirement:</p> <ol style="list-style-type: none"> 1. Location(s): Plan Enclosed. 2. Total area provided for the storage & treatment of the solid waste: 140 Sq. m. 3. Budgetary allocation (capital Cost & O&M cost): <p>Capital Cost (In Rs.): 10,00,000/-</p> <p>O&M cost (In Rs.): 13,00,000/-</p>
33.	<p><i>Green Belt Development</i></p> <p>Total RG Area: 23,408 Sqm (21%)</p> <ol style="list-style-type: none"> 1. RG area other than green belt: 15577.13 sqm 2. RG area under green belt: 7830.87 Sqm <p>RG on the ground: 7830.87 Sqm</p> <p>RG on the podium: nil</p> <p>Number & list of trees species to be planted in the ground RG: 1017 trees</p>	

List of Proposed Plantation for the scheme:

	Botanical Name	Common Name	Quantity	Characteristics & Ecological Importance
1	<i>Artocarpus integrus</i>	Jack Fruit tree	14	Good for screening, evergreen.
2	<i>Azadirachta indica</i>	Neem	60	attracts birds, attracts bees, insects and mosquito repellent, good for screening, good for shade, quick growing, evergreen.
3	<i>Caryota urens</i>	Fish tail palm	45	Auspicious, attracts birds, attracts butterflies, and attracts bees, good for screening, quick growing, evergreen.
4	<i>Cassia fistula</i>	Bahava	84	Auspicious, attracts birds.
5	<i>Dalbergia sissoo</i>	Shisam	55	Attracts bees, good for screening, good for shade, quick growing.
6	<i>Khaya senegalensis</i>	Khaya	92	Timber useful, medicinal value. Attracts birds, good for shade.
7	<i>Lagerstromia speciosa</i>	Tahman	74	Good for screening, good for shade, attracts butterflies, attracts bees.
8	<i>Madhucadaniifolia</i>	Moha	94	Indian tropical tree, flower is edible and is a food item for tribals, medicinal value. Fragrant flowers, good for shade.
9	<i>Minuosopsalangi</i>	Bakul	112	Medicinal, used in the treatment and maintenance of oral hygiene, Bird attracting, flowering tree, fragrant flowers, auspicious, good for screening, good for shade, attracts bees, evergreen.
10	<i>Plumeria rubra</i>	Temple tree	62	Flowering plant, fragrant flowers, auspicious, good for screening, good for shade, attracts birds, attracts bees, quick growing, evergreen.
11	<i>Phoenix sylvestris</i>	Wild date palm	54	Fruit bearing tree, Bird attracting.
12	<i>Pongamia pinnata</i>	Karanj	85	Medicinal plant, good for screening, good for shade.
13	<i>Sterculia foetida</i>	Indian Almond	57	Good for shade, attracts birds, attracts bees, quick growing.
14	<i>Terminalia neriifolia</i>	Mini Badam	76	Good for screening, good for shade, attracts birds, attracts bees, quick growing.
15	<i>Terminalia catappa</i>	Badam	35	Edible fruit, Medicinal, good for screening, good for shade, attracts birds, attracts bees, quick growing.
Total No. of Trees to be planted			1007	

Number & list of shrubs & bushes species planted in the podiums RG:

Sr. No.	Botanical Name
---------	----------------

	<i>Isoragococcinea</i>
	<i>Agaveanthus africanus (Blue)</i>
	<i>Bougainvillea dwarf</i>
	<i>Crinum asiaticum</i>
	<i>Isoragococcinea (White)</i>
	<i>Zephyranthes rosea</i>
	<i>Verbena bonariensis</i>
	<i>Yucca filamentosa</i>
	<i>Jacobsenia maritima</i>

Number&listtrees species tobe plantedaroundthebordersofmainish/steamp/pool(if any): NA

No.ofExistingTrees: 16 No.

Budgetaryallocation(capitalCost&O&MCost):

CapitalCost: 1,75,00,000/-

O&M: 20,00,000/- p.a.

34. Energy

PowerSupply:

Totalpowerconsumptionfor residentialbuildings

Source of Supply: MSEDCCL

Total Connected Load : 5772 KW

Total Demanded load: 2463 KW

Transformers: 630 KVA X 12 Nos.

DG Sets: 160 KVA X 3 No

Fuel Requirement (Diesel at 75 % loading)- 32 Lit/hr

Totalpowerconsumptionfor club

housesandcommercialbuildings: Considered in Residential

EnergySavingmeasures

Use of 15-28W, CFL lamps shall be used for Common area lighting

Use of non conventional energy i.e. Solar water heating system

Transformers are located close to load center to minimize transmission losses

ThefollowingEnergyConservationMethods are proposedinthe project:

Solar Water System, Solar PV lighting

Detailedcalculations & 8-10%of saving:

Compliance of the ECBC guidelines: (Yes / No) (If yes then submit compliance in tabular form):

Compliance with Energy Conservation Building Code (ECBC) 2007

Section No.	Requirement	Compliance
7.2	Lighting controls occupancy/time	Parking area lighting will be controlled

	7.2.1.4	switch	through a switch with alternate switching
	7.2.1.4	Exterior lighting to be controlled by photo sensor or time switch	External lighting will be controlled through timer
	7.3	Interior lighting power to be within specified limits	All light in common open area will be ceiling mounted. It illuminates the required area only.
	7.4	Exterior lighting power to be within specified limits	All lights will be with bracket or arm, so no extra light will be cross the boundary limit.
	8.2.1.1	Maximum allowable power loss from transformer	Shall be used energy efficient transformers as per ECBC Norms.
	8.2.2	Energy efficient motors	For the common area all motors will be energy efficient as per ECBC.
	8.2.3	Power factor be maintained between 0.95 and unity	We will use capacitor bank for common areas load to maintain power factor.
	8.2.5	Power distribution system losses to be maintained less than 1%	We will consider low wall loss type MCB in all distribution system.
Budgetary allocation (Capital Cost & O & M Cost): Capital Cost: 75,60,000/- O & M: 1,00,000/- p.a. Number and capacity of the DGI sets to be used: 160 KVA X 3 Nos. Stack Height: 2 Mtrs. IIT line passing through the plot if any: N/A			
35	Environmental Management plan Budgetary Allocation: During Construction Phase (with Break up): Capital cost O & M cost (Please ensure manpower and other details)		
	Sr. No.	Particulars	Cost (INR/month)
		Erosion control: Dust suppression measures & sand casting	5 lakh lump sum
		Site Safety	Rs.1.5lakh per month for security. Rs.1lakh/yr for safety of staff and

		signage etc. Cost of safety during construction will be borne by contractor which will be part of construction cost (2.0lakh per month)
	Site Sanitation	15 lakh lump Sum(Toilets, Urinals, water supply etc)
	Disinfection & health check up	1.0 lakh per year
	Environmental Monitoring	1,00,000/-per year (Water, air, Noise)

During Operation Phase (with Break up):

Capital cost

O & M cost (Please ensure manpower and other details)

Sr. No.	Particular	Capital cost (INR)	O & M Cost (INR/annum)
1	Sewage treatment Plant	52,00,000/-	18,00,000/-
2	Rain Water Harvesting	4,40,000/-	20,000/-
3	Storm Water Network	30,00,000/-	1,50,000/-
4	Solid Waste Management	10,00,000/-	13,00,000/-
5	Green Belt Development	1,75,00,000/-	20,00,000/-
6	Swimming Pool	65,00,000/-	1,50,000/-
7	Solar Water heater	75,60,000/-	1,00,000/-
8	Solar PV Cells	30,00,000/-	3,00,000/-
9	Environmental Monitoring	1,00,000/-	1,60,000/-
10	Safety training & awareness	10,00,000/-	--
Total		4,53,00,000/-	59,80,000/-

Traffic Management

No. of junction to the main road and design of confluence:

Plot Area: 17,500.00 Sqm

Parking Details:

Sr. No.	Type	Applicable no of parking As per DCR	Provided parking
1.	2 Wheeler	1936	1936
2.	4 Wheeler	976	976
3.	Cycles	1936	1936
4.	Public Transport 5%		

Total area provided for parking:

Sr. No.	Parking Area Provision	Area As per MoEF	No. Required	No. Provided	Area Required	Area Provided
1	Covered Parking Area for Car including drive way	30	712	712	21360	21360
2	Covered Parking Area for 2 Wheeler including driveway	3	950	950	2850	2850
3	Open Parking Area for Car	25	264	264	6600	6600
4	Open Parking Area for 2 Wheeler	3	986	986	2958	2958
5	Open Parking for Bicycles	1.4	950	950	1330	1330
6	Total provided Parking area (covered + open)				35098	35098

No. of car parking provided:976

Type of parking (Open/Stilt/Basement)

Open: 264

Stilt: 712

Area per car including driveway provided for car parking: 30 sq.m per car

Width of all internal roads: 6.00 & 9.00 m.

2. The proposal has been considered by SELAA in its 87th meeting & decided to accord environmental clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implementation of the following terms and conditions:

General Conditions for Pre- construction phase:-

- (i) This environmental clearance is issued subject to utilization of excess treated water.
- (ii) This environmental clearance is issued subject to land use verification. Local authority / planning authority should ensure this with respect to Rules, Regulations, Notifications, Government Resolutions, Circulars, etc. issued if any. Judgments/orders issued by Hon'ble High Court, Hon'ble NCT, Hon'ble Supreme

Court regarding DCR provisions, environmental issues applicable in this matter should be verified. PP should submit exactly the same plans appraised by concern SEAC and SELAA. If any discrepancy found in the plans submitted or details provided in the above para may be reported to environment department. This environmental clearance issued with respect to the environmental consideration and it does not mean that State Level Impact Assessment Authority (SELAA) approved the proposed land use.

- (iii) This environment clearance is issued subject to (a) PP/successor society shall ensure that the treated water shall not be discharged into any river/nalla/water body and if a violation is noticed, the MSIEDCL shall disconnect the power supply to the project / society. (b) PP / Society shall maintain the storm water Drain and ensure that no treated water, sewage or waste is released into the said drain
- (iv) E-waste shall be disposed through Authorized vendor as per E-waste (Management and Handling) Rules, 2017.
- (v) Occupation certificate shall be issued to the project only after ensuring availability of drinking water and connectivity of the sewer line to the project site.
- (vi) STP capacity shall be increased appropriately considering waste water generation.
- (vii) 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.
- (viii) PP has to abide by the conditions stipulated by SEAC& SELAA.
- (ix) The height, Construction built up area of proposed construction shall be in accordance with the existing TSPAR norms of the urban local body & it should ensure the same along with survey number before approving layout plan & before recording commencement certificate to proposed work. Plan approving authority should also ensure the zoning permissibility for the proposed project as per the approved development plan of the area.
- (x) "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.
- (xi) All required sanitary and hygienic measures should be in place before starting construction activities and to be maintained throughout the construction phase.

General Conditions for Construction Phase-

- (i) Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche and First Aid Room etc.
- (ii) 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.

- (iii) The solid waste generated should be properly collected and segregated. dry/inert solid waste should be disposed off to the approved sites for land filling after recovering recyclable material.
- (iv) Disposal of muck 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 approved sites with the approval of competent authority.
- (v) Arrangement shall be made that waste water and storm water do not get mixed.
- (vi) All the topsoil excavated during construction activities should be stored for use in horticulture / landscape development within the project site.
- (vii) 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.
- (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.
- (ix) 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.
- (x) Construction spoils, including bituminous material and other hazardous materials must not be allowed to contaminate watercourses and the dumpsites for such material must be secured so that they should not leach into the ground water.
- (xi) Any hazardous waste generated during construction phase should be disposed off as per applicable rules and norms with necessary approvals of the Maharashtra Pollution Control Board.
- (xii) The diesel generator sets to be used during construction phase should be low sulphur diesel type and should conform to Environment (Protection) Rules prescribed for air and noise emission standards.
- (xiii) The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from concern authority shall be taken.
- (xiv) Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards and should be operated only during non-peak hours.
- (xv) 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.

- (xvi) Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September 1999 and amended as on 27th August, 2003. (The above condition is applicable only if the project site is located within the 100km of Thermal Power Stations)
- (xvii) Ready mixed concrete must be used in building construction.
- (xviii) The approval of competent authority shall be obtained for structural safety of the buildings due to any possible earthquake, adequacy of fire fighting equipments etc. as per National Building Code including measures from lightning.
- (xix) Storm water control and its re-use as per CGWB and BIS standards for various applications.
- (xx) Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
- (xxi) The ground water level and its quality should be monitored regularly in consultation with Ground Water Authority.
- (xxii) 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. Discharge of this unused treated effluent, if any should be discharge in the sewer line. Treated effluent emanating from STP shall be recycled/reused to the maximum extent possible. Discharge of this unused treated effluent, if any should be discharge in the sewer line. Treatment of 100% gray water by decentralized treatment should be done. Necessary measures should be made to mitigate the odour problem from STP.
- (xxiii) Permission to draw ground water and construction of basement if any shall be obtained from the competent Authority prior to construction/operation of the project.
- (xxiv) Separation of gray and black water should be done by the use of dual plumbing line for separation of gray and black water.
- (xxv) 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.
- (xxvi) Use of glass may be reduced up to 40% to reduce the electricity consumption and load on air conditioning. If necessary, use high quality double glass with special reflective coating in windows.
- (xxvii) Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill requirement.
- (xxviii) Energy conservation measures like installation of CFLs / TFLs for the lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. Use CFLs and TFLs should be properly collected and disposed off sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination. Use of solar panels may

be done to the extent possible like installing solar street lights, common solar water heaters system. Project proponent should install, after checking feasibility, solar plus hybrid non conventional energy source as source of energy.

- (xxix) Diesel power generating sets proposed as source of back up power for elevators and common area illumination during operation 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. The location of the DG sets may be decided with in consultation with Maharashtra Pollution Control Board.
- (xxx) Noise should be controlled to ensure that it does not exceed the prescribed standards. During nighttime the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations.
- (xxxi) 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.
- (xxxii) Opaque wall should meet prescriptive requirement as per Energy Conservation Building Code, which is proposed to be mandatory for all air-conditioned spaces while it is aspiration for non-air-conditioned spaces by use of appropriate thermal insulation material to fulfil requirement.
- (xxxiii) The building should have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation.
- (xxxiv) 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.
- (xxxv) 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.
- (xxxvi) Six monthly monitoring reports should be submitted to the Regional office MoEF, Bhopal with copy to this department and MPCB.

General Conditions for Post- construction/operation phase-

- (i) 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 in Para 2. Prior certification from appropriate authority shall be obtained.
- (ii) Wet garbage 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. Local authority should ensure this.

- (iii) Local body should ensure that no occupation certification is issued prior to operation of STP/MSW site etc. with due permission of MPCB.
- (iv) A complete set of all the documents submitted to Department should be forwarded to the Local authority and MPCB.
- (v) In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Department.
- (vi) A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
- (vii) Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise break-up. These 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 and year-wise expenditure should be reported to the MPCB & this department.
- (viii) 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://www.maharashtra.gov.in>.
- (ix) Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1st June & 1st December of each calendar year.
- (x) 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.
- (xi) 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 SPCL. The criteria pollutant levels namely, SPM, RSPM, SO₂, 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.
- (xii) 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 SPCL.
- (xiii) 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 MuEF by e-mail.

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.
5. In case of submission of false document and non compliance 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
6. The Environment department reserves the right to add any stringent condition or to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the department or for that matter, for any other administrative reason.
7. **Validity of Environment Clearance:** The environmental clearance accorded shall be valid for a period of 7 years as per MoEF&CC Notification dated 29th April, 2018.
8. In case of any deviation or alteration in the project proposed from those submitted to this department for clearance, a fresh reference should be made to the department to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.
9. 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.
10. Any appeal against this environmental clearance shall lie with the National Green Tribunal (Western Zone Bench, Pune), New Administrative Building, 1st Floor, D-1 Wing, Opposite Council Hall, Pune, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.


(Mahesh Shankar)
Member Secretary, S&IAA

Copy to:

1. Shri. R. C. Joshi, IAS (Retd.), Chairman, SELAA, Flat No. 26, Belvedere, Dhulabhaikesai road, Breach candy, Mumbai- 400026.
2. Shri. Jagdish Joshi, (Chairman, IAS (Retd.), SEAC-III, Flat no. 2, Tahiti chs. Juhu Versova Link Road Andheri (W), Mumbai- 400 053.
3. Additional Secretary, MOEF, MoEF& CC, Indira Paryavaran Bhavan, Jorbagh Road, Aliganj, New Delhi-110003.
4. The CCF, Regional Office, Ministry of Environment and Forest (Regional Office, Western Region, Kendriya Paryavaran Bhavan, Link Road No- 3, S-5, Ravi-Shankar Nagar, Bhopal- 462 016), (MP).
5. EA- Division, Monitoring Cell, MoEF& CC, Indira Paryavaran Bhavan, Jorbagh Road, Aliganj, New Delhi-110003.
6. Managing Director, MSEDCL, MG Road, Fort, Mumbai
7. Collector, Pune.
8. Member Secretary, Maharashtra Pollution Control Board, with request to display a copy of the clearance.
9. Regional Office, MPCB, Pune.
10. Select File (TC-3)

(EC uploaded on 18/12/2015)

MAHARASHTRA POLLUTION CONTROL BOARD

Tel: 24010706/ 24010437
Fax: 24023516
Website: <http://mpcb.gov.in>
E-mail: cac-cell@mpcb.gov.in



Kalpateru Point, 2nd - 4th Floor
Opp. Cine Planet Cinema,
Near Sion Circle, Sion (E)
Mumbai-400 022.

Consent order No. Format 1.0/BO/CAC-Cell/UAN No. 0000026267/E/9th CAC-1903001471
Date-26/03/2019

To,
M/s Kolte Patil Developers Ltd.,
Mix Development Project "Stargaze",
Village Bavdhan (Bk), Dist. Pune - 411 021.

Subject: Grant of Consent to Establish for development of Mix Development Project "Stargaze" in Red Category.

Ref.: 1. Environment Clearance accorded by Environment Dept. vide No. SEAC-III-2014/CR-291/TC-3 dtd. 10.12.2015.

2. Minutes of Consent Appraisal Committee meeting held on 27/03/2018.

Your application No. 0000026267 Dated 05/05/2017.

For: grant of Consent to Establish under Section 25 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Rule 6 of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II, III & IV annexed to this order:

1. The Consent to Establish is valid for period up to commissioning of the project or up to 5 years i.e. 31/03/2023 whichever is earlier.
2. The capital investment of the project is Rs. 365 Crs (As per C.A. Certificate submitted by project proponent).
3. The Consent to Establish is valid for the development of Mix Development Project "Stargaze" of M/s Kolte Patil Developers Ltd. at plot bearing S. Nos. 76-1, 77-1+2, 78-1(P)+2+3(P)+5(P)+79-1(P)+2+3(P)+4+5(P)+80-1(P)+2(P)+3+81-1(P)+2+3+4(P)+82-1(P)+2+83 1+2+3(P)+4+5+1(P)+6+84-1+2(P)+3(P)+85-2+86-1+3+4+5(P)+6+7(P)+8(P)-1+2(P)+3+88-1 to 5+91-1+2(P), at village Bavdhan (Bk), Dist. Pune - 411 021 on total plot area of 74,321.81 Sq. Mtrs. for total construction BUA of 1,40,599.3 Sq. Mtrs. as per Environmental Clearance including utilities and services.

4. Conditions under Water (P&CP), 1974 Act for discharge of effluent:

Sr. no.	Description	Permitted quantity of discharge (CMD)	Standards to be achieved	Disposal
1.	Trade effluent	NIL	NA	NA
2.	Domestic effluent	486	As per Schedule-I	The treated domestic effluent shall be 60% recycled for secondary purposes and remaining shall be utilized on land for gardening.

5. Conditions under Air (P&CP) Act, 1981 for air emissions:

Sr. No.	Description of stack/ source	Number Of Stack	Standards to be achieved
1	DG set (3x160 KVA)	3	As Per Schedule-II



6. Conditions under Solid Waste Management Rule, 2016:

Sr. no.	Type Of Waste	Quantity	Treatment	Disposal
1	Biodegradable	1,063 Kg/day	Will be treated in CWC	Used as Manure
2	Non -Biodegradable	704 Kg/day	—	Segregate and Hand over to Local Body for recycling
3	STP Sludge	70 Kg/D		Used as Manure and gardening

7. Conditions under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 for treatment and disposal of hazardous waste:

Sr. No.	HW Cat. & Type Of Waste	Quantity	UOM	Treatment	Disposal
1	5.1 – Used/ Spent Oil	As actual	Ltrs/A	—	Sale to Auth. Party/ Re-processor

- The Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
- This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government authorities.
- Project Proponent shall submit an affidavit in prescribed format regarding compliance of conditions of Environment Clearance and Consent to Establish Condition.
- Project Proponent shall achieve the treated domestic effluent standard for the parameter BOD - 10 mg/lit.
- The treated effluent shall be 60% recycled for secondary purposes such as toilet flushing, air conditioning, cooling tower, make up, firefighting etc. and remaining shall be utilized on land for gardening.
- Project Proponent shall install online monitoring system for BOD, TSS and flow at the outlet of Sewage Treatment Plant.
- Project Proponent shall submit Bank Guarantee of Rs.25 lakh towards compliance of Environment Clearance and Consent to Establish condition.
- Project Proponent shall install organic waste digester along with composting facility/ bio-digester (biogas) with composting facility for the treatment of wet garbage.

For and on behalf of the
Maharashtra Pollution Control Board



Received Consent fee of –

Sr. No.	Amount	DR/ DD/ RTGS/ NEFT/ TXN No.	Bank Name	Date
1	Rs. 7,30,000/-	0194736	Axis Bank	19/08/2017

Copy to:

- Regional Officer(Pune)/ SUB-Regional Officer (Pune-II), M.P.C. Board.
-They are directed to ensure the compliance of the consent conditions.
- Chief Accounts Officer, MPCB, Mumbai.
- CC/CAC desk- for record & website updating purposes.

Schedule-I

Terms & conditions for compliance of Water Pollution Control:

- 1) A) As per your application, you have proposed to provide 2 Nos. of Sewage Treatment Plants of total capacity 500 CMD (465 CMD + 35CMD) with FAB technology for the treatment 465 CMD of domestic sewage.
- B) The Applicant shall operate the Sewage Treatment Plant (STP) to treat the sewage so as to achieve the following standards/ prescribed under EP Act, 1986 and Rules made there under from time to time, whichever is stringent:

Sr. No.	Parameters	Standards prescribed by Board
		Limiting Concentration in mg/l, except for pH
01	BOD (3 days 27°C)	10
02	Suspended Solids	20
03	COD	50
04	Residual Chlorine	1 ppm

- C) The treated domestic effluent shall be 60% recycled for secondary purposes such as toilet flushing, air conditioning, cooling tower make up, firefighting etc. and remaining shall be utilized on land for gardening. In no case, effluent shall find its way to any water body directly/indirectly at any time. Project proponent shall provide flow meter to ensure 60% recycling of treated sewage and shall maintain the record with data logging system.
- 2) The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system and/ or extension or addition thereto.
- 3) The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.
- 4) The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Act, 1974 and as amended, and other provisions as contained in the said act.

1.	Industrial Cooling, spraying in mine pits or boiler feed	0.00
2.	Domestic purpose	559
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	0.00
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	0.00



Schedule-II

Terms & conditions for compliance of Air Pollution Control:

1. As per your application, you have proposed to installed the Air pollution control (APC) system and also erected following stack (s) and to observe the following fuel pattern-

Sr. No.	Stack Attached To	APC System	Height in Mtrs.	Type of fuel	Quantity & Unit	SO ₂
01	D.G. Set (3x160 KVA)	Acoustic Enclosure	2 mtrs. each above roof	HSD	32 Ltrs/hr each	13 Kg/D (each)

* Above roof of the building in which it is installed.

2. The applicant shall operate and maintain above mentioned air pollution control system, so as to achieve the level of pollutants to the following standards:

Total Particulate matter	Not to exceed	150 mg/Nm ³
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3. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement alteration well before its life come to an end or erection of new pollution control equipment.
4. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).



Schedule-III
Details of Bank Guarantees

Sr. No.	Consent (C to E)	Amount Imposed	Bank	Submission Period**	Purpose of BG	Compliance Period	Validity
1	C to E	Rs.25 Lakh		Within 15 days	Towards compliance of the EC & Consent conditions	31/03/2023	31/07/2023

* The above Bank Guarantee(s) shall be submitted by the applicant in favour of Regional Officer at the respective Regional Office within 15 days of the date of issue of Consent.



Schedule-IV

Conditions during construction phase:

a	During construction phase, applicant shall provide temporary sewage disposal and MSW facility for staff and worker quarters.
b	During construction phase, the ambient air and noise quality should be closely monitored to achieve Ambient Air Quality Standards and Noise by the project proponent through MoEF&CC approved laboratory.
c	Noise should be controlled to ensure that it does not exceed the prescribed standards. During nighttime the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations.

General Conditions:

- 1) The applicant shall provide facility for collection of samples of sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
- 2) The firm shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act, 1981 and Environmental Protection Act 1986 and Solid Waste Management Rule 2016, Noise (Pollution and Control) Rules, 2000 and E-Waste Management & Handling Rule 2011.
- 3) Drainage system shall be provided for collection of sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No sewage shall be admitted in the pipes/sewers downstream of the terminal manholes. No sewage shall find its way other than in designed and provided collection system.
- 4) Vehicles hired for bringing construction material to the site should be in good condition and should conform to applicable air and noise emission standards and should be operated only during non-peak hours.
- 5) Conditions for D.G. Set
 - a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
 - b) Applicant should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
 - c) Applicant should make efforts to bring down noise level due to DG set, outside their premises, within ambient noise requirements by proper siting and control measures.
 - d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
 - e) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.
 - f) D.G. Set shall be operated only in case of power failure.
 - g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
 - h) The applicant shall comply with the notification of MoEF dated 17.05.2002 regarding noise limit for generator sets run with diesel.
- 6) **Solid Waste** - The applicant shall provide onsite municipal solid waste processing system & shall comply with Solid Waste Management Rule 2016 & e-Waste (M & H) Rule 2011.
- 7) Affidavit Undertaking in respect of no change in the status of consent conditions and compliance of the consent conditions the draft can be downloaded from the official web site of the MPCB.
- 8) Applicant shall submit official e-mail address and any change will be duly informed to the MPCB.
- 9) The treated sewage shall be disinfected using suitable disinfection method.
- 10) The firm shall submit to this office, the 30th day of September every year, the environment statement report for the financial year ending 31st March in the prescribed Form-V as per the provision of rule 14 of the Environmental Protection Second Amended rule 1992.
- 11) The applicant shall obtain Consent to Operate from Maharashtra Pollution Control Board before commissioning of the project.

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MAHARASHTRA POLLUTION CONTROL BOARD

Tel: 24010706/24010437
Fax: 24023516
Website: <http://mpcb.gov.in>
Email: cac-cell@mpcb.gov.in



Kalpataru Point, 2nd and
4th floor, Opp. Cine Planet
Cinema, Near Sion Circle,
Sion (E), Mumbai-400022

Infrastructure/RED/L.S.I

No:- Format1.0/CC/UAN No.0000117161/CR/2205000749

Date: 12/05/2022

To,

" Stargaze"named as M/s. Kolte Patil

Development ,

Mix Development Project "Stargaze",S.

No. 76/1, 77/1+2(p), 78/1(p)+ 2+3(p)

+5(p)+79/1(p) +2+3(p)

+4+5(p)+81/1(p)+2+3+4(p)+ 82/1(p)+2+

83/1+2 +3(p) +4+5(p) +6(p)

+84/1+2(p)+3(p)+85/2 +86/1+3+4+5(p)

+6+7(p) +8(p) +87/1+2(p)+3+88/1 to

5+91/1+2(p), village Bhavdhan(Bk), Tal

Mulshi, Dist Pune



Your Service is Our Duty

Sub: Renewal of consent to operate(Part-I) for mix development project

- Ref:**
1. Consent to establish granted vide No Format1.0/BO/CAC-Cell/UAN No 0000026267/E/9th CAC-1903001471 dtd 26.03.2019
 2. Consent to operate(part-I) granted vide No Format1.0/BO/CAC-Cell/UAN No 0000042741/CO(Part-I)-1903001469 dtd 26.03.2019
 3. Minutes of 17th Consent Committee meeting held on 08.03.2022

Your application NO. MPCB-CONSENT-0000117161

For: grant of Consent to Renewal under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization / Renewal of Authorization under Rule 6 of the Hazardous & Other Wastes (Management & Transboundary Movement) Rules 2016 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I,II,III & IV annexed to this order:

1. **The Renewal of consent to Operate(part-I) is granted for period upto 28.02.2024**
2. **The capital investment of the project is Rs.106.11 Cr. (As per C.A Certificate submitted by industry).**
3. **The Consent to Renewal (part-I) is valid for mix development project" Stargaze"named as M/s. Kolte Patil Development ,Mix Development Project "Stargaze",S. No. 76/1, 77/1+2(p), 78/1(p)+ 2+3(p) +5(p)+79/1(p) +2+3(p) +4+5(p)+81/1(p)+2+3+4(p)+ 82/1(p)+2+ 83/1+2 +3(p) +4+5(p) +6(p) +84/1+2(p)+3(p)+85/2 +86/1+3+4+5(p) +6+7(p) +8(p) +87/1+2(p)+3+88/1 to 5+91/1+2(p), village Bhavdhan(Bk), Tal Mulshi, Dist Pune on Total Plot Area of 74,321.81 SqMtrs for completed construction BUA of 1,00,173.25 SqMtrs out of Total Construction BUA of 1,40,599.3 SqMtrs as per EC granted dated10.12.2015 including utilities and services.**

Sr.No	Permission Obtained	Plot Area (SqMtr)	BUA (SqMtr)
1	Environmental Clearance dtd 10.12.2015	74321.81	140599.30
2	Consent to Establish dtd 26.03.2019	74321.81	140599.30
3	Consent to operate(part-I)	74321.81	100173.25

4. **Conditions under Water (P&CP), 1974 Act for discharge of effluent:**

Sr No	Description	Permitted (in CMD)	Standards to	Disposal
1.	Trade effluent	Nil	NA	NA
2.	Domestic effluent	299.8	As per Schedule - I	The treated effluent shall be 60% recycled for secondary purposes such as toilet flushing, air conditioning, cooling tower make up, firefighting etc. and remaining shall be connected to the sewerage system provided by local body

5. **Conditions under Air (P& CP) Act, 1981 for air emissions:**

Stack No.	Description of stack / source	Number of Stack	Standards to be achieved
S - 1	DG Set-160 kVA	01	As per Schedule -II

6. **Conditions under Solid Waste Rules, 2016:**

Sr No	Type Of Waste	Quantity & UoM	Treatment	Disposal
1	Biodegradable waste	661.7 Kg/Day	OWC & Composting	As Manure
2	Non-Biodegradable waste	405.5 Kg/Day	Segregation	To Local Body
3	STP Sludge	29.98 Kg/Day	Dewatering	As Manure

7. **Conditions under Hazardous & Other Wastes (M & T M) Rules 2016 for treatment and disposal of hazardous waste:**

Sr No	Category No.	Quantity	UoM	Treatment	Disposal
1	5.1 Used or spent oil	50	Ltr/A	Reprocessing	To Authoried Reprocessor

- The Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
- This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government authorities.
- Project Proponent shall install online monitoring system for the parameter pH, SS, BOD and flow at the outlet of STP.
- Project Proponent shall operate the Organic waste digester with composting facility or biodigester with composting facility effectively
- The project proponent shall make provision of charging of electric vehicles in atleast 40 % of total available parking area.
- The Project proponent shall submit bank Guarantee of Rs 10.611 Lakhs (0.1 % of Capital Investment). The same shall be forfeited as PP has not obtained renewal of consent after 28.02.2020, thus violated the consent conditions.
- The Project proponent shall submit Board Resolution in prescribed format within 15 days as PP has not obtained renewal of consent after 28.02.2020, thus violated the consent conditions. PP shall submit Bank guarantee of Rs 2.0 lakhs towards submission of Board Resolution.

15. The Project Proponent shall comply with the Environmental Clearance obtained vide No SEAC-III-2014/CR/291/TC-3 dtd 10.12.2015 for construction project having total plot area of 74321.81 Sqm and total construction BUA of 140599.3 Sqm.



Ashok Shingare

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Signed by: **Ashok Shingare**
Member Secretary
For and on behalf of
Maharashtra Pollution Control Board
ms@mpcb.gov.in
2022-05-12 14:36:56 IST

Received Consent fee of -

Sr.No	Amount(Rs.)	Transaction/DR.No.	Date	Transaction Type
1	848880.00	MPCB-DR-7636	30/08/2021	RTGS

Copy to:

- Regional Officer, MPCB, Pune and Sub-Regional Officer, MPCB, Pune II
 - They are directed to ensure the compliance of the consent conditions.
 - They are directed to obtain and forfeit the bank guarantee of Rs 10.611 Lakhs from the PP
- Chief Accounts Officer, MPCB, Sion, Mumbai



SCHEDULE-I

Terms & conditions for compliance of Water Pollution Control:

- 1) A] As per your application, you have provided STP of 480 CMD capacity with MBBR Technology for treatment of 299.88 CMD domestic effluent
- B] The Applicant shall operate the sewage treatment plant (STP) to treat the sewage so as to achieve the following standards prescribed by the Board or under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

Sr.No	Parameters	Limiting concentration not to exceed in mg/l, except for pH
1	pH	5.5-9.0
2	BOD	10
3	COD	50
4	TSS	20
5	NH4 N	5
6	N-total	10
7	Fecal Coliform	less than 100

- C] The treated domestic effluent shall be 60% recycled for secondary purposes such as toilet flushing, air conditioning, cooling tower make up, firefighting etc. and remaining shall be utilized on land for gardening and connected to the sewerage system provided by local body.
- 2) The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or and extension or addition thereto.
- 3) The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.
- 4) **The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Act, 1974 and as amended, and other provisions as contained in the said act.**

Sr. No.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, spraying in mine pits or boiler feed	0.00
2.	Domestic purpose	376.81
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	0.00
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	0.00

- 5) The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act, 1986 and rule made there under from time to time.

SCHEDULE-II

Terms & conditions for compliance of Air Pollution Control:

- 1) As per your application, you have provided the Air pollution control (APC) system and erected following stack (s) and to observe the following fuel pattern-

Stack No.	Source	APC System provided/proposed	Stack Height(in mtr)	Type of Fuel	Sulphur Content(in %)	Pollutant	Standard
S - 1	DG Set-160 kVA	Acoustic Enclosure	3.00	HDS 45 Ltr/Hr	1	SO ₂	0.9 Kg/Day

- 2) The applicant shall operate and maintain above mentioned air pollution control system, so as to achieve the level of pollutants to the following standards.

Total Particular matter	Not to exceed	150 mg/Nm ³
-------------------------	---------------	------------------------

- 3) The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement well before its life come to an end or erection of new pollution control equipment.
- 4) The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).



SCHEDULE-III

Details of Bank Guarantees:

Sr. No.	Consent(C2E/C2O/C2R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	C to R(Part)	Rs 25 Lakhs	15 Days	Operation and maintenance of Poolution Control Systems	28.02.2024	30.06.2024
2	C to R(Part)	Rs 2.0 lakhs	15 Days	Submission of Board Resolution	28.02.2024	30.06.2024
3	C to R(Part)	Rs 10.611 Lakhs	15 Days	Compliance of consent conditions	28.02.2024	30.06.2024

** The above Bank Guarantee(s) shall be submitted by the applicant in favour of Regional Officer at the respective Regional Office within 15 days of the date of issue of Consent.

Existing BG obtained for above purpose if any may be extended for period of validity as above.

BG Forfeiture History

Srno.	Consent (C2E/C2O/C2R)	Amount of BG imposed	Submission Period	Purpose of BG	Amount of BG Forfeiture	Reason of BG Forfeiture
1	C to R(Part)	Rs 10.611 Lakhs	15 Days	Towards compliance of Consent Condiitons	Rs 10.611 Lakhs	Violation of Consent Condiitions

BG Return details

Srno.	Consent (C2E/C2O/C2R)	BG imposed	Purpose of BG	Amount of BG Returned
NA				

SCHEDULE-IV

General Conditions:

- 1 The applicant shall provide facility for collection of samples of sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
- 2 The firm shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act, 1981 and Environmental Protection Act 1986 and Solid Waste Management Rule 2016, Noise (Pollution and Control) Rules, 2000 and E-Waste (Management & Handling Rule 2011).
- 3 Drainage system shall be provided for collection of sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No sewage shall be admitted in the pipes/sewers downstream of the terminal manholes. No sewage shall find its way other than in designed and provided collection system.
- 4 Vehicles hired for bringing construction material to the site should be in good condition and should conform to applicable air and noise emission standards and should be operated only during non-peak hours.
- 5 Conditions for D.G. Set
 - a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
 - b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
 - c) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper siting and control measures.
 - d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
 - e) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.
 - f) D.G. Set shall be operated only in case of power failure.
 - g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
 - h) The applicant shall comply with the notification of MoEFCC, India on Environment (Protection) second Amendment Rules vide GSR 371(E) dated 17.05.2002 and its amendments regarding noise limit for generator sets run with diesel.
- 6 Solid Waste - The applicant shall provide onsite municipal solid waste processing system & shall comply with Solid Waste Management Rule 2016 & E-Waste (M & H) Rule 2011.
- 7 Affidavit undertaking in respect of no change in the status of consent conditions and compliance of the consent conditions the draft can be downloaded from the official web site of the MPCB.

- 8 Applicant shall submit official e-mail address and any change will be duly informed to the MPCB.
- 9 The treated sewage shall be disinfected using suitable disinfection method.
- 10 The firm shall submit to this office, the 30th day of September every year, the environment statement report for the financial year ending 31st march in the prescribed Form-V as per the provision of rule 14 of the Environmental (Protection) Second Amended rule 1992.
- 11 The applicant shall make an application for renewal of the consent at least 60 days before date of the expiry of the consent.

This certificate is digitally & electronically signed.





Mahabal Enviro Engineers Pvt. Ltd.

PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA
Phone: **0712-2612162/2612212** email: **nagpur@mahabal.com**



TEST REPORT

Report No.:	ME-NG07636-230429- SA-STARGAZE-PUNE	Date: 29.04.2023
ULR No.:	TC748723000007017F	

Name and Address of Customer	KOLTE PATIL DEVELOPERS LTD. STARGAZE Vill.Bavdhan Tal.Mulshi, Dist.Pune		WO No.: Verbal WO Date: -
Sample Description / Type	Ambient Air	Sample Collected by	Laboratory
Sampling Location	Near Main Gate	Sample Quantity / Packing	PM ₁₀ : Filter Paper 1 X 1 No. PM _{2.5} : Filter Paper 1 X 1 No. SO ₂ : 30 mL X 2 No. PVC Bottle NO ₂ : 30 mL X 2 No. PVC Bottle CO: 2L X 1 No. Gas Bladder
Date of Sampling	24.04.2023	Date of Receipt of Sample	26.04.2023
Sampling Procedure	As per method reference		
Date of Start of Analysis	27.04.2023	Date of Completion of Analysis	28.04.2023

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	<u>Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)</u>				
1	Sulphur Dioxide (SO ₂)	µg/m ³	9.1	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO ₂)	µg/m ³	11.7	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PM ₁₀	µg/m ³	35	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM _{2.5}	µg/m ³	18	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30
5	Carbon Monoxide (CO)	mg/m ³	0.97	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)

END OF REPORT





Mahabal Enviro Engineers Pvt. Ltd.

PLOT NOS. 13,14,17,18, GRAMPANCHAYAT BOKHARA, CHHINDWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA

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TEST REPORT

Report No.:	ME-NG07636-230429- SA-STARGAZE-PUNE	Date: 29.04.2023
ULR No.:	TC748723000007017F	

- Note:**
1. BQL: Below Quantification Limit.
 2. LOQ: Limit of Quantification.
 3. Duration of Sampling: 8h
 4. TWA: Time Weighted Average
 5. NAAQS: National Ambient Air Quality Standard
 6. #- NAAQS specified as: 24 h. TWA in case of SO₂, NO₂, PM₁₀, PM_{2.5}, 1 h. TWA in case of CO.
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Harish Mendhi
Technical Manager
Chemical Testing





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TEST REPORT

Report No.:	ME-NG07637-230429- SA- STARGAZE-PUNE	Date: 29.04.2023
ULR No.:	TC748723000007018F	

Name and Address of Customer	KOLTE PATIL DEVELOPERS LTD. STARGAZE Vill.Baydhan Tal.Mulshi, Dist.Pune		WO No.: Verbal WO Date: -
Sample Description / Type	Ambient Air	Sample Collected by	Laboratory
Sampling Location	Project Site	Sample Quantity / Packing	PM ₁₀ : Filter Paper 1 X 1 No. PM _{2.5} : Filter Paper 1 X 1 No. SO ₂ : 30 mL X 2 No. PVC Bottle NO ₂ : 30 mL X 2 No. PVC Bottle CO: 2L X 1 No. Gas Bladder
Date of Sampling	24.04.2023	Date of Receipt of Sample	26.04.2023
Sampling Procedure	As per method reference		
Date of Start of Analysis	27.04.2023	Date of Completion of Analysis	28.04.2023

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	µg/m ³	10.2	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO ₂)	µg/m ³	13.6	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PM ₁₀	µg/m ³	29	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM _{2.5}	µg/m ³	16	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30
5	Carbon Monoxide (CO)	mg/m ³	1.01	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)

END OF REPORT





Mahabal Enviro Engineers Pvt. Ltd.

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TEST REPORT

Report No.:	ME-NG07637-230429- SA- STARGAZE-PUNE	Date: 29.04.2023
ULR No.:	TC748723000007018F	

- Note:**
1. BQL: Below Quantification Limit.
 2. LOQ: Limit of Quantification.
 3. Duration of Sampling: 8h
 4. TWA: Time Weighted Average
 5. NAAQS: National Ambient Air Quality Standard
 6. #- NAAQS specified as: 24 h. TWA in case of SO₂, NO₂, PM₁₀, PM_{2.5}, 1 h. TWA in case of CO.
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TEST REPORT

Report No.:	ME-NG07638-230429- SA- STARGAZE-PUNE	Date: 29.04.2023
ULR No.:	TC748723000007019F	

Name and Address of Customer	KOLTE PATIL DEVELOPERS LTD. STARGAZE Vill.Baydhan Tal.Mulshi, Dist.Pune		WO No.: Verbal WO Date: -
Sample Description / Type	Ambient Air	Sample Collected by	Laboratory
Sampling Location	Near Storeroom	Sample Quantity / Packing	PM ₁₀ : Filter Paper 1 X 1 No. PM _{2.5} : Filter Paper 1 X 1 No. SO ₂ : 30 mL X 2 No. PVC Bottle NO ₂ : 30 mL X 2 No. PVC Bottle CO: 2L X 1No. Gas Bladder
Date of Sampling	24.04.2023	Date of Receipt of Sample	26.04.2023
Sampling Procedure	As per method reference		
Date of Start of Analysis	27.04.2023	Date of Completion of Analysis	28.04.2023

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	µg/m ³	10.4	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO ₂)	µg/m ³	13.9	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PM ₁₀	µg/m ³	28	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM _{2.5}	µg/m ³	17	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30
5	Carbon Monoxide (CO)	mg/m ³	0.84	04	CPCB Guidelines for the Measurement of Ambient Air Pollutants Volume-II, 2012-13, Page No. 16-22, (NDIR method)

END OF REPORT





Mahabal Enviro Engineers Pvt. Ltd.

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TEST REPORT

Report No.:	ME-NG07638-230429- SA- STARGAZE-PUNE	Date: 29.04.2023
ULR No.:	TC748723000007019F	

- Note:**
1. BQL: Below Quantification Limit.
 2. LOQ: Limit of Quantification.
 3. Duration of Sampling: 8h
 4. TWA: Time Weighted Average
 5. NAAQS: National Ambient Air Quality Standard
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Technical Manager
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TEST REPORT

Report No.:	ME-NG07597-230503- SA-KPDL-PUNE	Date: 03.05.2023
ULR No.:	TC748723000006978F	

Name and Address of Customer	KOLTE PATIL DEVELOPERS LTD. STARGAZE Vill.Bavdhan Tal.Mulshi, Dist.Pune		WO No.: Verbal WO Date: -
Sample Description / Type	Domestic Effluent	Sample Collected by	Laboratory
Sampling Location	STP Outlet	Sample Quantity / Packing	2 L X 1 No. PVC Can 100 mL X 1 No. PVC Can 1 L X 1 No. Glass Bottle 250 mL X 1 No. Sterilized Glass Bottle
Date of Sampling	24.04.2023	Date of Receipt of Sample	25.04.2023
Sampling Procedure	IS:3025(Part I):1987 RA 2019; IS 1622:1981 RA 2019, APHA 23 rd Ed. 2017, 1060-B, 1-40; 9060 A, 9-36		
Date of Start of Analysis	25.04.2023	Date of Completion of Analysis	02.05.2023

Sr. No.	Parameter	Unit	Result	Method Reference
	Discipline: Chemical Testing; Product Group: Pollution & Environment (Waste Water)			
1.	pH	-	7.7	APHA 23 rd Ed. 2017, 4500-H ⁺ - B, 4-96
2.	Total Suspended Solids	mg/L	BQL (LOQ:5)	APHA 23 rd Ed. 2017, 2540-D, 2-70
3.	Biochemical Oxygen Demand (3days 27°C)	mg/L	5.0	IS 3025 (Part 44): 1993, Reaffirmed 2019
4.	Chemical Oxygen Demand	mg/L	16	APHA 23 rd Ed. 2017, 5220-B, 5-18
5.	Oil and Grease	mg/L	BQL (LOQ:1)	IS 3025 (Part 39): 1991, RA 2021, Amds.1
6.	Total Dissolved Solids	mg/L	198	IS 3025 (Part 16):1984 RA 2017
7.	Ammonical Nitrogen (as NH ₃ -N)		BQL (LOQ:0.1)	APHA 23 rd Ed. 2017, 4500-NH ₃ , F 4-119
8.	Phosphate Total (as P)	mg/L	0.211	APHA 23 rd Ed. 2017, 4500-P B, 4-160, E, 4-164
	Discipline: Biological Testing; Product Group: Pollution & Environment (Effluent & Waste water)			
9.	Faecal Coliforms	MPN/100mL	11	APHA 23 rd Ed. 2017, 9221-B & E, 9-69 & 9-77

END OF REPORT





Mahabal Enviro Engineers Pvt. Ltd.

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TEST REPORT

Report No.:	ME-NG07597-230503- SA-KPDL-PUNE	Date: 03.05.2023
ULR No.:	TC748723000006978F	

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Harish Mendhi
Technical Manager
Chemical Testing




Shital Lakhorkar
Group In-charge
Biological Testing





Mahabal Enviro Engineers Pvt. Ltd.

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Phone: 0712-2612162/2612212 email: nagpur@mahabal.com



TEST REPORT

Report No.:	ME-NG07597N-230503- SA-KPDL-PUNE	Date:	03.05.2023
ULR No.:	-		

Name and Address of Customer	KOLTE PATIL DEVELOPERS LTD. STARGAZE Vill.Bavdhan Tal.Mulshi, Dist.Pune		WO No. : WO Date :	Verbal -
Sample Description / Type	Domestic Effluent	Sample Collected by	Laboratory	
Sampling Location	STP Outlet	Sample Quantity / Packing	2 L X 1 No. PVC Can	
Date of Sampling	24.04.2023	Date of Receipt of Sample	25.04.2023	
Sampling Procedure	IS:3025(Part I):1987 RA 2019; APHA 23 rd Ed. 2017, 1060-B, 1-40;			
Date of Start of Analysis	25.04.2023	Date of Completion of Analysis	02.05.2023	

Sr. No.	Parameter	Unit	Result	Method Reference
	<u>Discipline: Chemical Testing;</u> <u>Product Group: Pollution & Environment (Waste Water)</u>			
1.	Total Kjeldahl Nitrogen (as N)	mg/L	0.34	APHA 23 rd Ed. 2017, 4500 NH ₃ -B & C, 4-114, 4-116 or F 4-119 & 4500 N _{Org} , B-4-139

END OF REPORT

- Note:
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 2. LOQ: Limit of Quantification.
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Phone: **0712-2612162/2612212** email: **nagpur@mahabal.com**



TEST REPORT

Report No.:	ME-NG07595-230506-SA-STARGAZE-PUNE	Date: 06.05.2023
ULR No.:	TC748723000006976F	

Name and Address of Customer	KOLTE PATIL DEVELOPERS LTD. STARGAZE Vill.Bavdhan Tal.Mulshi, Dist.Pune		WO No.: Verbal WO Date: -
Sample Description / Type	Drinking water	Sample Collected by	Laboratory
Sampling Location	WTP RO Water	Sample Quantity / Packing	2L X 1 No. PVC Can 500 mL X 1 No. PVC Can 250 mL X 1 No. Sterilized Glass Bottle
Date of Sampling	24.04.2023	Date of Receipt of Sample	25.04.2023
Sampling Procedure	IS:3025(Part I):1987 RA 2019; IS 1622:1981 RA 2019, APHA 23 rd Ed. 2017, 1060-B, 1-40; 9060 A, 9-36		
Date of Start of Analysis	25.04.2023	Date of Completion of Analysis	04.05.2023

Sr. No.	Parameter	Unit	Result	#Limit	\$Limit	Method Reference
	<u>Discipline: Chemical</u> <u>Testing: Product</u> <u>Group: Water</u> <u>(Drinking Water)</u>					
1.	Colour	Hazen	BQL (LOQ:1)	5 Max.	15 Max.	APHA 23 rd Ed. 2017, 2120-B, 2-6
2.	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 05):1984, RA 2018
3.	Turbidity	NTU	0.3	1 Max.	5 Max.	APHA 23 rd Ed. 2017, 2130-B, 2-13
4.	pH	-	8.1	6.5 to 8.5	No relaxation	APHA 23 rd Ed. 2017, 4500-H ⁺ -B, 4-95
5.	Residual Free Chlorine	mg/L	BQL (LOQ:0.05)	0.2 Min.	1.0 Min.	APHA 23 rd Ed. 2017, 4500-Cl G, 4-72
6.	Chloramines (as Cl ₂)	mg/L	BQL (LOQ:0.05)	4.0 Max.	No relaxation	APHA 23 rd Ed. 2017, 4500-Cl G, 4-72
7.	Total Dissolved Solids	mg/L	329	500 Max.	2000 Max.	IS 3025 (Part 16):1984 RA 2017, Ed 2.1 (1999-12)
8.	Alkalinity Total (as CaCO ₃)	mg/L	128	200 Max.	600 Max.	APHA 23 rd Ed. 2017, 2320-B, 2-36
9.	Total Hardness (as CaCO ₃)	mg/L	138	200 Max.	600 Max.	APHA 23 rd Ed. 2017, 2340-C, 2-48
10.	Chloride (as Cl)	mg/L	56.0	250 Max.	1000 Max.	APHA 23 rd Ed. 2017, 4500-Cl-B, 4-75





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TEST REPORT

Report No.:	ME-NG07595-230506-SA-STARGAZE-PUNE	Date: 06.05.2023
ULR No.:	TC748723000006976F	

Sr. No.	Parameter	Unit	Result	#Limit	\$Limit	Method Reference
11	Sulphate (as SO ₄)	mg/L	42.4	200 Max.	400 Max.	APHA 23 rd Ed. 2017, 4500-SO ₄ -E, 4-199
12	Nitrate (as NO ₃)	mg/L	0.96	45 Max.	No relaxation	APHA 23 rd Ed. 2017, 4500-NO ₃ , E, 4-131
13	Calcium (as Ca)	mg/L	36.1	75 Max.	200 Max.	APHA 23 rd Ed. 2017, 3500-Ca-B, 3-69
14	Magnesium (as Mg)	mg/L	11.7	30 Max.	100 Max.	APHA 23 rd Ed. 2017, 3500-Mg- B, 3-86
15	Fluoride (as F)	mg/L	0.35	1 Max.	1.5 Max.	APHA 23 rd Ed. 2017, 4500-F, D, 4-90
16	Ammonia/Ammonical Nitrogen	mg/L	BQL (LOQ:0.1)	0.5 Max.	No relaxation	APHA 23 rd Ed. 2017, 4500-NH ₃ - F, 4-119
17	Sulphide	mg/L	BQL (LOQ:0.08)	0.05 Max.	No relaxation	APHA 23 rd Ed. 2017, 4500-S-C-4-183, F-4-187
18	Anionic detergents as MBAS	mg/L	BQL (LOQ:0.1)	0.2 Max.	1.0 Max.	APHA 23 rd Ed. 2017, 5540-C, 5-55
19	Phenolic compounds (as C ₆ H ₅ OH)	mg/L	BQL (LOQ:0.001)	0.001 Max.	0.002 Max.	APHA 23 rd Ed. 2017, 5530- B & C, 5-49, 5-50
Residues in water (Trace metal Element)						
20	Iron (as Fe)	mg/L	0.041	1.0 Max.	No relaxation	IS:3025 (Part 2), 2019
21	Manganese (as Mn)	mg/L	BQL (LOQ:0.01)	0.1 Max.	0.3 Max.	IS 3025 (Part 2): 2019
22	Aluminium (as Al)	mg/L	BQL (LOQ:0.025)	0.03 Max.	0.2 Max.	APHA 23 rd Ed. 2017, 3500-Al-B, 3-63
23	Copper (as Cu)	mg/L	BQL (LOQ:0.01)	0.05 Max.	1.5 Max.	IS 3025 (Part 2): 2019
24	Zinc (as Zn)	mg/L	0.020	5 Max.	15 Max.	IS 3025(Part 2): 2019
25	Selenium (as Se)	mg/L	BQL (LOQ:0.01)	0.01 Max.	No relaxation	IS 3025(Part 2): 2019
Discipline: Biological Testing: Product Group: Water (Drinking water)						
26	Total Coliforms	/100mL	Absent	Shall not be detectable in any 100 mL Sample.	-	IS 15185:2015





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TEST REPORT

Report No.:	ME-NG07595-230506-SA-STARGAZE-PUNE	Date: 06.05.2023
ULR No.:	TC748723000006976F	

Sr. No.	Parameter	Unit	Result	#Limit	\$Limit	Method Reference
27	<i>Escherichia coli</i>	/100mL	Absent	Shall not be detectable in any 100 mL Sample.	-	IS 15185:2016

END OF REPORT

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 2. LOQ: Limit of Quantification.
 3. #: Acceptable Limit as per IS 10500:2012; RA 2018.
 4. \$ Permissible Limit in the Absence of Alternate Source as per IS 10500:2012 RA 2018
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Harish Mendhi
Technical Manager
Chemical Testing


Shital Lakhorkar
Group In-charge
Biological Testing





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TEST REPORT

Report No.:	ME-NG07595N-230506-SA-STARGAZE-PUNE	Date: 06.05.2023
ULR No.:	-	

Name and Address of Customer	KOLTE PATIL DEVELOPERS LTD. STARGAZE Vill.Bavdhan Tal.Mulshi, Dist.Pune		WO No.: Verbal WO Date: -
Sample Description / Type	Drinking water	Sample Collected by	Laboratory
Sampling Location	WTP RO Water	Sample Quantity / Packing	1L X 1 No. PVC Can
Date of Sampling	24.04.2023	Date of Receipt of Sample	25.04.2023
Sampling Procedure	IS:3025(Part I):1987 RA 2019; APHA 23 rd Ed. 2017, 1060-B, 1-40		
Date of Start of Analysis	25.04.2023	Date of Completion of Analysis	04.05.2023

Sr. No.	Parameter	Unit	Result	#Limit	\$Limit	Method Reference
	Discipline: Chemical Testing: Product Group: Water (Drinking Water)					
1	*Mineral Oil	mg/L	BQL (LOQ:1)	1.0 Max.	No relaxation	APHA 23 rd Ed. 5520:2017

END OF REPORT

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 3. #: Acceptable Limit as per IS 10500:2012; RA 2018.
 4. \$ Permissible Limit in the Absence of Alternate Source as per IS 10500:2012 RA 2018
 5. Parameters, Product Group marked with * indicates Subcontracted testing.
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TEST REPORT

Report No.:	ME-NG07639-230429- SA-STARGAZE-PUNE	Date: 29.04.2023
ULR No.:	TC748723000007020F	

Name and Address of Customer	KOLTE PATIL DEVELOPERS LTD. STARGAZE Vill.Baydhan Tal.Mulshi, Dist.Pune	WO No.:	Verbal
Sample Description / Type	Ambient Noise	WO Date:	-
Date of Sampling	24.04.2023	Sampling Procedure	IS 9876:1981

Sr. No.	Location	Time in h	Sound Level L_{eq} dB (A) Fast Response	Sound Level L_{eq} dB (A) Slow Response
<u>Discipline: Chemical Testing;</u> <u>Product Group: Atmospheric</u> <u>Pollution (Ambient Noise)</u>				
1	Near Main Gate	11:00	54.9	53.8
		22:30	40.5	39.4
2	Near Store Room	11:15	54.2	53.6
		22:40	41.7	40.4
3	Near Project Site	11:30	54.9	53.8
		22:50	42.2	41.6

As per The Noise Pollution (Regulation & Control) Rules, 2000 (Rules 3(1) and 4(1))

Area Code	Area Type	Limits in dB (A) weighted scale	
		Day Time (6:00 a.m. to 10:00 p.m.)	Night Time (10:00 p.m. to 6:00 a.m.)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

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TEST REPORT

Report No.:	ME-NG07640-230428- SA- STARGAZE-PUNE	Date: 28.04.2023
ULR No.:	TC748723000007021F	

Name and Address of Customer	KOLTE PATIL DEVELOPERS LTD. STARGAZE Vill.Bavdhan Tal.Mulshi, Dist.Pune		WO No.: Verbal WO Date: -
Sample Description / Type	Stack Emission	Sample Collected by	Laboratory
Sampling Location	DG Set 82.5kVA	Sample Quantity / Packing	Thimble: 1 X 1 No. SO ₂ : 30 mL X 1 No. PVC Bottle NO _x : 25 mL X 1 No. PVC Bottle
Date of Sampling	24.04.2023	Date of Receipt of Sample	26.04.2023
Sampling Procedure	As per method reference		
Date of Start of Analysis	27.04.2023	Date of Completion of Analysis	28.04.2023

Stack Details	
Stack Identity	DG Set 82.5 kVA
Stack attached to	DG Set 82.5 kVA
Material of construction	M.S.
Stack height above ground level (Meter)	5
Stack Diameter (Meter)	0.10
Stack shape at top	Round
Type of fuel	Diesel
Fuel Consumption (L/h)	-

Sr. No.	Parameter	Unit	Result	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)			
1	Flue gas Temperature	°C	91	IS 11255 (Part 3):2008; RA 2018
2	Flue gas Velocity	m/s	6.6	IS 11255 (Part 3):2008; RA 2018
3	Total gas quantity	Nm ³ /h	152	IS 11255 (Part 3):2008; RA 2018
4	Particulate Matter (PM)	mg/Nm ³	20	IS 11255 (Part 1):1985 RA 2019
5	Sulphur Dioxide (SO ₂)	mg/Nm ³	16	IS 11255 (Part 2):1985; RA 2019
6	Oxides of Nitrogen (NO _x)	mg/Nm ³	202	IS 11255 (Part 7): 2005; RA 2017

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TEST REPORT

Report No.:	ME-NG07640-230428- SA- STARGAZE-PUNE	Date: 28.04.2023
ULR No.:	TC748723000007021F	

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TEST REPORT

Report No.:	ME-NG07640N-230428- SA-STARGAZE-PUNE	Date: 28.04.2023
ULR No.:	-	

Name and Address of Customer	KOLTE PATIL DEVELOPERS LTD. STARGAZE Vill.Bavdhan Tal.Mulshi, Dist.Pune		WO No.: Verbal WO Date: -
Sample Description / Type	Stack Emission	Sample Collected by	Laboratory
Sampling Location	DG Set 82.5kVA	Sample Quantity / Packing	SO ₂ :30 mL X 1 No. PVC Bottle
Date of Sampling	24.04.2023	Date of Receipt of Sample	28.04.2023
Sampling Procedure	As per method reference		
Date of Start of Analysis	27.04.2023	Date of Completion of Analysis	28.04.2023

Stack Details	
Stack Identity	DG Set 82.5 kVA
Stack attached to	DG Set 82.5 kVA
Material of construction	M.S.
Stack height above ground level (Meter)	5
Stack Diameter (Meter)	0.10
Stack shape at top	Round
Type of fuel	Diesel
Fuel Consumption (L/h)	-

Sr. No.	Parameter	Unit	Result	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)			
1	Sulphur Dioxide (SO ₂)	kg/d	0.058	IS 11255 (Part 2):1985; RA 2019

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TEST REPORT

Report No.:	ME-NG07596-230506- SA-STARGAZE-PUNE	Date: 06.05.2023
ULR No.:	TC748723000006977F	

Name and Address of Customer	KOLTE PATIL DEVELOPERS LTD. STARGAZE Vill.Bavdhan Tal.Mulshi,Dist,Pune		WO No.: Verbal WO Date: -
Sample Description / Type	Soil	Sample Collected by	Laboratory
Sampling Location	Project Site	Sample Quantity / Packing	1 kg X 1 No. Polythene Bag
Date of Sampling	24.04.2023	Date of Receipt of Sample	25.04.2023
Sampling Procedure	Manual of Soil Testing, Department of Agriculture & Cooperation, Ministry of Agriculture, Govt. India		
Date of Start of Analysis	27.04.2023	Date of Completion of Analysis	05.05.2023

Sr. No.	Parameter	Unit	Result	Method Reference
	<u>Discipline: Chemical Testing;</u> <u>Product Group: Pollution & Environment (Soil)</u>			
1.	pH (1+5)	-	9.1	FAO 1976, Sec.III,1, Page No. 85
2.	Organic Carbon	%	0.234	Manual of Soil Testing, Department of Agriculture & Cooperation, Ministry of Agriculture, Govt. India, Sec.4-17, Page No 83.
3.	Moisture Content	%	5.16	IS 2720 (Part II): 1973, RA 2002, Ed. 3.1
4.	Available Nitrogen	mg/kg	53.2	Manual of Soil Testing, Department of Agriculture & Cooperation, Ministry of Agriculture, Govt. India, Sec.4 -17, Page No 89
5.	Available Phosphate	mg/kg	BQL (LOQ:1)	FAO Sec. III.12-1 Page no-157
6.	Total Cadmium	mg/kg	BQL (LOQ:2)	USEPA/SW 846 Method 3050B, Rev.2: Dec.1996 and 7000B, Rev.2, Feb 2007
7.	Total Chromium	mg/kg	31.3	USEPA/SW 846 Method 3050B, Rev.2: Dec.1996 and 7000B, Rev.2, Feb 2007
8.	Total Copper	mg/kg	109	USEPA/SW 846 Method 3050B, Rev.2: Dec.1996 and 7000B, Rev.2, Feb 2007
9.	Total Lead	mg/kg	12.9	USEPA/SW 846 Method 3050B, Rev.2: Dec.1996 and 7000B, Rev.2, Feb 2007
10.	Total Zinc	mg/kg	91.1	USEPA/SW 846 Method 3050B, Rev.2: Dec.1996 and 7000B, Rev.2, Feb 2007

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TEST REPORT

Report No.:	ME-NG07596N-230506-SA-STARGAZE PUNE	Date: 06.05.2023
ULR No.:	-	

Name and Address of Customer	KOLTE PATIL DEVELOPERS LTD. STARGAZE VIII, Bavdhan Tal. Mulshi, Dist. Pune		WO No.: Verbal WO Date: -
Sample Description / Type	Soil	Sample Collected by	Laboratory
Sampling Location	Project Site	Sample Quantity / Packing	1 kg X 1 No. Polythene Bag
Date of Sampling	24.04.2023	Date of Receipt of Sample	25.04.2023
Sampling Procedure	Manual of Soil Testing, Department of Agriculture & Cooperation, Ministry of Agriculture, Govt. India		
Date of Start of Analysis	27.04.2023	Date of Completion of Analysis	05.05.2023

Sr. No.	Parameter	Unit	Result	Method Reference
	<u>Discipline: Chemical Testing;</u> <u>Product Group: Pollution & Environment (Soil)</u>			
1.	Chloride	mg/kg	88.6	USEPA/SW 846 Method 9253:1996
2.	Sulphate	mg/kg	60.8	IS 2720 (Part XXVII):1977, Reaffirmed 2001.
3.	Oil & Grease	mg/kg	BQL (LOQ:5)	CPCB (HW) manual, Page No. 156

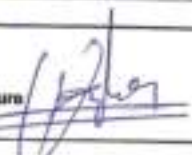
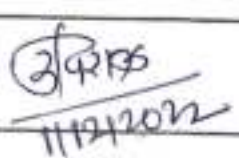
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INSTALLATION AND COMMISSIONING CHECK SHEET FOR DG SETS BELOW 500KVA

Date: 01/02/2022		
Customer Name, Address, Contact No. & Email Id Kohle Path Developers Limited Star gaze - Common Infra Ph-II, Survey No. 76/77 (Part) 78-88, 91, Village Bawdhan Budruk Tal. MULSHI KVA 140 PUNE-411021		Industry Segment: Builder/Ready
GSN 1901031319	Model OSB 5.9-G-1	Panel Type / Sr No. 1905038665
ESN 84536444	Model (Frame) UC1274E	Breaker: MCB / MCCB ✓
ASN N22E211932		Breaker Type / Model Manual Panel
Genset Controller Model & Sr.No.		Powerica make
Battery Details: (Type, Company, Rating & no. of batteries) 95Ah 12V Pulse lite		+ AMF Panel - DC Power sys make
Installation done by: GSEM / GOEM Dealer / Customer (please mention name) GenPower Systems		LET Single Contactor
Generator set Location	Check Status (✓)	Observations / Remarks
On the Ground	✓	
In the Basement	✓	
On Roof Top	✓	
Rental (Truck / Trolley Mounted)	✓	
INSTALLATION CHECK POINTS		
Refer installation Manual 3243795 for installation recommendations & instructions in detail.		
DG set installation: Is away from Hazardous area, material handling. Away from overhead electrical lines (in case of roof top installation).	✓	
Proper approach & surrounding space from all sides is provided for human safety and service accessibility.	✓	
Genset installed on levelled surface foundation. Not installed on loose soil or sand clay.	✓	
Foundation level raised by 150mm from floor to avoid rain water entry or rust to the acoustic base. Platform is levelled with overall level within +/- 3 mm	✓	
The length and breadth of platform should be min. 50 mm (2") more than acoustic enclosure size.	✓	
Enough space (1 mtr min.) surrounding of the genset for serviceability	✓	
Ensure to remove the red coloured shipping brackets after installation.	OK	
Ventilation		
Cross ventilation as per recommendation. No obstruction or blockage for fresh inlet air flow. Similarly no obstruction for radiator hot air outlet. Effective open area min. 1.5m around the genset.	✓	open to sky
Hot Air outlet duct is provided for basement installation	X	
Engine Breather vent hose is routed out of the canopy / DG room. Hose is not kinking anywhere.	OK	
Earthing System		
Refer installation manual for Earthing requirements, earthing strip material & size for DG body earthing.		
Total Four Earth pits are recommended: two nos. for DG set body + Control Panel and two for Neutral. Earthing Resistance should not exceed 1 ohm.	✓	
Provision of flexible joint for earthing strip connection at DG body earth point.	OK	
Check that earthing is provided to radiator core from the radiator frame or from base rail.		
Safety Related Check Points		
Disconnect Battery. Follow LOTO (Lock out & Tag out). Keep Emergency button in pressed position until all checks are completed.	✓	
Check Power Cable connections, entering the acoustic & control panel:		
Load cables are properly routed through the cutout provided on enclosure.		
H: Gas or Weld cut (customized) is made on the enclosure.		
Cutouts are provided with rubber sheaving to protect the cables from chaffing		
Recommended core size cables are used for 3 phase & 1 phase.		
Refer installation manual	✓	
Correct size lugs are used & crimped with cables.		
Cables are properly connected with the MCB & are full tight.		

Load connected is balanced on each phase (equal load on R-Y-B)	✓	Power cable
Alternator to Panel cables are routed properly through Conduit		A1. Armoured with gland.
The conduit is not hanged & is supported or clamped to avoid breakage in operation		150 Series
Power cables & Control cables NOT routed together through same conduit		Control Cable laying OK
Protective gland / sleeve is provided at entry holes on the panel and on the terminal box to avoid chafing of the cables with the sharp edges of the panel body.		AAF Panel.
Engine Harness & Control Harness are properly routed & clamped to avoid rubbing with any sharp edges or loose contacts during operation.		
Connections with battery terminals are tight		
Battery Charger (if separately provided) is installed properly. It is NOT installed on the engine/alternator		
Emergency Switch is connected in circuit and its purpose & function is explained to Operator		
No clutter and flammable things inside or surrounding of the generating set		
No spillage of fuel or oil inside or surrounding of the generating set		
Exhaust System		
In case of extended exhaust piping >3 mtrs, ensure exhaust back pressure within limit and the pipe is properly supported.	✓	open
Fuel System		
Diesel is sourced from authorized fuel outlet. Diesel is clean, free from adulteration.	✓	Bottom Fuel Tank
Fuel Inlet & Drain pipes are properly routed, and are tight		
Do not overfill, keep 5% space for expansion & breathing.		
Ensure clean funnel, pipe, handpump to avoid dirt, foreign material entry into the tank		
Cooling System		
Ensure the cooling system is filled-up with recommended coolant Fleetguard Compleat EG50-50	✓	Radiator Water Level (H)
Radiator body is earthed for stray voltage <0.05V		OK
Lube Oil System		
Check engine oil level on the dipstick upto H mark. Only recommended oil is used for top-up. Refer Owners / O&M manual for recommended oil.		Oil level (H) OK
Training to Operator		
Explain DG set operator on importance of safety related points and routine inspection.	✓	Canopy keys handed over
Maintenance points :	✓	at site. Explained DG
- Oil level check, top-up, do not mix different brand & grade oils. Use recommended oil only.	✓	start/stop
- Coolant level check & top-up. Use Fleetguard COMPLEAT EG50-50 Premix Coolant only.		
- Fuel Level to be maintained in the tank to avoid air lock situations		
- Change Air filter when vacuum indicator shows red		
- Emergency switch operation & resetting		
Load Performance Parameters		
RPM 1500	Hrs Run	1-2 hrs
Load in KVA	Oil Pressure	
Frequency 50 Hz	Coolant Temp.	65°C
Voltage (R/Y/B) 415/415/415	Ambient Temp.	open 93.0 KPa
Current (R/Y/B)	Altitude from sea level	
Power Factor 0.8		
Service Engineer Name & Signature 	Customer Name & Signature 	

Technical Details

Model: *Kwik Composter 250 (KC250)*

Introduction:

KWIK COMPOSTER is a fully automatic Bio-Mechanical Composter. It converts organic waste added to the machine into nitrogen rich compost by reducing its volume by almost 70-80% of the original. Kwik Composter 250 (KC 250) is a continuous Composting System with a capacity of 250kgs/day.

The process of composting with KWIK COMPOSTER is very simple –

- Deposit organic waste at inlet of the machine along with 10% carbonaceous material and 0.1 % composting culture.
 - Mixing, Curing and Composting automatically done no double shredder and external curing system required. Thorough segregation not required.
 - Compost keeps collecting in a bag at the rear of the machine.
- Remove the compost bag when it is full and attach another bag.
- Ambience: Very Pleasant. Food Waste deposited once appears as sweet smelling compost at rear end.

Specifications:

Sr. No	Item	Specifications
1.	Electrical Supply	3 ph
2.	Connected Load (HP)	2.5 HP Max
3.	Space required (in mm)	2156 H x 1782 W x 4900 L
4.	Space for Activated Carbon Filter (in mm)	600 H X 400 W X 800 L
5.	Shed	Not Mandatory but recommended
6.	Platform for Loading through inlet	Necessary
7.	Space to be left from all sides	3ft from all sides (not mandatory but recommended).

Component Supplies:

1. Fully automatic continuous composting machine Kwik Composter model KC250 with composting capacity of 250kgs/day.
2. Suitable Exhaust Blower with Activated Carbon Filter
3. Panel Board.
4. Manual of Operations
5. Exhaust with activated carbon filter.

Material of Construction:

	Item	Material of Construction/Make
1.	Contact Parts	M. S. Coated with anticorrosive FRP Lining
2.	Gear Box with Break Motor	PBL Make Gearbox with Rotomotive make Break Motor or Hindustan Make/ Crompton Make Motor
3.	Outer Hood	FRP
4.	Centrifugal Blower	Revolution Technology
	Electrical & Electronics	
5.	MCB	Hager Make
6.	Contactors	L & T Make
7.	Overload Relay	L & T Make
8.	Connectors	Coneectwell
9.	Timers	GIC (L & T)
10.	Programming	In House
11.	Elements	Technique
12.	Painting of all MS parts	Coated with anti-corrosive Epoxy Primer and 2 Coats of Epoxy Paint

Maintenance:

1. Negligible maintenance is required for Kwik composter.
2. The grease in the gear box needs to be replaced every 5 yrs.
3. Activated Carbon filter also needs to be replaced every 5 yrs.
4. The motors in the gear box are easily maintainable by any machinist
5. A detailed preventive maintenance guide is provided with the machine.
6. If needed, we will undertake to operate the machine for 1 month on mutually agreed terms and conditions.

Operating Costs:

	Item	Expense
1.	Electricity Consumption (p.m.)	Rs. 588 (approx.)
2.	Composting Culture (p.m.)	Rs. 975 (approx.)
3.	Manpower	Neglected
4.	Ideally, saw dust is required initially for couple of months and negligible after biological process is set up.	But depending on wetness of the garbage saw dust may be required consistently.

5. For the 1st month of operation, the machine will consume around 20% to 40% saw dust by weight. Once the biological process in the machine is set up, saw dust consumption will gradually reduce to zero.
6. 1 kg of Composting culture will be required per metric ton of input.
7. Manual operations only involve loading garbage and replacing the compost barrel. Hence manpower cost is neglected in above calculations.

More Information:

Solid Waste Processed in Kwik Composter - What types of waste works and what doesn't?

Sr. No	Type of Waste	Can be Processed in Kwik Composter
1	<i>Domestic / Residential/Industrial Canteen</i>	
	Household Kitchen Food Waste	
	Vegetables	Yes
	Vegetable Waste	Yes
	Fruits and Fruit skins	Yes
	Cooked or uncooked meat	Yes
	Bones /egg shells	Yes
	Bread / Bakery items	Yes
	All cooked food waste	Yes
	Coconut shells	No
	Pharmaceuticals	No
	Cosmetics	No
	Glass	No
	Metal	No
	Newspapers and Magazines	No
	Plastic Bags and Bottles	No
	Dog or Cat Droppings	No
	Sanitary pads/ Nappies	No
2	<i>Garden Waste</i>	
	Street- sweeping leaves	Yes
	Leaves and tree branches (bigger branches broken into pieces)	Yes
3	<i>Vegetable Market Waste</i>	
	Rotten Vegetables	Yes
	Fruits	Yes
	Flowers	Yes
4	<i>Temple Waste</i>	Yes

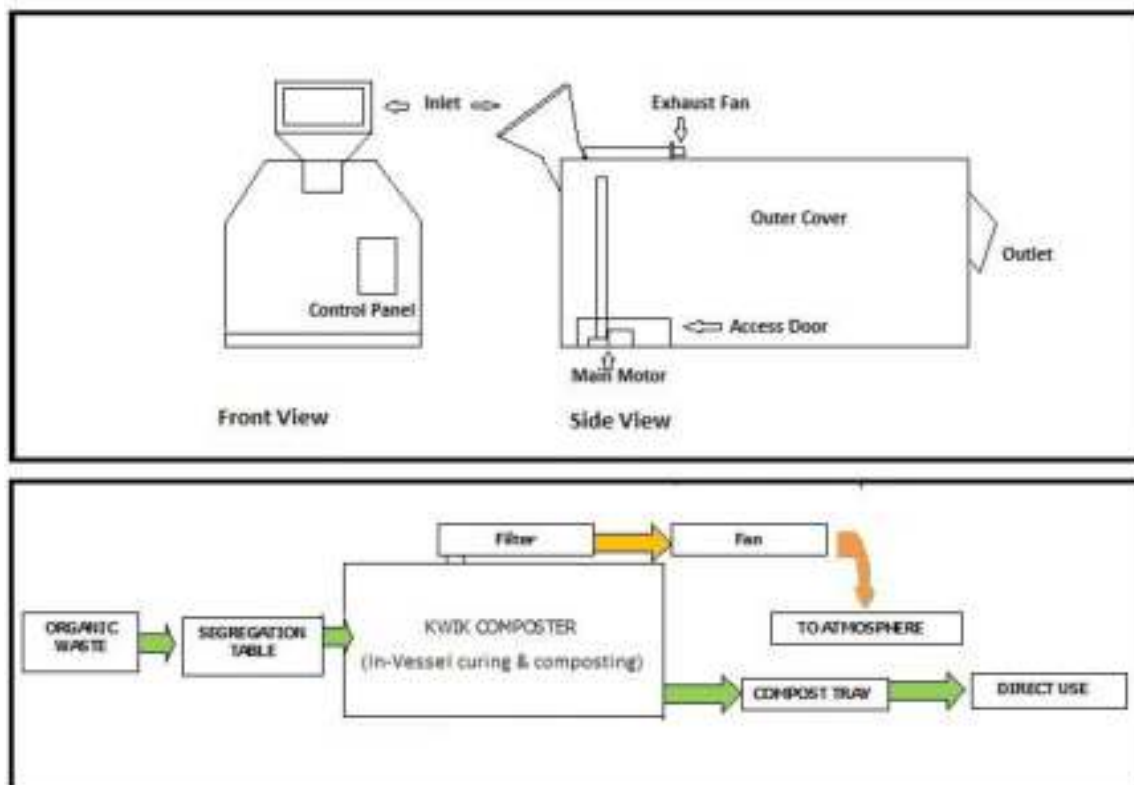
Kwik Composter is a continuous composting machine. It is electronically controlled Bio-Mechanical process. It has many advantages over Batch Type Organic Waste Convertors as listed below –

Parameters	Kwik Composter	Other Machines
Process type	Continuous active composting	Batch type passive composting
Machine type	Closed from all sides; free of pathogens	Raw composting left open risk of pathogens
Curing System	In Built in the Machine. The total space required is much lower than batch type machines.	Additional Cost & Separate Space Required
Manpower Required	Negligible and unskilled	Very High (Skilled manpower)
Operating Cost	Almost 50% of Batch Type Convertors	High
Repeat Cycle	Waste once deposited needs no further handling	Needs to be handled again on 3rd & 7th day
Heat preservation	Enclosure preserves heat	Loss of heat
Odour filter	Available as additional accessories	No
Electronically controlled	Monitors and controls the composting process	No
Space requirements	All processes happen in the same unit	Separate area for curing is required
Pathogens	High Temperature Inside Kills Pathogens	Water Spray prevents temperature rise
Ambience	Pleasant. Food waste once deposited appears as sweet smelling compost on rear end of the machine.	Nauseating. Slight mishandling makes place dirty and unbearable.

Actual Pictures:



Schematic Diagram and Flowchart of the Composting Process:



Our Customers:



Contact Us:

Mr. Dilip Beldar

Earth Care Equipments Private Limited

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Solve your garbage problem

Take care of the Earth





EARTH CARE
EQUIPMENTS PVT. LTD

KWIK Composter User Manual

Version 1.0



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Warranty Certificate

The warranty certificate is issued separately with the Composter.

Company Details

Earth Care Equipments Pvt. Ltd. (ECEPL)

Addresses:

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Escalation Matrix

Support Level	Engineer Name	Designation	Region	Contact Details	Email
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L1 Support	Nikhil Deshmukh	Senior After sales Support Engineer	Gujrat, Rajasthan.	7755912528	nikhild@ecepl.com
L1 Support	Sagar Shirbhate	Senior After sales Support Engineer	East	9561639993	sagars@ecepl.com
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L3 Support	Mrs. Mrunal Patil	Director	-	9890660392	mrunalp@ecepl.com
L4 Support	Mr. R. S. Wagh	Managing Director	-	-	md@ecepl.com
* All mails to be copied to Info@ecepl.com and earthcareequipments@gmail.com					

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Precautions

- Do not clean or carry-out maintenance activities when the Composter is in operation, or with the live voltage.
- Do not do any tampering or alteration to the Composter.
- Only authorized persons are allowed to carry out maintenance tasks.
- Do not use non-original spare parts or the parts having different characteristics from the original parts to be replaced.
- Do not work with the Composter without Personal Protective Equipments (PPEs). Refer section 6 for more information.
- Do not use a pressurized water jet to clean the Composter.
- Do not operate Composter with overcapacity.
- Excess pressure may break seals. Handle seals with care.
- Usage, other than described in this manual, is prohibited because there cannot be any warning of the danger that could arise.
- Ensure for the earthing. There could be a danger of electrical shock, and damage to electrical components. So, the cabling should be carried out as per the provided circuit diagram and by the authorized person only. The Composter is to be operated with a clockwise rotating electric field.
- There can be a risk of falling, trapping, or serious damage to persons while handling packing units. Always use a hoist with a sufficient lifting capacity. Secure packing units against tripping over, and falling.
- Ensure use of organic waste as described in section 4, and do not use waste as described in section 5.

Fire Safety Equipments List

Compost facilities should consider having following material in their safety equipments list. These equipments should be easy to access and portable.

- Emergency contact list
- Keys to access necessary safety equipments
- Safety equipments operation instructions
- Two ABC – 10 kg fire extinguishers
- One fire hydrant wrench
- Two 1 1/2 inch diameter fire hose nozzles
- One 1 1/2 inch fire hose Y
- Around 400 feet 1 1/2 inch diameter of fire hose

1 Introduction

KWIK Composter is an Organic Waste Converter. It offers a greener and a cleaner alternative to the problem of organic waste disposal. It is the most popular product and works on sustainable microorganism based technology. KWIK Composter converts the organic waste into nitrogen-rich compost. Organic wastes include kitchen waste or anything that comes from plants or animals and is biodegradable.

KWIK Composter is mostly installed in hotels, hospitals, office canteens, societies, and so on. It can be installed in parkings, and basements.

1.1 Features

KWIK Composter is equipped with the following features.

- It has Control Panel which controls the machine operations.
- It has a unique Emergency Stop button. This is a push and release button and is used in case of any abnormality, to avoid accidents.
- Selected models have wheels for mobility.
- It has leachate tray at inlet and outlet.

1.2 Need for Composting

Composting helps in the fertilization of the soil. It gives the soil with a variety of nutrients and microorganisms, which improve the plant growth. Composting also increases soil stability, improves drainage, and helps to retain moisture.

Composting helps us to:

- **Save Money** by reducing the cost of buying additional fertilizers.
- **Save Resources** by retaining soil moisture. The amount of water spent on irrigation is less, and the nutrients from compost are not easily washed away by rainfall.
- **Saves Environment** by reducing the emission of harmful Green House Gases which cause global warming.

Figure 1 shows the composting cycle.

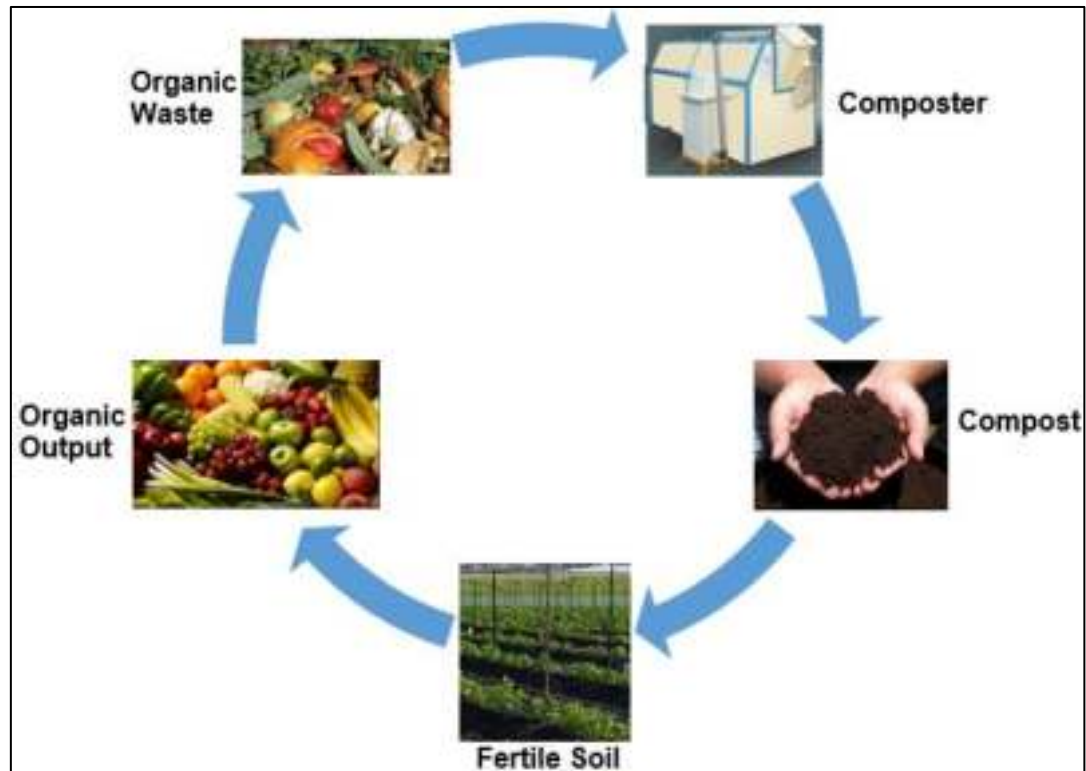


Figure 1: Composting Cycle

1.3 Working Principle

Composting organic waste is either aerobic or anaerobic process.

Aerobic process is a process which occurs in the presence of oxygen. On the other hand, the anaerobic process is a process which occurs in the absence of oxygen.

The composter is an incubator for composting bacterias. Food, water, air, and a mixture of organic waste are made available to them at the appropriate time. These favorable conditions help the bacteria to multiply rapidly, which accelerates the composting process.

With the help of Composter organic waste is converted into usable compost within the 30 to 45 days of timeframe.

1.4 Compost Chemistry

Composter uses the aerobic process of composting. Carbon to Nitrogen ratio (C:N) of the composting mass for the aerobic process should be 30:1. Generally, C:N ratio of food waste is within the range of 12:1 to 18:1. Hence, it requires the addition of carbonaceous materials such as sawdust, dried leaves, rice husk, and so on.

Composting bacteria consume carbon and water. They give out carbon dioxide (CO₂) and water vapor. This gradually reduces carbon in composting mass and the C:N ratio rises to 20:1. Carbon and Nitrogen gases are also used as building blocks for bacterias.

Generation of CO₂ from carbon is an exothermic process. The evolution of heat in the process is preserved in Composter by providing insulation.

The temperature of the composting mass increases up to 45 °C. This temperature kills most of the bacterias from the organic waste, which is dangerous to human health and accelerates the composting process.

1.5 Composter Construction

Figure 2, Figure 3, Figure 4, and Figure 5 show the Composter construction and some components/parts of Composter.

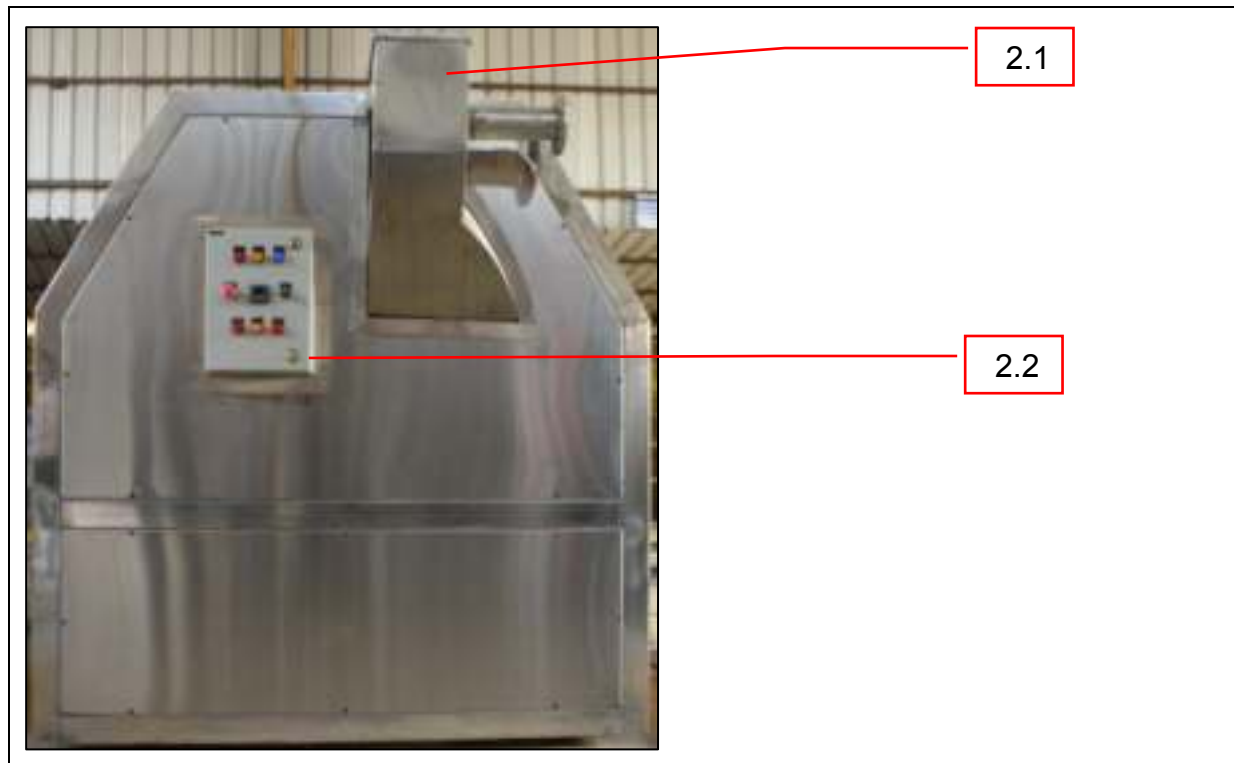


Figure 2: KWIK Composter Front View

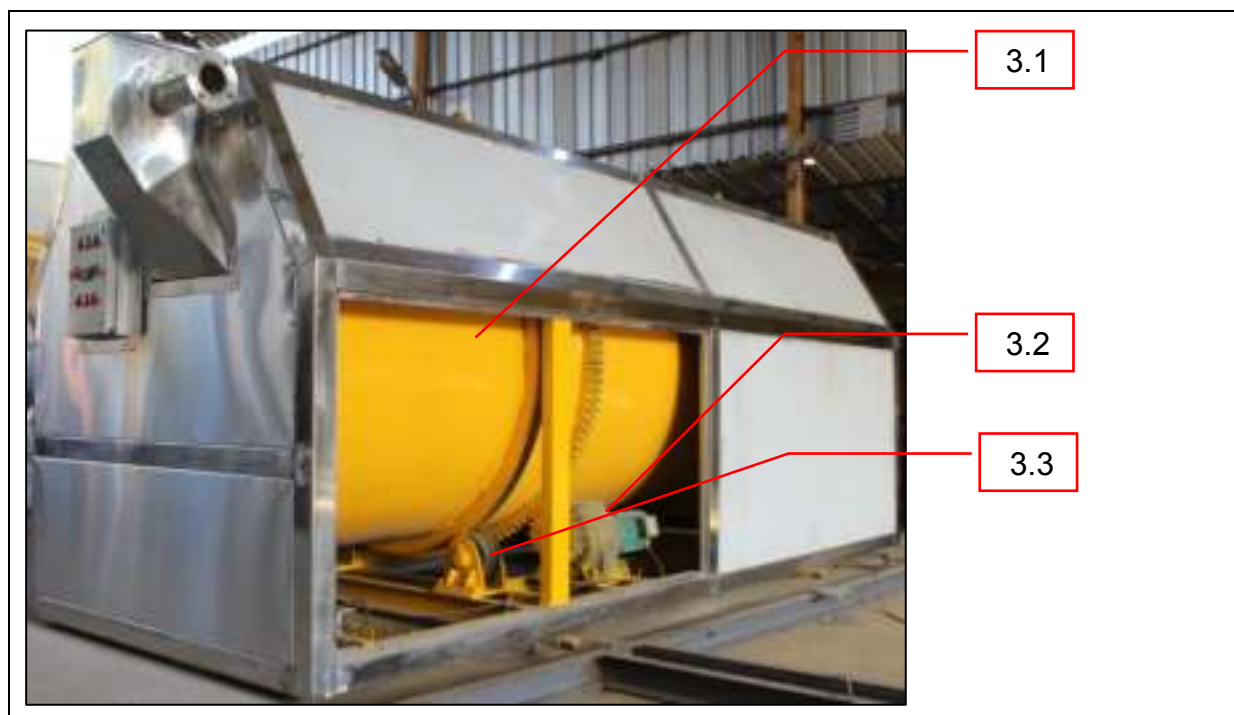


Figure 3: KWIK Composter Right Side View



4.1

Figure 4: KWIK Composter Left Side View



5.1

Figure 5: KWIK Composter Rear View

Table 1 provides brief description of main components/parts of Composter.

Table 1: Description about Main Components/Parts

Ref. No	Component/Part	Description
2.1	Inlet	Organic waste is added into the Composter.
2.2	Control Panel	The composter is operated with the help of Control Panel.
3.1	Insulated Drum	Organic waste is stored in the Insulated Drum. It rotates as per the time setting. The setting is done in two modes; Auto and Manual. The setting can be changed as per the requirement.
3.2	Gearbox	Insulated Drum rotates with the help of Gearbox attached to the motor.
3.3	Rollers	Insulated Drum is mounted on four Rollers. These Rollers help drum to rotate.
-	Blower	The air from Insulated Drum is passed through the Activated Carbon Filter and then released into the environment through the Blower.
4.1	Activated Carbon Tank (Filter Unit)	The odour generated during the composting process is filtered in the Activated Carbon Tank.
5.1	Outlet	Compost comes out from the Composter.

2 Accessories & Consumables




Table 2 provides the list of accessories. Accessories can be purchased separately from ECEPL. For more details refer website www.ecepl.com. For Customer Care refer http://www.ecepl.com/services/customer_care.

Table 2: List of Accessories

Sr. No.	Image	Accessory (Based on Models)
1		Segregation table
2		Bin lifter and tiller
3		Food and garden waste Shredder
4		Feeder
5		De-waterer

Table 3 provides the list of consumables. Use consumables as described in Standard Operating Procedure (SOP).

Table 3: List of Consumables

Sr. No.	Image	Consumable	Availability
1		Sawdust	Local Market
2		Composting Culture	Order from ECEPL. Refer Appendix B for ordering procedure.
3		Activated Carbon	Order from ECEPL. Refer Appendix B for ordering procedure.

3 Installation

ECEPL person installs the Composter. Under no circumstances, the client is required to do the installation. If it is observed, it might cancel the warranty claim for the product.

3.1 Prerequisites

Following are the prerequisites for installing the Composter.

- **Surface**

A tremix flooring with zero ground level is required as a platform for the Composter.



Note A Tremix flooring is required as a platform for the Composter weighing 600 kg and above.

- **Power**

Table 4 provides the power requirement for the Composter.

Table 4: Power Requirements

Parameter	Value
Phase	3 with neutral
Voltage	440 V
Frequency	50 Hz
Electric Wire	Flexible, 3 core, 4 mm square, suitable length



Note Ensure for the earthing. The cabling should be carried out as per the provided circuit diagram, and by the authorized person only.

- **Sawdust**

Sawdust is a high carbonaceous rich material and is easily available in the local market. It is used to reduce moisture content in the wet organic waste and also to maintain the C:N ratio in the composting cycle. It is mandatory to use carbonaceous material to ensure proper composting.

However, other carbonaceous material like a dried garden waste, rice husk, bagasse, dry cow-dung, and so on can also be used.

Table 5 provides the sawdust requirement.

Table 5: Sawdust Requirement

Parameter	Value
Sawdust	1000 kg (minimum stock)

- **Compost Culture**

Composting Culture contains bacterias and is an essential component of the composting process.

Table 6 provides the composting culture requirement.

Table 6: Composting Culture Requirement

Parameter	Value
Composting Culture	10 kg in stock

- **Water**

Water connection with ½ inch flexible pipe arrangement is required. This water is used to clean Composter and surrounding area.

- **Drain**

Drain point is required to remove excess/used water during cleaning of Composter.

3.2 Layout/Floor Plan

Figure 6 shows recommended layout/floor plan for Composter installation.

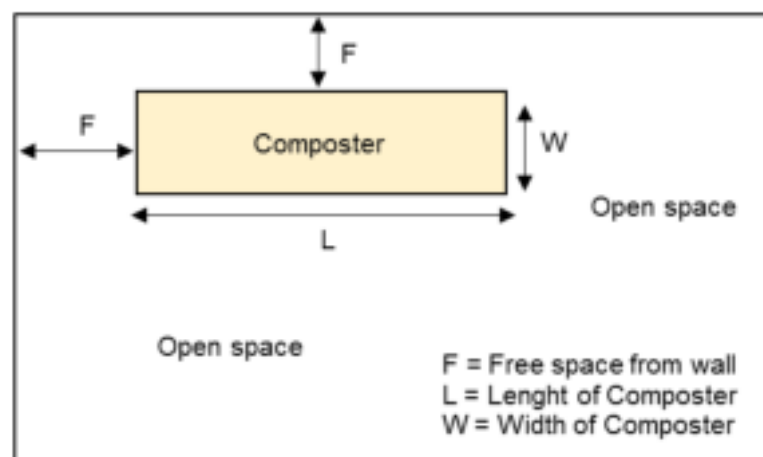


Figure 6: Layout/Floor Plan



Note Free space, F= 1.5 meter, should be left from all sides of Composter.

3.3 Installation Procedure

Depending on the location and contractual agreements, the Composter can be delivered covered in bubble paper wrap on pallets, in boxes, or in crates, whichever is suitable for shipping.

- Check the number of delivered packing units against the packing list.
- Check packing units for external damage.

Depending on the size and weight of the packing units, they must be handled on a low lift platform truck or forklift truck or hydra with sufficient lifting capacity.

Refer packing list given in Appendix A.

Handling should be done with minimum vibrations and shocks to prevent damage to the Composter.



Notes

- There can be a risk of falling, trapping, or serious damage to persons while handling packing units.
- Always use a hoist with a sufficient lifting capacity.
- Secure packing units against tripping over, and falling.

The following installation sequence is recommended. Depending on the customer-specific space situation at the site, it may differ.

1. Remove side walls of the crate.
2. Remove the remaining packing material.
3. Use forklift/crane/hydra to lift the Composter carefully from the base pallet, and set it down.
4. Open the remaining packing units and remove the packing material.
5. Check all parts for transport damage. In case of any damage, make entry at Delivery Challan, and LR copy. Mail the copy with photographs to ECEPL at info@ecepl.com. This is to assert claim to the transport insurance company.



Note

Store the Composter within a dry area to prevent damage especially to the control system. Communicate transit damage, if any, to ECEPL at the earliest.

6. Before installing the Composter, check all fasteners such as screws, clamps, and so on, are tightened.
7. Remove wheels attached to the Composter before putting it in the mounting place.
8. Position the Composter in the allocated space as per layout. Refer section 3.2 for more information.
9. Check for the Composter level.
10. Check for the power requirement as mentioned in section 3.2.

11. Connect Composter earthing to the main earthing point.



Notes

- The wiring should be carried out by an authorized electrician according to the provided circuit diagram.
- The Composter is to be operated with a clockwise rotating electric field.
- There can be a danger of electrical shock, and damage to electrical components.
- Use necessary Personal Protective Equipments (PPEs).

12. Connect the main power cable to the Composter as per provided circuit diagram.

13. Check the direction of the rotating electric field.



Note

The installation of the Composter is to be performed carefully and correctly. ECEPL persons will do the installation.

3.4 Initial Try Run

Make sure that the Composter is installed and connected as per the procedure described in Section 3.3.

After installation, check for the following.

1. Electrical

- i) Composter neutral, and earthing supply
- ii) Specified voltage (440 V), current, and frequency (50 Hz) for three phase
- iii) Red Yellow Blue (RYB) indicators' sequence

2. Activated Carbon Tank










- i) Electrical connections
- ii) Piping with machine inlet
- iii) Tightness for nuts and bolts

The Composter is ready to use only after checking above-mentioned points.

4 What You CAN Compost

Table 7 provides the list of organic waste that CAN be composted in the Composter.

Table 7: What You CAN Compost

Image	Name
	Vegetables
	Spoilt Vegetables
	Fruit skins and Spoilt fruits
	Raw and cooked meat
	Eggshells
	Bread and bakery products
	Food waste
	Dry garden waste
	Dry temple waste

5 What You CANNOT Compost

Table 8 provides the list of organic waste that CANNOT be composted in the Composter.

Table 8: What You CANNOT Compost

Image	Name
	Coconut shell
	Plastic bags, and bottles
	Glass
	Metal
	Dog and cat droppings (Animal waste)
	Napkins or sanitary waste
	Pharmaceuticals
	Cosmetics



Notes

- Shredded coconut shell can be composted.
 - Animal waste can be composted. However, the compost will have an odor.
-

6 Personal Protective Equipments (PPEs)

Table 9 provides Personal Protective Equipments (PPEs). Use PPEs while working with Composter.

Table 9: Personal Protective Equipments (PPEs)

PPE	Description
	Safety shoes Always wear safety shoes to protect your feet.
	Hand gloves Always wear hand gloves to protect your hands.
	Mask Always wear a mask to protect your respiratory system.
	Safety goggles Always wear safety goggles to protect your eyes.
	Apron Always wear an apron to protect your skin and clothes.
	Washing hands Wash your hands frequently.

7 Working with Control Panel

Control Panel controls the operation of Composter. It is shown in Figure 7.



Notes

- Only authorized persons can open the Control Panel.
- There is a risk of an electric shock.
- Operate Composter in Auto Mode.
- Refer section 10 in case of any trouble



Figure 7: Control Panel

Table 10 provides brief description of parts/buttons on the Control Panel.

Table 10: Control Panel Parts/Buttons

Ref. No	Part/Button	Description
4.1, 4.11	Key Knob	Key Knob is to open or close the Control Panel. To open the door, rotate key in an anti-clockwise direction and to close the door, rotate key in the clockwise direction.
4.2, 4.3, 4.4	R, Y, & B Indicators	Red, Yellow, Blue (RYB) indicators indicate the phases.
4.5	EM STOP	EM STOP is an emergency stop button. It is used In case of abnormal conditions to stop the composting process.
4.6	Timer Setter	Time intervals are set here during the installation. The ECEPL is the only authorized entity to set the time intervals.
4.7	AUTO/MANUAL	AUTO/MANUAL switch is a three-way selector switch. You can select AUTO, OFF or MANUAL mode of operation. The knob at left side indicates the AUTO mode. The knob in the middle indicates OFF condition, and the knob at the right side indicates the MANUAL mode.
4.8	MOTOR 1 ON	Motor 1 ON glow condition indicates that the Rotor motor is in ON condition.
4.9	TRIP	TRIP indicator glow condition indicates that either of the motor (Rotor or Blower) is tripped. The trip condition remains for approximately five seconds. Trip reset is auto, and the motor starts again within five seconds.
4.10	MOTOR 2 ON	Motor 2 ON glow condition indicates that Blower motor is in ON condition.

Auto Mode:

In this mode, Composter is controlled automatically. Blower and Rotor motors run continuously, as per set time intervals.



Notes

- Only authorized persons can access the Composter setting parameters.
- ECEPL sets the Composter setting parameters during installation.

Manual Mode:

In this mode, Composter is controlled manually. Blower and Rotor motors run as per your requirement.

8 Standard Operating Procedure (SOP)

Figure 8 shows the composting process flow diagram.

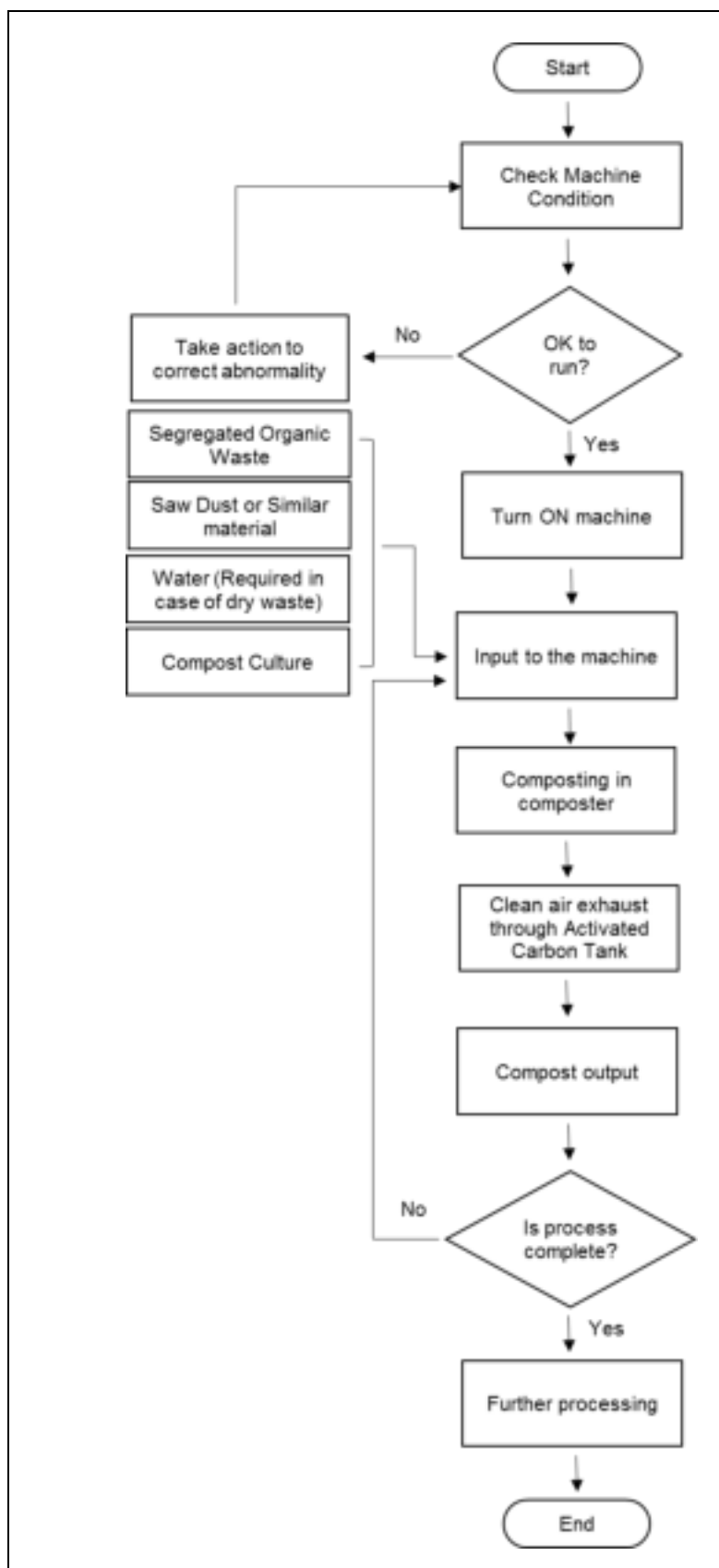


Figure 8: Composting Process Flow Diagram



Notes

- For your safety, make use of PPEs, as described in section 6.
 - Ensure Composter is ready for use.
 - Ensure use of organic waste as described in section 4.
 - Ensure not to use waste as described in section 5.
-

Following is the Standard Operating Procedure (SOP).

1. Segregate plastics and other non-biodegradables from the waste.
 2. Cut large size fruits and vegetables. Approximate size of loading material is up to 1 inch -1.5 inch.
 3. Ensure large quantity of inorganic material like plastic and so on, is not loaded in Composter.
 4. Store organic waste in a perforated vessel for about four hours to remove excess moisture from the organic waste, and then dump it in Composter.
 5. Add 10% to 30% sawdust in the organic waste depending on moisture level at the outlet.
-

**Note**

The % of sawdust may increase depending on the moisture content of organic waste (like curry, sambhar, gravy, and so on).

6. Add 0.1% (of feeding capacity) composting culture in the Composter.
7. Close the inlet door.
8. Ensure the outlet is not blocked.
9. Confirm, Composter is in AUTO MODE.
10. Put bin/collector at outlet. Compost is automatically collected in the bin/collector.
11. Segregate large un-composed organic material from the compost and reload.
12. For excellent results, the output should be moist and not wet. If the output is wet, increase sawdust quantity and reload it.

9 Maintenance



Notes

- Only authorized persons are allowed to carry out maintenance tasks.
 - Use necessary Personal Protective Equipments (PPEs).
-

Like every machine, Composter also requires maintenance at regular intervals of times. Following are few guidelines for the smooth functioning of Composter.

9.1 Daily Maintenance

Perform following checks daily for the trouble-free functioning of the Composter.

- Abnormal noise - Check for any abnormal noise.
 - Wiping and cleaning - Wipe Composter daily with a clean cloth. Keep Composter surrounding area clean.
-



Note

If Composter surrounding area is not clean then there will be odour. The odour is not from the Composter but from the Composter surrounding area.

- Damage and leakage - Check for any damages and leakages. Contact ECEPL immediately.
 - Scratches - Avoid feeding sharp objects as they may cause scratches.
 - Exhaust fan - Check, if any object is blocking the exhaust fan area.
-

9.2 Preventive Maintenance

- Gearbox should be refilled with grease every five years. Contact ECEPL to arrange an authorize person.
- Rollers need greasing once in every 6 months.
- Blower needs to be free from obstacles.
- Blower pipe should be checked for sawdust clogging regularly. If clogged, remove and clean the pipe and reassemble the same.
- Activated Carbon Filter should be changed every five years. Contact ECEPL to buy.

9.3 Shutdown Maintenance

Follow the shutdown maintenance procedure as given below.

1. Switch OFF Composter.
2. Disconnect main power supply and remove the plug.

10 Troubleshooting

The useful information for troubleshooting is as follows.

1. Unpleasant smell

In case of unpleasant smell from Composter, ensure that the input and output are moist. If it is wet, then add sawdust through inlet. Increase the composting culture by 0.2%. Continue until you get desired results of no smell and moist compost.

2. No output

- Ensure that the outlet is not blocked. Remove blockages to flow compost freely.
- Usually, there is no output if the Composter is not operated as per its capacity.

For example, the Composter with 100 kg/day capacity delivers output in 15 days for an input of 100 kg/day organic waste. The input of an organic waste below 100 kg will take more time for the output.

3. Leakages

In case of leakages ensure tightness of bolts for front and rear cover.



Note Handle seals with care. Excess pressure may break seals.

4. Overloaded drum

If the inlet is blocked and no further organic waste can be added in the Composter then this indicates that the drum is overloaded. If the organic waste overloads the drum, select the MANUAL MODE in HMI/Control Panel, remove overloaded compost from outlet manually. Run the Composter in Auto Mode and continue the operation.

5. Main Motor stopped working

Ensure the following.

- Organic waste does not overload drum.
For overloaded drum, refer point 4.
- Electrical connections
- Door is closed properly

6. Blower stopped working

Ensure the following.

- Clogging. If clogged, remove, clean, and reassemble pipe.
- Capacitor working condition. If capacitor is not in working condition, get it checked from an authorized person.
- Electrical connections
- Door is closed properly
- For any other problems, contact ECEPL.

7. Abnormal noise during process

Push Emergency Stop button, check Composter, check HMI/Control Panel, and take countermeasures on the same.

Contact ECEPL, for more information and the severity of the problem.



Note Refer Appendix E for daily recording of operations.

11 Emergency Stop Conditions

Figure 9 shows Emergency Stop button. It is a push and release type of button. It is used during abnormal conditions.

Some of the abnormal conditions can be as follows.

1. Abnormal noise during the process.
2. In case of accidents.

Such conditions can be handled by pushing an EMERGENCY STOP.

For above conditions, follow the procedure given below.

1. Push **EM STOOP**.
Composter stops immediately.
2. Resolve the abnormal condition.
3. Pull the knob out to release it.
4. Start the Composter again.



Figure 9: Emergency Stop Button

12 Technical Specifications

12.1 General Parameters

Table 11 shows general parameter of the Composter.

Table 11: General Parameters

Parameter	Value
Temperature (Inside Composter)	45 °C to 65 °C
Noise	68.81 dB

12.2 Electrical Specifications

Table 12 shows electrical specifications of the Composter.

Table 12: Electrical Specifications

Parameter	Value
Phases	3
Voltage	440 V
Frequency	50 Hz

12.3 Components Specifications

12.3.1 Motor Specifications

Table 13 provides the specifications of the motor.

Table 13: Motor Specifications

Parameter	Value
Rating	1 HP to 15 HP
Voltage	420 V
Frequency	50 Hz
Power supply	3 Phase
Ambient temperature	50 °C

12.3.2 Blower Specifications

Table 14 provides the specifications of the blower.

Table 14: Blower Specifications

Parameter	Value
Rating	180 W at 240 VAC
Capacity	450 CFM to 500 CFM under ideal temperature, and pressure conditions
Frequency	50 Hz
Maximum Static Pressure	740 Pa

13 Engineering Drawing

Figure 10 shows engineering drawing for Composter.

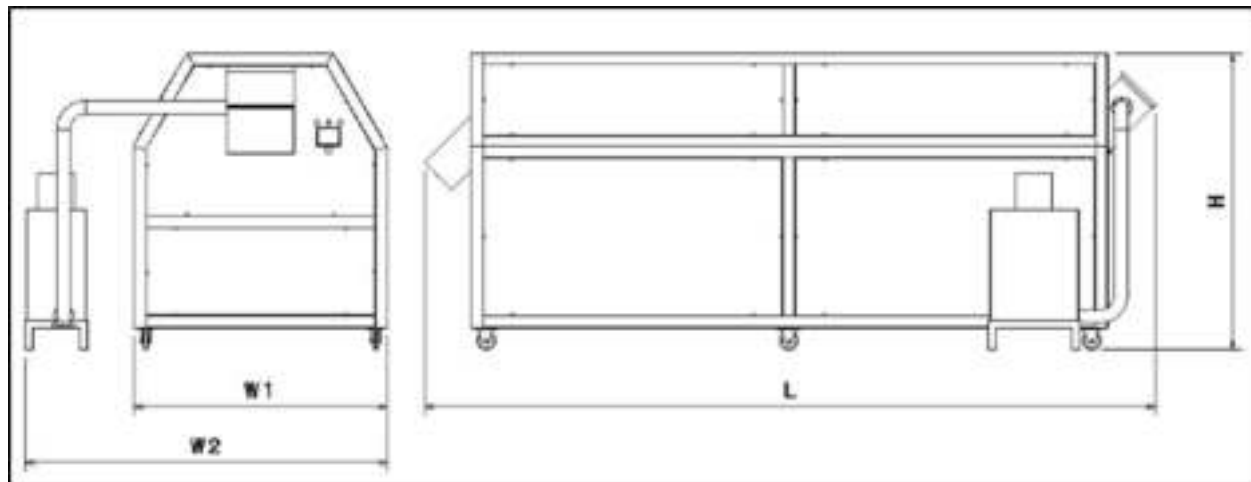


Figure 10: Engineering Drawing

14 Circuit Diagrams

Figure 11 and Figure 12 show Control, and Power diagram respectively of the Composter.

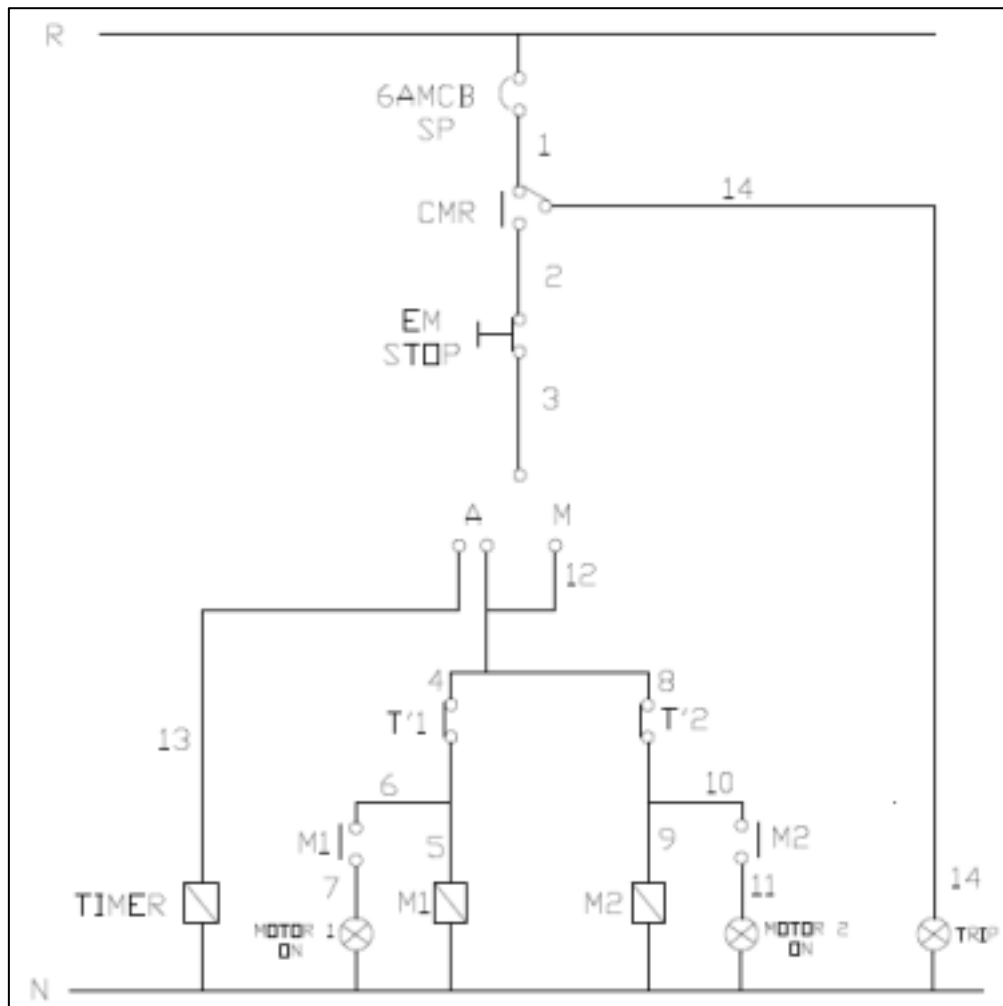


Figure 11: KC DRG ITA Control Diagram

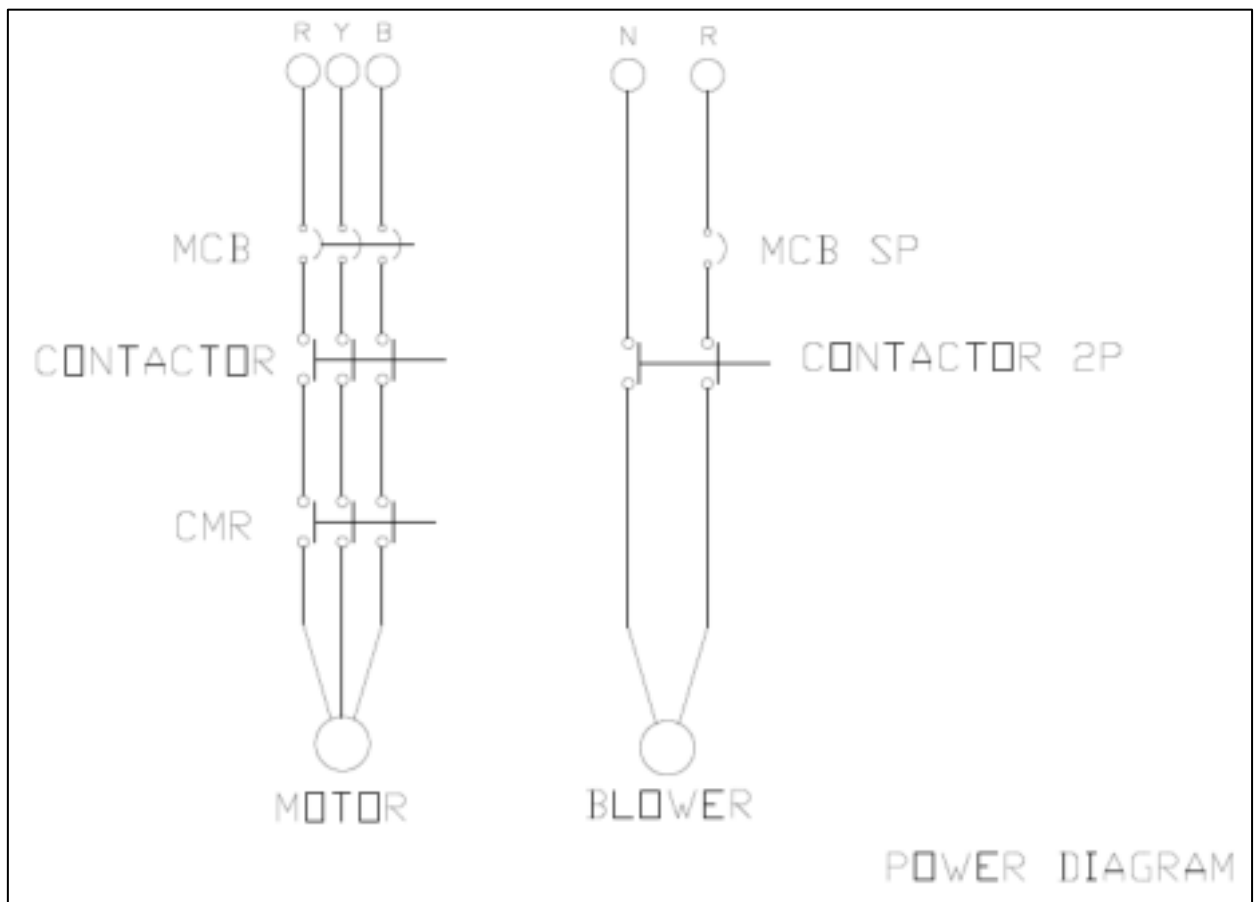


Figure 12: KC DRG ITA Power Diagram

15 FAQs

1. What are the different capacities of the Composter?

At present, ECEPL offers Composters ranging from 50 kg/day to 3000 kg/day.

2. What are the consumables required to convert organic waste into manure?

Sawdust and culture are required for the conversion.

3. Is there any alternative for sawdust?

Dry garden waste can also be used as an alternative to sawdust.

4. What happens if there is no power?

The composting culture inside the Composter can sustain around three to four days even without power.

5. What are the major maintenance tasks?

A detailed preventive maintenance guide is provided with the Composter. Negligible maintenance is required. Refer section 9 more details.

6. Can the output of the Composter be directly used for plants?

No. The output of the Composter cannot be used directly. The output needs to be kept for maturation, for about 30 to 40 days. Then only after lab testing it can be used.

7. Which grease grade is used in Gear Box?

Grease grade 320 is used in Gear Box.

16 Glossary

Compost Culture

Compost Culture consists of bacterias (Thermophilic and Mesophilic) which help in the composting process. It is used to stimulate the composting process.

Data Logging

Data logging is a collection of data from HMI/Control Panel/PLC over a period.

Exothermic Process

Exothermic Process describes a process or reaction that releases energy from the system to its surroundings, usually in the form of heat.

Sawdust

Sawdust is a waste of woodworking operations such as sawing, milling, planning, routing, drilling, and sanding. It is composed of fine particles of wood. It is a consumable powder used to make the organic waste moist with proper content.

Static IP

A static Internet Protocol (IP) address (static IP address) is a permanent number assigned to a computer by an Internet service provider (ISP).

Tremix Flooring

Tremix flooring is a special type of flooring used in the industrial sector for rigid machine foundation. It provides better wearing and tearing properties.

17 Appendices

Appendix A: Packing List

Table 15 provides the packing list.

Table 15: Packing List

Sr. No.	Description	Quantity
1	Name of product as per Purchase Order	1
2	Excise Invoice	2
3	Delivery Challan	2
4	Warranty Certificate	1
5	User Manual	1
6	Activated Carbon Filter (25 kg)	1 bag
7	Carbon tank (FRP/ SS) with blower/ capacitor	1
8	SS/PVC pipe ϕ 90 mm cut as per size	1
9	SS/PVC elbow ϕ 90 mm	2
10	Panel key	1
11	CI with split pin for selected models only	4
12	Carbon tank stand	1
13	Culture	5 kg
14	Sawdust for initial operations only	20 kg

Appendix B: Spare Parts List & Consumables List

The recommended list of spare parts is as below.

1. Blower
2. Pinion
3. Rollers
4. Bearing
5. Rubber bidding

The list of Consumables is as below.

1. Sawdust
2. Compost Culture

Spare Parts/Consumables Ordering Procedure

Procedure to order Spare Parts/Consumables is as follows.

1. Go to the website <http://www.ecepl.com>
2. On Homepage, Click **SERVICES**, and then click **SPARE PART ORDER FORM/CULTURE ORDER FORM** from drop-down list.
3. SPARE PART ORDER FORM/CLUTURE ORDER FORM appers.
4. Fill the required information and click **SEND**.
5. Payment should be by **NEFT**.
Refer http://www.ecepl.com/services/culture_order_form for NEFT details.
6. Once ECEPL gets this form, the service team will approach you.
7. Spare Parts/Consumables will be delivered to the delivery address.

For more information, please contact info@ecepl.com or call +917755912527.

Appendix C: Quality Certifications


Quality Certificates will be issued along with the Composter.

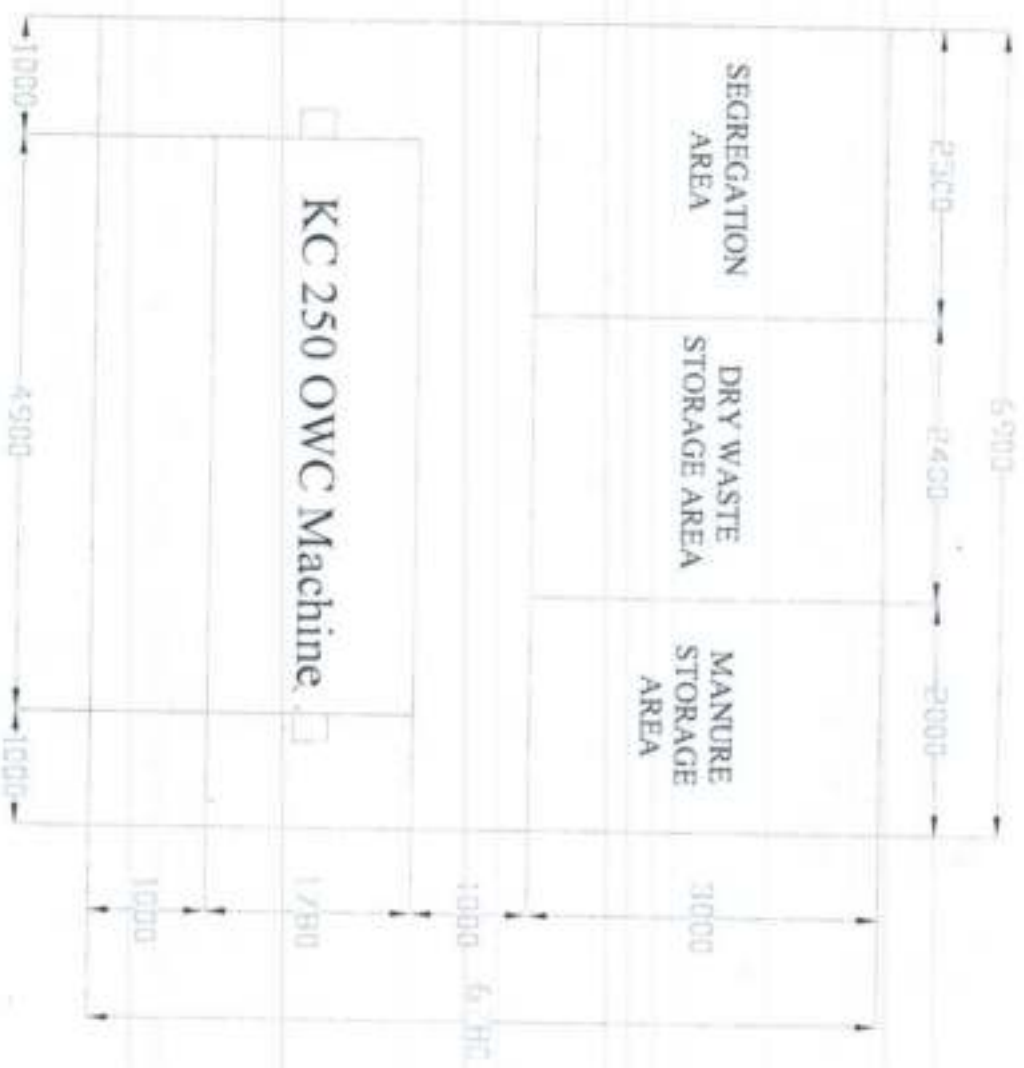
Appendix D: Warranty Certificate

Warranty Certificate will be issued along with the Composter.

Appendix E: Daily Recording of Operations

Following is the Daily Recording of Operations form. It is recommended to fill it daily.

<div>EARTH CARE EQUIPMENTS PVT. LTD. MANUFACTURER OF ORGANIC WASTE CONVERTERS</div>					
Company Identification No: U29299PN2010PTC136093					
Registered Office: 109, Soham, Udyamnagar, Pimpri, Pune 411018 (India)					
Telephone: +91-020-27430283 Cell: 099701 75716					
Email: earthcareequipments@gmail.com ; mrunalp@ecepl.com					
Web: www.earthcareequipments.com ; www.indiamart.com/earth-care/					
Customer Name:					
Site Address:					
Model:			Delivery Date:		
Date of Commissioning:					
Daily Recording of Operations					
Date	Sawdust (kg)	Culture (kg)	Customer sign	ECEPL sign	Remark

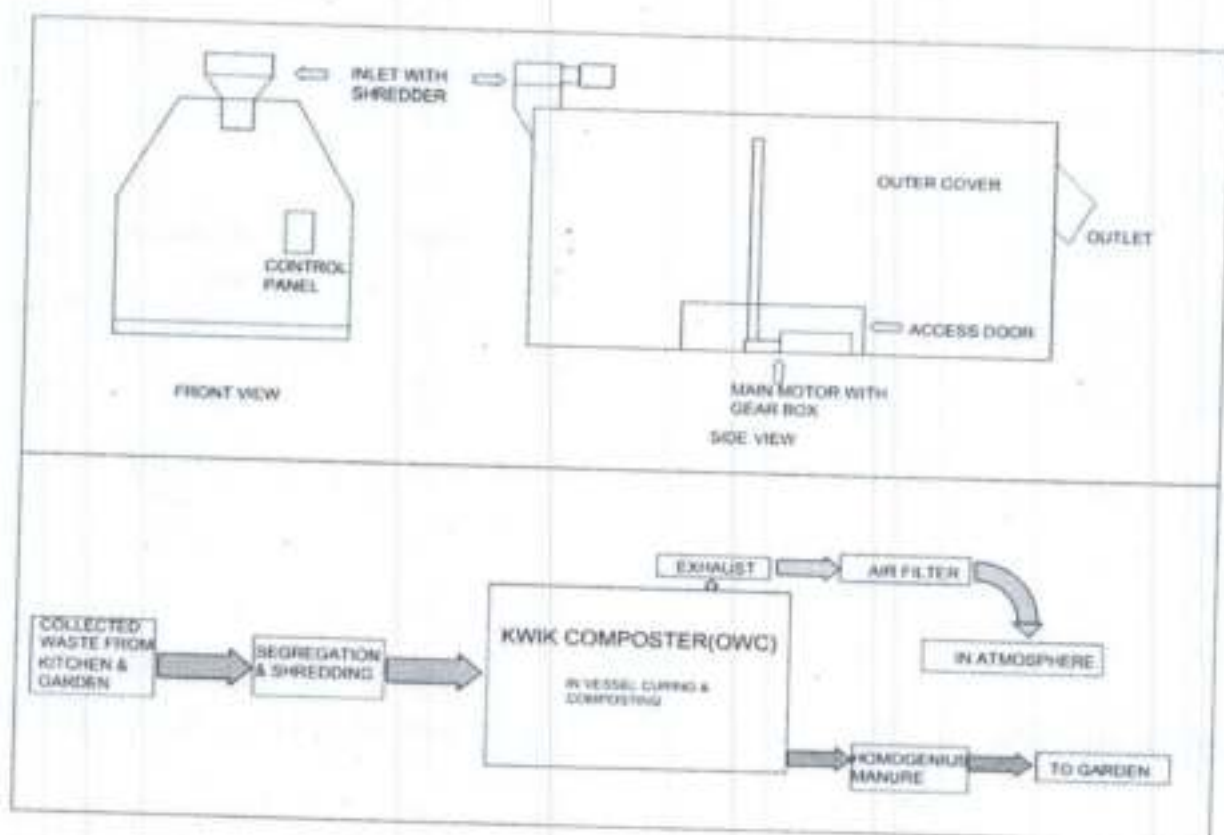
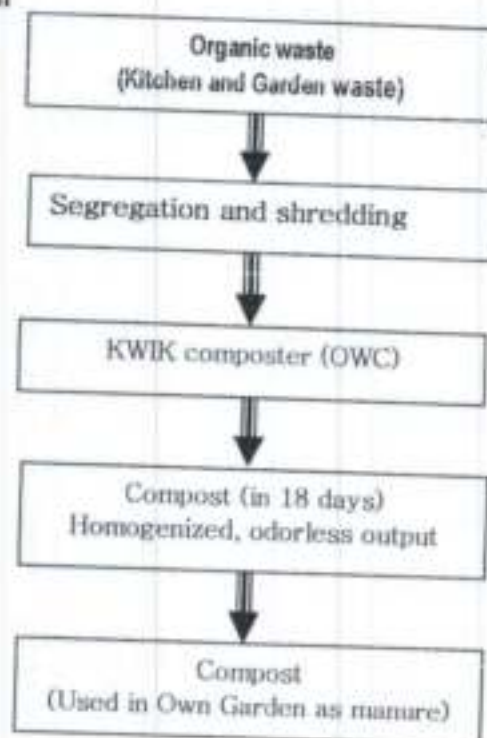


THIS DRAWING IS OUR PROPERTY, IT MUST BE REPRODUCED OR COMMUNICATED WITHOUT OUR WRITTEN AGREEMENT.

DRAWN BY: SAR DATE: 10/01/2023
 CHECKED BY: ABC DATE: 10/01/2023

DRAWING TITLE: OWC LAYOUT FOR CASTLE ROYLE
 SCALE: 1:1
 PROJECT: KC250.A.001

Process of Waste conversion





**EARTH CARE
EQUIPMENTS PVT. LTD**

Regd. Office: 109, Soham, Udyamnagar, Pimpri, Pune - 411018 • Factory: Plot No. X-8/2/2, Near Mahindra Hinodaya, Bhosari, MIDC, Pune - 411029
+91 9890660192 • +91 7709261615 • earthcareequipments@gmail.com • info@ecepl.com

Commissioning Certificate

DATE: FEBRUARY 26, 2018

To

M/S. Kolte Patil Developers Limited
STARGAZE-Common Infra PH-1
S. No: 76/77(Part), 78 To 88,91,
Village: Bawdhan Budruk,
Tal: Mulshi, Pune-411 021

Project Name: M/s. Kolte Patil Developers Limited - STARGAZE.

Subject: Commissioning Certificate of Kwik Composter KC-250

Ref: You're Po. No.: 4500024329

Our Invoice No.: ECEPL/17-18/285

Date: 17.01.2018

Date: 31.01.2018

Dear Sir/Madam,

We are pleased to inform you that we have successfully completed commissioning of your machine Kwik Composter KC-250 at your site. We also confirm that we have given necessary training to your personnel for operating the machine.
Training of the required personnel mentioned below has been trained on the Standard Operation Procedure and troubleshooting as mentioned in User Manual.

Name of the operator trained: -

You are now requested to sign & confirm the above

Sign: -

Date: -

With Best Regards,

For Earth Care Equipments Pvt. Ltd.

Authorized Signatory:

FORMAT NO: QF/AS/



CABESH ZADGE



FORMAT DATE: 02/04/2015

Thank you for your business!



ISO 9001:2008 Certified Company

Company Identification No:
U29299PA2010PTC138083



**EARTH CARE
EQUIPMENTS PVT. LTD.**

Regd. Office: 109, Saham, Udyamnagar, Pimpri, Pune - 411018 • Factory: Plot No. X-8/2/2, Near Mahindra Hinodaya, Bhosari, MIDC, Pune - 41102
+91 9890660392 • +91 7709261615 • earthcareequipments@gmail.com • info@ecepl.com

Warranty

M/s. Earth Care Equipments Private Limited, ("ECEPL") guarantee the product purchased by you to be free from defects resulting from the use of faulty parts or poor workmanship during its manufacture for a period of 1 years from the date of purchase of OWC.

The Warranty is not applicable to Electrical/Electronic Parts.

Company Name : M/s. Kolte Patil Developers Limited
Model : Kwik Composter KC-250
Invoice No : ECEPL/17-18/285
Date : 31.01.2018

Thanks!
For Earth Care Equipments Pvt. Ltd.

Authorized Signatory



Thank you for your business!



ISO 9001:2008 Certified Company

Company Identification No:
U29299PN2010PTC136083

Commissioning Certificate

DATE: FEBRUARY 26, 2018

To
M/s. Kolte Patil Developers Limited
STARGAZE-Common Infra PH-1
S. No: 76/77(Part), 78 To 88,91,
Village: Bawdhan Budruk,
Tal- Mulshi, Pune-411 021

Project Name: M/s. Kolte Patil Developers Limited - STARGAZE.

Subject: Commissioning Certificate of Kwik Composter KC-250

Ref: Your Po. No.: 4500024503
Our Invoice No.: ECEPL/17-18/324

Date:- 01.02.2018
Date:- 22.02.2018

Dear Sir/Madam,

We are pleased to inform you that we have successfully completed commissioning of your machine Kwik Composter KC-250 at your site. We also confirm that we have given necessary training to your personnel for operating the machine.

Training of the required personnel mentioned below has been trained on the Standard Operation Procedure and troubleshooting as mentioned in User Manual.

Name of the operator trained: -

Sign: -

Date: -

You are now requested to sign & confirm the above

With Best Regards,

For Earth Care Equipments Pvt. Ltd.

Authorized Signatory:

FORMAT NO: QF/AS/11 REV NO.:01



GANESH YADGE
9122340306
Received



FORMAT DATE: 02/04/2015

Thank you for your business!



ISO 9001:2008 Certified Company

Company Identification No:
U29299PN2010P1C136003



**EARTH CARE
EQUIPMENTS PVT. LTD.**

Regd. Office: 109, Soham, Udyamnagar, Pimpri, Pune - 411018 • Factory: Plot No. X-8/2/2, Near Mahindra Hinodaya, Bhosari, MIDC, Pune - 411018 • +91 9890660392 • +91 7709261615 • earthcareequipments@gmail.com • info@ecepl.com

Warranty

M/s. Earth Care Equipments Private Limited, ("ECEPL") guarantee the product purchased by you to be free from defects resulting from the use of faulty parts or poor workmanship during its manufacture for a period of 1 years from the date of purchase of OWC.

The Warranty is not applicable to Electrical/Electronic Parts.

Company Name : M/s. Kolte Patil Developers Limited
Model : Kwik Composter KC-250
Invoice No : ECEPL/17-18/324
Date : 22.02.2018

Thanks!

For Earth Care Equipments Pvt. Ltd.

Authorized Signatory



Thank you for your business!



ISO 9001:2008 Certified Company

Company Identification No:
U25295PN2010PTC136093

www.earthcareequipments.com • www.ecepl.com

Annexure V

STP Details

Sewage treatment Plant

STP Capacity:

STP I: 465 Cum for Residential Buildings

STP II: 35 Cum for School

Sewage treatment plants are planned in below the ground depending on possibility of excavation. We propose the extended aeration technology to treat the domestic sewage. The details of system to be used shall be briefly mentioned below. The quantity of wastewater estimated to be generated from the proposed residential towers & amenity bldg estimated to be 486 m³/day. The wastewater is expected to have the following characteristics:

BOD : 300-350 mg/l

COD : 600-800 mg/l

SS : 250-350 mg/l

The wastewater is to be treated to such levels so as to make it fit for use for gardening and for flushing toilets. It should be brought to a COD of 30 mg/l or lesser and BOD of 10 mg/l or lesser. The treatment plant should accordingly consist of the following steps.

Screen

The screens should be capable of removing floating debris and other coarse material typically found in sewage. This would prevent clogging of pipes and damage to downstream equipment such as pumps.

Equalization tank

An equalization tank should be provided to ensure near-constant flow-rate in order to overcome the operational problems that are caused by flow-rate variations.

Primary sedimentation unit

A typical circular primary sedimentation tank may be employed for the removal of the readily settleable solids from the sewage.

Biological treatment unit

The biodegradation of the organic matter content may be carried out by using either the activated sludge process or extended aeration process, depending on the space and power considerations. Primary sedimentation and biological treatment unit could be a combined unit also if desired if space is a constraint.

Secondary clarifier

A clarifier may be used to settle the biomass contained in the effluent from the biological treatment unit. The sludge from this unit should be sent to the sludge drying beds. The dried sludge may be composted and used as manure in the gardens.

Rapid sand filter

The remaining suspended solids in the wastewater have to be removed by passing the wastewater through the rapid sand filter.

Activated carbon filter

This unit is essential for removing the colour and odour from the wastewater, along with removal of the remaining biodegradable and non-biodegradable organics and heavy metals that may be present.

Ultraviolet The treated wastewater should be disinfected by ultraviolet.

Characteristics of sewage before and after treatment			
	Parameter	Value (mg/L)	
		Before	After
1	pH	7 - 7.5	6.5 - 7.5
2	Total Suspended Solids	200 - 300	< 10
3	Total Oil & Grease	10	< 5
4	BOD @ 3 days 27 ^o C	200 -300	< 10
5	COD	350 - 400	< 50
6	TDS	--	<1000
7	Total Nitrogen	40 - 50	≤ 10
8	Ammonical Nitrogen as Nitrogen	--	≤ 1
9	Phosphates	5 - 7	≤ 2
10	Faecal Coliforms	Nil	ND

FRIDAY, JANUARY 1, 2016

Sakal Times

Health dept fails to deal

the inspection, it was found that large amount of hazardous chemical waste is being released in the river. All concerned authorities had decided to take steps for curbing the menace but no action has been taken till date.

Following this, Regional Officer of MPCB asked Executive Engineer to take action against illegal scrap dealers, those releasing chemical waste and also instructed to file report of action taken and submit it to

instead of taking any action, sent a reply to MPCB, saying the PCMC has not allowed any industry or scrap dealer to operate in the area and claimed that MPCB itself has given consent to some industries.

In September, MPCB's letter to PCMC clarified that MPCB has given consent to some industries for disposal of scrap. But, it has not given any permission to scrap dealers. Hence, PCMC must take action against these dealers and submit a report to MPCB. No action has

strict action against them. So MPCB is the appropriate authority to take action. We have conveyed our inability to the MPCB."

On the other hand, Deputy Regional Officer of MPCB Salunkhe, said, "The responsibility of closing illegal scrap godowns rests with PCMC. It must act against illegal scrap dealers. If PCMC does not allow them to function, then, there is no question of any pollution. If the civic body fails to act, MPCB can recommend legal action against PCMC."

Mayor Shakuntala Dhar has questioned MP Shrin Barne's involvement in Pimpri Chinchwad Municipal Corporation's functioning, saying that he should stay away from interfering in day-to-day matters of civic body.

The reaction came wake of Barne's meet with PCMC Commissioner over various pending works. Dharade said, "MP should concentrate the issues related to Central government, as National Congress Party-led corporation is capable of solving problems. So, there is no need to interfere in functioning of civic body."

She emphasised the need for Barne to clear pending issues at Central level. "There are many pending issues in the city which are referred to Central government and those issues need to be addressed by the Member of Parliament. But must concentrate on issues such as red zone, near the Defence authorities and financial crisis of Hindustan Antibiotics Limited."

She suggested the must ask corporators in his party to raise issues in the ward meetings instead, as they are the elected members of PCMC.

PUBLIC NOTICE

All that piece and parcel of land which is more particularly described in the Schedule written herein under is the ancestral property of Shri. Gokuldas Gangaram Mandekar residing at post Ambethan, Taluka Khedi, District Pune.

The said owner has assured that the said property is free from all encumbrances and is not the subject matter of any mortgage, lien, lease, charge, agreement, easement, power of attorney or any right, over the said property and no any judicial proceeding is pending pertaining to the said property. Any person having any claim should within a period of ten days from the date of publication of this public notice, intimate the same in writing to the undersigned along with the original documents on the address mentioned herein below. Failing which it shall be presumed that you have relinquished and waived your right if any and accordingly my client will be free to complete the transaction and no claims will be entertained thereafter.

Schedule : Land bearing Gat No. 281 totally admeasuring 0 H 23 Aar, assessed at Re. 00.66 paise situate lying at village Ambethan, Taluka Khedi, District Pune and bounded as follows : East : Gat No. 276 owned by Anand Sopana Mandekar, South : Gat No. 288 owned by Gokuldas Gangaram Mandekar, West : Gat No. 282 owned by Subhash Mandekar, North : Gat No. 280 owned by Gajadu Mandekar.

Along with all appurtenances thereto.

Anand G. Gangakhedkar, Advocate
Gangakhedkar & Associates
Office No. 1, Moriya Apartment,
252, Shamwar Path, Pune 411 030.
Ph. : 829-24473940.

PUBLIC NOTICE

This is to inform the public in general that M/s. Kohn-Puff Developers Ltd. have been accorded with the Environmental Clearance by State Environment Impact Assessment Authority, Maharashtra (Government of Maharashtra for their construction project at Bavdhan, S. No. 76-1, 77-1 & 78-1 (P) & 79-1 (P) & 80-1 (P) & 81-1 (P) & 82-1 (P) & 83-1 (P) & 84-1 (P) & 85-1 (P) & 86-1 (P) & 87-1 (P) & 88-1 (P) & 89-1 (P) & 90-1 (P) & 91-1 (P) & 92-1 (P) & 93-1 (P) & 94-1 (P) & 95-1 (P) & 96-1 (P) & 97-1 (P) & 98-1 (P) & 99-1 (P) & 100-1 (P) & 101-1 (P) & 102-1 (P) & 103-1 (P) & 104-1 (P) & 105-1 (P) & 106-1 (P) & 107-1 (P) & 108-1 (P) & 109-1 (P) & 110-1 (P) & 111-1 (P) & 112-1 (P) & 113-1 (P) & 114-1 (P) & 115-1 (P) & 116-1 (P) & 117-1 (P) & 118-1 (P) & 119-1 (P) & 120-1 (P) & 121-1 (P) & 122-1 (P) & 123-1 (P) & 124-1 (P) & 125-1 (P) & 126-1 (P) & 127-1 (P) & 128-1 (P) & 129-1 (P) & 130-1 (P) & 131-1 (P) & 132-1 (P) & 133-1 (P) & 134-1 (P) & 135-1 (P) & 136-1 (P) & 137-1 (P) & 138-1 (P) & 139-1 (P) & 140-1 (P) & 141-1 (P) & 142-1 (P) & 143-1 (P) & 144-1 (P) & 145-1 (P) & 146-1 (P) & 147-1 (P) & 148-1 (P) & 149-1 (P) & 150-1 (P) & 151-1 (P) & 152-1 (P) & 153-1 (P) & 154-1 (P) & 155-1 (P) & 156-1 (P) & 157-1 (P) & 158-1 (P) & 159-1 (P) & 160-1 (P) & 161-1 (P) & 162-1 (P) & 163-1 (P) & 164-1 (P) & 165-1 (P) & 166-1 (P) & 167-1 (P) & 168-1 (P) & 169-1 (P) & 170-1 (P) & 171-1 (P) & 172-1 (P) & 173-1 (P) & 174-1 (P) & 175-1 (P) & 176-1 (P) & 177-1 (P) & 178-1 (P) & 179-1 (P) & 180-1 (P) & 181-1 (P) & 182-1 (P) & 183-1 (P) & 184-1 (P) & 185-1 (P) & 186-1 (P) & 187-1 (P) & 188-1 (P) & 189-1 (P) & 190-1 (P) & 191-1 (P) & 192-1 (P) & 193-1 (P) & 194-1 (P) & 195-1 (P) & 196-1 (P) & 197-1 (P) & 198-1 (P) & 199-1 (P) & 200-1 (P) & 201-1 (P) & 202-1 (P) & 203-1 (P) & 204-1 (P) & 205-1 (P) & 206-1 (P) & 207-1 (P) & 208-1 (P) & 209-1 (P) & 210-1 (P) & 211-1 (P) & 212-1 (P) & 213-1 (P) & 214-1 (P) & 215-1 (P) & 216-1 (P) & 217-1 (P) & 218-1 (P) & 219-1 (P) & 220-1 (P) & 221-1 (P) & 222-1 (P) & 223-1 (P) & 224-1 (P) & 225-1 (P) & 226-1 (P) & 227-1 (P) & 228-1 (P) & 229-1 (P) & 230-1 (P) & 231-1 (P) & 232-1 (P) & 233-1 (P) & 234-1 (P) & 235-1 (P) & 236-1 (P) & 237-1 (P) & 238-1 (P) & 239-1 (P) & 240-1 (P) & 241-1 (P) & 242-1 (P) & 243-1 (P) & 244-1 (P) & 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743-1 (P) & 744-1 (P) & 745-1 (P) & 746-1 (P) & 747-1 (P) & 748-1 (P) & 749-1 (P) & 750-1 (P) & 751-1 (P) & 752-1 (P) & 753-1 (P) & 754-1 (P) & 755-1 (P) & 756-1 (P) & 757-1 (P) & 758-1 (P) & 759-1 (P) & 760-1 (P) & 761-1 (P) & 762-1 (P) & 763-1 (P) & 764-1 (P) & 765-1 (P) & 766-1 (P) & 767-1 (P) & 768-1 (P) & 769-1 (P) & 770-1 (P) & 771-1 (P) & 772-1 (P) & 773-1 (P) & 774-1 (P) & 775-1 (P) & 776-1 (P) & 777-1 (P) & 778-1 (P) & 779-1 (P) & 780-1 (P) & 781-1 (P) & 782-1 (P) & 783-1 (P) & 784-1 (P) & 785-1 (P) & 786-1 (P) & 787-1 (P) & 788-1 (P) & 789-1 (P) & 790-1 (P) & 791-1 (P) & 792-1 (P) & 793-1 (P) & 794-1 (P) & 795-1 (P) & 796-1 (P) & 797-1 (P) & 798-1 (P) & 799-1 (P) & 800-1 (P) & 801-1 (P) & 802-1 (P) & 803-1 (P) & 804-1 (P) & 805-1 (P) & 806-1 (P) & 807-1 (P) & 808-1 (P) & 809-1 (P) & 810-1 (P) & 811-1 (P) & 812-1 (P) & 813-1 (P) & 814-1 (P) & 815-1 (P) & 816-1 (P) & 817-1 (P) & 818-1 (P) & 819-1 (P) & 820-1 (P) & 821-1 (P) & 822-1 (P) & 823-1 (P) & 824-1 (P) & 825-1 (P) & 826-1 (P) & 827-1 (P) & 828-1 (P) & 829-1 (P) & 830-1 (P) & 831-1 (P) & 832-1 (P) & 833-1 (P) & 834-1 (P) & 835-1 (P) & 836-1 (P) & 837-1 (P) & 838-1 (P) & 839-1 (P) & 840-1 (P) & 841-1 (P) & 842-1 (P) & 843-1 (P) & 844-1 (P) & 845-1 (P) & 846-1 (P) & 847-1 (P) & 848-1 (P) & 849-1 (P) & 850-1 (P) & 851-1 (P) & 852-1 (P) & 853-1 (P) & 854-1 (P) & 855-1 (P) & 856-1 (P) & 857-1 (P) & 858-1 (P) & 859-1 (P) & 860-1 (P) & 861-1 (P) & 862-1 (P) & 863-1 (P) & 864-1 (P) & 865-1 (P) & 866-1 (P) & 867-1 (P) & 868-1 (P) & 869-1 (P) & 870-1 (P) & 871-1 (P) & 872-1 (P) & 873-1 (P) & 874-1 (P) & 875-1 (P) & 876-1 (P) & 877-1 (P) & 878-1 (P) & 879-1 (P) & 880-1 (P) & 881-1 (P) & 882-1 (P) & 883-1 (P) & 884-1 (P) & 885-1 (P) & 886-1 (P) & 887-1 (P) & 888-1 (P) & 889-1 (P) & 890-1 (P) & 891-1 (P) & 892-1 (P) & 893-1 (P) & 894-1 (P) & 895-1 (P) & 896-1 (P) & 897-1 (P) & 898-1 (P) & 899-1 (P) & 900-1 (P) & 901-1 (P) & 902-1 (P) & 903-1 (P) & 904-1 (P) & 905-1 (P) & 906-1 (P) & 907-1 (P) & 908-1 (P) & 909-1 (P) & 910-1 (P) & 911-1 (P) & 912-1 (P) & 913-1 (P) & 914-1 (P) & 915-1 (P) & 916-1 (P) & 917-1 (P) & 918-1 (P) & 919-1 (P) & 920-1 (P) & 921-1 (P) & 922-1 (P) & 923-1 (P) & 924-1 (P) & 925-1 (P) & 926-1 (P) & 927-1 (P) & 928-1 (P) & 929-1 (P) & 930-1 (P) & 931-1 (P) & 932-1 (P) & 933-1 (P) & 934-1 (P) & 935-1 (P) & 936-1 (P) & 937-1 (P) & 938-1 (P) & 939-1 (P) & 940-1 (P) & 941-1 (P) & 942-1 (P) & 943-1 (P) & 944-1 (P) & 945-1 (P) & 946-1 (P) & 947-1 (P) & 948-1 (P) & 949-1 (P) & 950-1 (P) & 951-1 (P) & 952-1 (P) & 953-1 (P) & 954-1 (P) & 955-1 (P) & 956-1 (P) & 957-1 (P) & 958-1 (P) & 959-1 (P) & 960-1 (P) & 961-1 (P) & 962-1 (P) & 963-1 (P) & 964-1 (P) & 965-1 (P) & 9

Date: 05.12.2022

To,
Member Secretary
Maharashtra Pollution Control Board
4th Floor, Kalpataru Point,
Opp. Cine Planet, Near Sion Circle, Sion (E)
Mumbai- 400 022

Sub : Submission of 6 monthly monitoring report as per condition in Environmental Clearance for proposed residential at Sr. No 76 (P), 77 (P), 77/2, 80, 81 (P), 82, 83 (P), 84 (P), 85/2, 86 (P), 87 (P), 88 at Bavdhan (Bk.), Pune. Maharashtra.

Ref: Environmental Department – Environmental Clearance file no. SEAC-III-2014/CR-291/TC-3 (Copy attached)

Respected Sir,

We are submitting 6 monthly monitoring report as per condition in Environmental Clearance File No. SEAC-III-2014/CR-291/TC-3/dtd. 10 Dec. 2015

1. Present Status of Project Work Progress

The tower A, B, C, D, E, F building & Club House work is completed. Buildings G, H, I, J & K work is in progress

Name & address of local & Nodal Officer with e-mail, Phone & fax number

Name : Mr. Vinayak Jogdeo
Address : Kolte Patil Developers Ltd., 2nd Floor, City Point, Dhole Patil Road, Pune 01.
Phone No : +91 20 66226622,
Email : amruta.kale@koltepatil.com
Fax No. : +91 20 66226626
Mobile No. : 9765551033

2. Point wise Compliance Status to various stipulations as laid down by the Ministry is enclosed for your reference.
3. Copies of EIA/EMP/Consent to Establish from MPCB
The Copies of Form 1 & Form 1A already send to MoEF We have received consent to Establish from MPCB vide letter format 1.0 BO/CAC-Cell/UAN NO.0000026267/E/9th CAC-1903001471 DATED 26/03/2019.
4. The information is duly filled in the enclosed data sheet.
5. Also find enclosed the hard/soft copies of half yearly point wise compliance status.

Thanking You,
Yours truly,
For Kolte Patil Developers. LTD.



Authorized Signatory



महाराष्ट्र प्रदूषण नियंत्रण मंडळ
कलपतारु पॉइंट, २ रा मंजला, धोले पाटील रोड,
सिवसेनगर इमो. नाथन (पूर्व),
मुंबई - ४०० ०२२.
फोन :- २४०१०२३३ / २४०२०३६१
Website www.mpcb.gov.in

KOLTE-PATIL DEVELOPERS LTD.

CIN : LA5200PN1991PLC129428



KP-EC Compliance Reports <koltepatil.eccompliance@gmail.com>

Half yearly compliance report for December 2022 for Stargaze project

1 message

KP-EC Compliance Reports <koltepatil.eccompliance@gmail.com>

Wed, Dec 7, 2022 at 10:17 AM

To: ecompliance-mh@gov.in

Cc: amruta.kale@koltepatil.com

Dear Sir/ Madam,

Enclosed the Half yearly Compliance report of December 2022 for Stargaze project

Thanks & Regards,

Kiran Kokamkar

Kolte Patil Developers Ltd. (HO)

City Bay, 7th Floor,

Dhole Patil Road, Pune 001



EC Compliance report Dec. 2022 Stargaze.pdf

7124K



Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2023

Unique Application Number

MPCB-ENVIRONMENT_STATEMENT-0000053303

Submitted Date

22-05-2023

PART A

Company Information

Company Name

M/s. Kolte Patil Developers Pvt. Ltd. "Stargaze"

Application UAN number

UAN No.0000117161

Address

S. No. 76/1, 77/1+2(p), 78/1(p)+ 2+3(p)
+5(p)+79/1(p) +2+3(p)
+4+5(p)+81/1(p)+2+3+4(p)+ 82/1(p)+2+ 83/1+2
+3(p) +4+5(p) +6(p) +84/1+2(p)+3(p)+85/2
+86/1+3+4+5(p) +6+7(p) +8(p)
+87/1+2(p)+3+88/1 to 5+9

Plot no

S. No. 76/1, 77/1+2(p), 78/1(p)+ 2+3(p)
+5(p)+79/1(p) +2+3(p)
+4+5(p)+81/1(p)+2+3+4(p)+ 82/1(p)+2+ 83/1+2
+3(p) +4+5(p) +6(p) +84/1+2(p)+3(p)+85/2
+86/1+3+4+5(p) +6+7(p) +8(p)
+87/1+2(p)+3+88/1 to 5+9

Taluka

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Village

Bavdhan

Capital Investment (In lakhs)

10611

Scale

LSI

City

Pune

Pincode

412021

Person Name

Mr. Vinayak Jogdeo

Designation

Vice President

Telephone Number

9765551033

Fax Number

Email

Koltepatildeveloper91@gmail.com

Region

SRO-Pune II

Industry Category

Orange

Industry Type

O21 Building and construction project
more than 20,000 sq. m built up area

Last Environmental statement submitted online

yes

Consent Number

Format1.0/CC/UAN
No.0000117161/CR/2205000749

Consent Issue Date

2022-05-12

Consent Valid Upto

2024-02-28

Establishment Year

2007

Date of last environment statement submitted

Sep 22 2022 12:00:00:000AM

Industry Category Primary (STC Code) & Secondary (STC Code)

Product Information

Product Name

This is a construction of Residential project.

Consent Quantity

0

Actual Quantity

0

UOM

CMD

By-product Information

By Product Name	Consent Quantity	Actual Quantity	UOM
NA	0	0	CMD

Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day

Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day
Cooling	0.00	0.00
Domestic	376.00	376.00
All others	0.00	0.00
Total	376.00	376.00

2) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
Sewage Generation	299	299	CMD

2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)

Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
NA	0	0	CMD

3) Raw Material Consumption (Consumption of raw material per unit of product)

Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
NA	0	0	CMD

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
HSD	35	35	Ltr/Hr

Part-C

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

[A] Water

Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
As per Analysis Reports (Copy enclosed).	0	0	As per Analysis Reports (Copy enclosed).	As per Analysis Reports (Copy enclosed).	As per Analysis Reports (Copy enclosed).

[B] Air (Stack)

Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/NM3) Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
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As per Analysis Reports (Copy enclosed).	0	0	As per Analysis Reports (Copy enclosed).	As per Analysis Reports (Copy enclosed).	As per Analysis Reports (Copy enclosed).
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Part-D

HAZARDOUS WASTES			
1) From Process			
Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	00	CMD
2) From Pollution Control Facilities			
Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	CMD

Part-E

SOLID WASTES			
1) From Process			
Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Biodegradable Waste	661.7	661.7	Kg
Biodegradable Waste	661.7	661.7	Kg
Non biodegradable Waste	405.5	405.5	Kg
Non biodegradable Waste	405.5	405.5	Kg
STP	29.98	29.98	Kg
STP	29.98	29.98	Kg
2) From Pollution Control Facilities			
Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
As per Consent (Copy Enclosed)	0	0	CMD
3) Quantity Recycled or Re-utilized within the unit			
Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	CMD

Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.			
1) Hazardous Waste			
Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
0	0	CMD	NA
2) Solid Waste			
Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
NA	0	CMD	NA

Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
NA	0	0	0	0	0	0

Part-H

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.

[A] Investment made during the period of Environmental Statement

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
The treated effluent is used for gardening, regularly monitoring Of Waste Water, Regularly monitoring Of Air , Noise, Disposed of Hw.	The treated effluent is used for gardening, regularly monitoring Of Waste Water, Regularly monitoring Of Air , Noise, Disposed of Hw.	00

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
The treated effluent is used for gardening, regularly monitoring Of Waste Water, Regularly monitoring Of Air , Noise, Disposed of Hw.	The treated effluent is used for gardening, regularly monitoring Of Waste Water, Regularly monitoring Of Air , Noise, Disposed of Hw.	00

Part-I

Any other particulars for improving the quality of the environment.

Particulars

1. The company have done extensive plantation in a factory premises and successfully grown so more land under planting. 2. Medicinal checkup done regularly for all employees 3. Safety training for the workers is an organized process 4. The company is constantly monitoring the Air, stack, Waste water, noise in an around the plant and ensures that the norms are maintained. 5. The company celebrates the WORLD ENVIRONMENT DAY every year.

Name & Designation

Mr. Vinayak Jogdeo (Vice President)

UAN No:

MPCB-ENVIRONMENT_STATEMENT-0000053303

Submitted On:

22-05-2023

Annexure 10 - Site Photographs



Annexure 10 - Site Photographs

Green Belt Development with in site



Annexure 10 - Site Photographs

DG set



480 KLD STP BLDG.



Annexure 10 - Site Photographs

First Aid Room



Mobile Toilets for Workers



Drinking water Facility for Workers

