

F.No.21-261/2017-IA-III
Government of India
Ministry of Environment, Forest and Climate Change
(IA.III Section)

Indira Paryavaran Bhawan,
Jor Bagh Road, New Delhi - 3

Date: 23rd October, 2017

To,

M/s Matrix Developers Pvt. Ltd.
PSC House, CTS No. 111+111/
Anand Colony, Near Suvarnarekha Dining Hall,
Off Prabhat Road, Pune- 411004 (Maharashtra)

E Mail: nidhi@pscl.in

Subject: Proposed Expansion of Integrated Township Project "Forest Trails" at Village Bhugaon, Taluka Mulshi, Pune, Maharashtra by M/s Matrix Developers Pvt Ltd - Environmental Clearance - reg.

Sir,

This has reference to your online proposal No. IA/MH/MIS/66186/2014 dated 13th June 2017, submitted to this Ministry for grant of Environmental Clearance (EC) in term of the provisions of the Environment Impact Assessment (EIA) Notification, 2006 under the Environment (Protection) Act, 1986.

2. The proposal for grant of environmental clearance to the project 'Proposed Expansion of Integrated Township Project "Forest Trails" at Village Bhugaon, Taluka Mulshi, Pune, Maharashtra promoted by M/s Matrix Developers Pvt Ltd, was considered by the Expert Appraisal Committee (Infra-2) in its meeting held on 21-24 August, 2017. The details of the project, as per the documents submitted by the project proponent, and also as informed during the above meeting, are under:-

- (i) The project is located at 18°30'14.36" N latitude and 73°44'23.82" E longitude.
- (ii) The project is Expansion of Integrated Township project at CTS No., 16/1, 19/1, 19/1, 21/1, 21/1/2, 35/1, 35/2, 36, 36(p), 38/1, 40/1, 44/5, 80/1, 83(p), 84/1, 84/2, 84/2(p), 85/1A, 85/1B, 86/1A/1(p), 86/1A/2(p), 88/1, 88/2(p), 88/3(p), 89/1, 89/2, 90/2(p), 91, 92/1, 92/2, 93/1, 93/2, 94, 95, 96/1, 96/2, 97(p), 98, 99/1, 99/2, 99/3, 100/1/1, 100/1/2, 100/2, 101/1(p), 101/2(p), 102/1/1, 102/1/2, 102/1/3, 102/2, 102/3/1(p), 102/3/2, 102/4, 102/5, 103/1/1A, 103/1/1B, 103/2, 103/3, 106/2B/2, 106/2B/3, 106/2B/4, 106/2C/2, 106/2C/3, 106/2 C/4, 106/3, 106/4, 112, 102/1/3(p), 113/1/1 to 113/1/7 at village Bhugaon, Tal- Mulshi, Dist - Pune, Maharashtra.
- (iii) Earlier environmental clearance was accorded by the MoEF&CC vide letter No. 21-520/2007-IA.III Dated 31st March, 2008 and subsequently validity was extended vide letter dated 18th May 2013 by SEIAA, Maharashtra.
- (iv) The plot area is 7,69,195 sqm, FSI area is 4,05,748.73 sqm and total construction area is 6,79,837.73 sqm. The proposed development will have Residential buildings 51 Nos., Row houses/ Bungalows/Twin bungalows 262 Nos., EWS units 926 Nos., Commercial shops 100 Nos., Health facilities-1, Club Houses-7, Town Hall, Library and Restaurant- 1, Multipurpose Hall-1, Stud Farm+Pavilion-2, & School-1. Maximum height of the building is 69.37 m.

- (v) During construction phase, total water requirement is expected to be 100 KLD which will be met by tanker water / treated water from STP. During the construction phase, soak pits and septic tanks will be provided for disposal of waste water. Temporary sanitary toilets will be provided.
- (vi) During operational phase, total water demand of the project is expected to be 3811 KLD and same will be met by fresh water from Mula River through Irrigation Department. Wastewater generated (3232 KLD) uses will be treated in STP of 3480 KLD capacity. 1281 KLD of treated water will be recycled for flushing, about 1384 KLD for gardening.
- (vii) About 12,444 kg/d solid waste will be generated in the project. The biodegradable waste (7264 kg/d) will be processed in mechanical composting and the non-biodegradable waste 3936 kg/d will be handed over to recyclers. The inert material (1244 kg/d) will be sent to Landfill Site.
- (viii) The total power requirement during construction phase is 100 kVA and will be met from MSEDCL and Total power requirement during operation phase is 12.3 MW (demand Load) and will be met from MSEDCL.
- (ix) The groundwater will be recharged through 53 recharge pits.
- (x) Parking facility for 3901 Nos. four wheelers and 8482 Nos. two wheelers are proposed to be provided against the requirement of 3901 Nos. four wheelers and 8482 Nos. two wheelers respectively (as per local norms). Also parking for 7 Bus and 1 Ambulance is provided.
- (xi) Energy saving of total 20%.
- (xii) Site is not located within 10 km of any National Park (Eco Sensitive Zone).
- (xiii) There is no court case pending against the project.
- (xiv) The proposal was considered by SEAC-3 (Non-MMR), Maharashtra in its 13th meeting held on 15.07.2014 and recommended for ToR.
- (xv) Investment/Cost of the project is Rs. 976 Crore.
- (xvi) Employment potential: During Construction 200 Nos. Workers, During Operation Commercial Shops/Offices - 800 Nos. Employees; Township Staff - 100 Nos.
- (xvii) Benefits of the project: This Project is basically self-sustaining in nature. The project includes Residential, Commercial, School etc different components which form an integrated township in the area. Integrated townships are mini cities, on the outskirts of big cities and offer essential facilities like housing, education, work place, shopping, healthcare etc in a relatively small area. Integrated townships provide an added advantage of development. As compared to standalone buildings apartments in integrated townships offer better return on investments. Also, the project will generate employment (Labour employment of household activity) during operational phase which will benefit the local population in getting work opportunities. It will create long term employment in activities such as maintenance of the buildings and ancillary services.

4. The EAC, in its meeting held on 21-24 August, 2017, after detailed deliberations on the proposal, has recommended for grant of Environmental Clearance to the project. As per recommendations of the EAC, the Ministry of Environment, Forest and Climate Change hereby accords Environmental Clearance to the project 'Proposed Expansion of Integrated Township Project "Forest Trails" at

Village Bhugaon, Taluka Mulshi, Pune, Maharashtra promoted by M/s Matrix Developers Pvt Ltd, under the provisions of the EIA Notification, 2006 and amendments/circulars issued thereon, and subject to the specific and general conditions as under:-

PART A – SPECIFIC CONDITIONS:

I. Construction Phase

- (i) The project proponent shall obtain all necessary clearance/ permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.
- (ii) Sewage shall be treated in the STP based on MBBR Technology with tertiary treatment i.e. Ultra Filtration. The treated effluent from STP shall be recycled/re-used for flushing, horticulture & DG cooling. Excess treated water shall be discharged to municipal Sewer/ nearby Construction Works.
- (iii) The local bye-law provisions on rain water harvesting should be followed. If local bye-law provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. As proposed, 53 nos. of rain water recharge pits shall be provided as per CGWB guidelines.
- (iv) The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
- (v) Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3 meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murrum and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site. Sand, murrum, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution. Wet jet shall be provided for grinding and stone cutting. Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.
- (vi) All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules, 2016. All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.
- (vii) Provisions 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, creche etc. The

housing may be in the form of temporary structures to be removed after the completion of the project.

- (viii) At least 20% of the open spaces as required by the local building bye-laws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.
- (ix) Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC. Outdoor and common area lighting shall be LED. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.
- (x) Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.
- (xi) Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc and other for supply of recycled water for flushing, landscape irrigation, car washing, thermal cooling, conditioning etc. shall be done.
- (xii) Separation of grey and black water should be done by the use of dual plumbing system. In case of single stack system separate recirculation lines for flushing by giving dual plumbing system be done.
- (xiii) Solar based electric power shall be provided to each unit for at least two bulbs/light and one fan. As proposed, central lighting and street lighting shall also be based on solar power.
- (xiv) A First Aid Room shall be provided in the project both during construction and operations of the project.
- (xv) Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.
- (xvi) Disposal of muck during construction phase shall 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.
- (xvii) The diesel generator sets to be used during construction phase shall be low sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise emission standards.
- (xviii) Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
- (xix) As proposed, no ground water shall be used during construction/ operation phase of the project.
- (xx) Approval of the CGWA require before any dewatering for basements.
- (xxi) The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of firefighting equipment

etc as per National Building Code including protection measures from lightening etc.

- (xxii) Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
- (xxiii) 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 be operated only during non-peak hours.
- (xxiv) Ambient noise levels shall conform to residential standards both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB / SPCB.
- (xxv) Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environment friendly materials. Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003 and 25th January, 2016. Ready mixed concrete must be used in building construction.
- (xxvi) A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria.
- Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.
 - Traffic calming measures
 - Proper design of entry and exit points.
 - Parking norms as per local regulation
- (xxvii) Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials. Wet garbage shall be composted in Organic Waste Converter. 350 m² space shall be provided for solid waste management within the premises which will include area for segregation, composting. The inert waste from group housing project will be sent to dumping site.
- (xxviii) Project Proponent should comply with conditions stipulated at Appendix - XIV of the amended EIA Notification vide S.O. 3999(E) dated 09.12.2016.

II. Operational Phase

- (i) Fresh water requirement from Irrigation Department through Mula River Water Supply shall not exceed 2520 KLD.
- (ii) No sewage, treated/untreated discharge in nearby river and water bodies.

- (iii) A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. Preference should be given to planting native species. Where the trees need to be cut, compensatory plantation in the ratio of 1:3 (i.e. planting of 3 trees for every 1 tree that is cut) shall be done and maintained. As proposed 38400 sqm area shall be provided for green belt development.
- (iv) The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.
- (v) For indoor air quality the ventilation provisions as per National Building Code of India.
- (vi) The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.
- (vii) The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry before the project is commissioned for operation. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.
- (viii) No sewage or untreated effluent water would be discharged through storm water drains.
- (ix) Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.
- (x) The provisions of the Solid Waste Management Rules, 2016, e-Waste (Management) Rules, 2016, the Construction and Demolition Waste Management Rules, 2016 and the Plastics Waste Management Rules, 2016 shall be followed.
- (xi) Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level/ local building bye-laws requirement, whichever is higher.
- (xii) Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.
- (xiii) Energy conservation measures like installation of CFLs/ LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning. Used CFLs, TFL and LED shall be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination.

- (xiv) An environmental management plan (EMP) shall be prepared and implemented to ensure compliance with the environmental conditions specified above. A dedicated Environment Monitoring Cell with defined functions and responsibility shall be put in place to implement the EMP. The environmental cell shall ensure that the environment infrastructure like Sewage Treatment Plant, Landscaping, Rain Water Harvesting, Energy efficiency and conservation, water efficiency and conservation, solid waste management, renewable energy etc. are kept operational and meet the required standards. The environmental cell shall also keep the record of environment monitoring and those related to the environment infrastructure.
- (xv) The company shall draw up and implement a corporate social Responsibility plan as per the Company's Act of 2013.

PART B - GENERAL CONDITIONS

- (i) A copy of the environmental clearance letter shall also be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industries centre and Collector's Office/ Tehsildar's office for 30 days.
- (ii) The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to this Ministry and its concerned Regional Office.
- (iii) Officials from the Regional Office of MoEF&CC, Nagpur who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and documents/data by the project proponents during their inspection. A complete set of all the documents submitted to MoEF&CC shall be forwarded to the APCCF, Regional Office of MoEF&CC, Nagpur.
- (iv) In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Ministry.
- (v) The Ministry reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
- (vi) All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, the Forest Conservation Act, 1980 and the Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.
- (vii) These stipulations would be enforced among others under the provisions of the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and the EIA Notification, 2006.
- (viii) The project proponent shall advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen on the website of the Ministry of Environment, Forest and Climate Change at <http://www.envfor.nic.in>. The advertisement shall be

made within Seven days from the date of receipt of the Clearance letter and a copy of the same shall be forwarded to the Regional Office of this Ministry at Nagpur.

- (ix) Any appeal against this clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
- (x) A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban Local Body 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&CC, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral 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 environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.
- (xiii) This issues with the approval of the Competent Authority.



(Kushal Vashist)
Director

Copy to:

- 1) The Principal Secretary, Environment Department, Government of Maharashtra, 15th Floor, New Administrative Building, Mantralaya, Mumbai - 400 032.
- 2) The APCCF (C), MoEF&CC, Regional Office (WCZ), Ground Floor, East Wing, New Secretariat Building, Civil Lines, Nagpur - 440001.
- 3) The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
- 4) The Chairman, Maharashtra Pollution Control Board, Kalpataru Point, 3rd and 4th floor, Opp. Cine Planet, Sion Circle, Mumbai - 400 022.
- 5) Monitoring Cell, MoEF&CC, Indira Paryavaran Bhavan, New Delhi.
- 6) Guard File/ Record File/ Notice Board.



(Kushal Vashist)
Director

Environmental Clearance Compliance Report

October 2021 to March 2022

Matrix Developers Pvt. Ltd.

Forest Trail

at Bhugaon, Pune

(Environmental Clearance Letter no. 21-261/2008-IA.III
dated 31st March, 2008, Extension dated 18th May, 2013
& Expansion dated on 23rd Oct. 2017)



Compliance Status of EC Conditions

(Environmental Clearance Letter no. 21-261/2008-IA.III dated 31st March, 2008, Extension dated 18th May, 2013 & Expansion dated on 23rd Oct. 2017)

No	Condition	Compliance	☑	P
	PART A- SPECIFIC CONDITIONS			
	1. Construction Phase			
(i)	The project proponent shall obtain all necessary clearance/permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building bye laws.	Being complied with the condition. All necessary approvals such as Building plan approvals and sanctions, NA Permission, Environment Clearance and MPCB Consent to Establish etc. are obtained. Consent for Establishment has been obtained from the State Pollution Control Board vide Consent No.BO/RO (P&P)/CC 256 dated 30.04.2008, Revalidation of consent to establish with expansion has been obtained vide Consent (No: Format1.0/CAC-CELL/UAN NO. 0000039048/CE/CAC-1909000989, Date-25/09/2019)		

No	Condition	Compliance	S	P
(ii)	Sewage shall be treated in the STP based on MBBR Technology with tertiary treatment i.e. Ultra-Filtration. The treated effluent from STP shall be recycled/re-used for flushing, horticulture & DG cooling. Excess treated water shall be discharged to municipal Sewer/ nearby Construction Works.	Being complied with the condition. Sewage treatment plants are in operations for completed buildings. The technology used for STP is MBBR. The treated water from STP is being used for Gardening and flushing purposes.		
(iii)	The local bye-laws provisions on rain water harvesting should be followed. If local bye-law provisions are not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban development Model Building Byelaws, 2016. As proposed, 53 nos. of rain water recharge pits shall be provided as per CGWB guidelines.	PP is complying with the condition. PP has provided recharge pits for completed buildings. As proposed 53 no's of rainwater harvesting recharge pit will be provided for rainwater harvesting within project area.		
(iv)	The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.	Being complied with the condition. Proper storm water drainage network has been provided for the completed buildings in the project area.		

No	Condition	Compliance	☑	P
(v)	<p>Construction site shall be adequately barricaded before the construction begins. Dust, smoke, and other air pollution preventions measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3-meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murum and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site. Sand, murum, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution. Wet jet shall be provided for grinding and stone cutting. Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.</p>	<p>Being complied with the condition. GI sheet barricading provided for construction sites.</p>		
(vi)	<p>All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the construction and demolition waste Rules, 2016. All carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.</p>	<p>Being complied with the condition. Designated area has been provided for construction debris within project site.</p>		
(vii)	<p>Provisions 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, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.</p>	<p>PP has provided Labour camp with all necessary hygienic and sanitary measures. The labour camp will be dismantled after the completion of construction work.</p>		✓
(viii)	<p>At least 20% of the open spaces as required by the local building bye-laws shall be pervious. Use of grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as previous surface.</p>	<p>PP is complying with the condition.</p>		✓

No	Condition	Compliance	☑	P
(ix)	Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the states which have notified their own ECBC, shall comply with the state ECBC. Outdoor and common area lighting shall be LED. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelopes, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, Window, and roof u-values shall be as per ECBC specifications.	PP is complying with the condition.		
(x)	Use of water savings devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc.) for water conservations shall be incorporated in the building plan.	PP is complying with the condition.		
(xi)	Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc and other for supply of recycled water for flushing, landscape irrigation, car washing, thermal cooling, conditioning etc. shall be done.	PP is complying with the condition for proposed buildings. PP has provided dual plumbing for fresh water and supply of recycled water for completed buildings.		
(xii)	Separation of grey and black water should be done by the use of dual plumbing system. In case of single stack system separate recirculation lines for flushing by giving dual plumbing system be done.	PP is complying with the condition.		
(xiii)	Solar based electric power shall be provided to each unit for at least two bulbs/light and one fan. As proposed, central lighting and street lighting shall also be based on solar power.	PP will comply with the condition. The said condition is applicable for proposed building.		
(xiv)	A First Aid room shall be provided in the project both during construction and operations of the project.	First Aid facility has been provided during construction and operations of the project.		
(xv)	Top soil should be stripped to a depth of 20cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.	Being complied with the condition. Topsoil generated during excavation work is being used for landscaping purpose.		

No	Condition	Compliance	☑	P
(xvi)	Disposal of muck during construction phase shall 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.	PP is complying with the condition.		
(xvii)	Diesel power generating sets used during construction phase shall be low Sulphur diesel type and shall conform to environmental (Protection) Prescribed for air and noise emission standards.	Being complied with the condition. DG sets are of low Sulphur type and with acoustic enclosure.		
(xviii)	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred	PP is complying with the condition. PP is using various water conservation such as use of RMC, slab ponding, use of jute cloth for curing etc.		
(xix)	As proposed, no ground water shall be used during construction/ operation phase of the project.	Being complied with condition.		
(xx)	Approval of the CGWA require before any dewatering for basements.	Ground water is not extracted at site. Therefore, no need for approval of the CGWA.		
(xxi)	The approval of the competent authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of firefighting equipment etc. as per National Building code including protection measures from lightning etc.	PP is complying with the condition.		
(xxii)	Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board	There is no hazardous waste generation from project site.		
(xxiii)	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 be operated only during non-peak hours.	PP is complying with the condition. All construction vehicles are checked for PUC and maintenance is carried out on regular interval.		

No	Condition	Compliance	☑	P
(xiv)	Ambient noise levels shall conform to residential standards both during day and night as per noise pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/SPCB.	PP is complying with the conditions. Ambient noise levels during day and night are being monitored through MoEF and NABL accredited Lab. Monitoring reports are attached herewith.	✓	
(xxv)	Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly ash bricks, hollow bricks, AACs, Fly Ash lime Gypsum blocks, Compressed earth blocks, and other environment friendly materials. Fly ash should be used as building material in the construction as per the provision of fly ash Notification of September, 1999 and amended as on 27th August, 2003 and 25th January, 2016. Ready mixed concrete must be used in building construction	Being complied with condition. PP is using Fly Ash, fly ash bricks and AAC Blocks in construction work.		
(xxvi)	A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria. Hierarchy of roads with proper segregation of vehicular and pedestrian traffic. Traffic calming measures Proper design of entry and exit points. Parking norms as per local regulation.	Being complied with condition. All roads in the project are designed with due consideration for environment & users safety. Traffic calming measures such as speed brakers, signages etc are installed at project site. Parking facility provided within project site as per DCR requirement.		

No	Condition	Compliance	☑	P
(xxvii)	Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage shall be composted in organic waste converter 350m.sq. space shall be provided for solid waste management within the premises which will include area for segregation, composting. The inert waste from group housing project will be sent to dumping site.	Solid waste is collected and segregated into dry and wet waste. Wet waste is being treated into organic waste converter and recyclable waste is being sold to recycler.		
(xxviii)	Project Proponent should comply with conditions stipulated at Appendix-XIV of the amended EIA Notification vide S.O. 3999(E) dated 09.12.2016.	Noted. PP is complying with the condition.		
	II. Operation phase			
i)	Fresh water requirement from Irrigation Department through Mula River water supply shall not exceed 2520 KLD.	PP is complying with the condition.		
ii)	No sewage, treated/untreated discharge in nearby river and water bodies	PP is complying with the condition.		
iii)	A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. Preference should be given to planting native species. Where the trees need to be cut, compensatory plantation in the ratio of 1:3 (i.e planting of 3 trees for every 1 tree that is cut) shall be done and maintained. As proposed 38400 sqm area shall be provided for green belt development.	PP is complying with the condition. Tree plantation at site has been conducted at site.		✓
iv)	The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.	Being complied with condition. DG Set stack emission monitoring reports are attached herewith.	✓	
v)	For indoor air quality the ventilation provisions as per National Building code of India.	PP is complying with the condition.		
vi)	The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional office, MoEF & CC along with six monthly monitoring reports.	PP will comply with the condition.		

No	Condition	Compliance	☑	P
vii)	The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry before the project is commissioned for operation. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.	Being complied with. Treated wastewater from STP is being monitoring through MoEF and NABL accredited Lab. Monitoring reports are attached herewith.	✓	
viii)	No sewage or untreated effluent water would be discharged through storm water drains.	PP is complying with the condition. Separate sewer and storm water lines are provided within project site.		
ix)	Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the ministry of urban development, central public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewage and Sewage Treatment Systems,2013	PP is complying with the condition.		
x)	The provisions of the solid waste management rules, 2016, E-waste (Management) Rules,2016 and the plastics waste management rules, 2016 shall be followed.	The solid waste generated from the project site is segregated into dry and wet. wet waste is being treated in OWC Unit. The manure generated is used for gardening purposes within project area. Recyclable waste is being handed over to recycler.		
xi)	Solar, Wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1%of the demand load or as per the state level/ local building bye-laws requirement, whichever is higher.	PP will comply with the condition. The said condition is applicable for proposed buildings.		

No	Condition	Compliance	☑	P
xii)	Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.	PP will comply with the condition. The said condition is applicable for proposed buildings.		
(xiii)	Energy conservation measures like installation of CFLs/LED for lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. Used CFLs and FLs should be properly collected and disposed of/send for recycling as per the prevailing rules/guidelines of the regulatory authority to avoid mercury contamination.	PP is complying with the condition. PP is using CFL/LED lights for common area.		
(xiv)	An environmental management plan (EMP) shall be prepared and implemented to ensure compliance with the environmental conditions specified above. A dedicated Environment Monitoring Cell with defined functions and responsibility shall be put in place to implement the EMP. The environmental cell shall ensure that the environment infrastructure like Sewage Treatment Plant, Landscaping, Rain water harvesting, Energy efficiency and conservation, water efficiency and conservation, solid waste management, renewable energy etc. are kept operational and meet the required standards. The environmental cell shall also keep and record of environment monitoring and those related to the environment infrastructure.	Being complied with. EHS team at project site is responsible for implementation of Environment Management Plan.		
(xv)	The company shall draw up and implement a corporate social Responsibility plan as per the Company's Act of 2013	Noted.		
	Part – B General Conditions			
i)	A copy of the environmental clearance letter shall also be displayed on the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industries centre and Collector's office/Tehsildar's office for 30 days.	Noted.		

No	Condition	Compliance	☑	P
ii)	The funds earmarked for environmental protection measures shall be kept in separate account and shall be reported to this Ministry and its concerned Regional Office.	PP agrees to comply with the condition.		
iii)	All the labourers to be engaged for construction works should be screened for health and adequately treated before the issue of work permits.	PP is complying with the condition.		
iv)	Officials from the regional office of MoEF, Nagpur who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and documents/data by the project proponents during their inspection. A complete set of all the documents submitted to MoEF & CC shall be forwarded to the APCCF, Regional office of MoEF & CC, Nagpur.	PP agrees to comply with the condition.		
v)	In case of any change(s) in the scope of the project, the project would require a fresh appraisal by this ministry.	PP agrees to comply with the condition.		
vi)	The Ministry reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.	PP agrees to comply with the condition.		
vii)	All other statutory clearances such as the approvals for storage of diesel from chief controller of explosives, fire department, Civil Aviation Department, the Forest Conservation Act, 1980 and the wildlife (Protection) act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.	Noted by PP.		
viii)	These stipulations would be enforced among others under the provisions of the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and the EIA Notification, 2006.	Noted by PP		

No	Condition	Compliance	☑	P
ix)	The project proponent shall advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen on the website of the Ministry of Environment, Forest and Climate Change at http://www.envfor.nic.in . The advertisement shall be made within Seven days from the date of receipt of the Clearance letter and a copy of the same shall be forwarded to the Regional Office of this Ministry at Nagpur.	Being complied with the condition. Public notice has been given in two newspapers informing that project has received Environment Clearance. Copy of public notice is attached herewith.	✓	
x)	Any appeal against this clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted by PP.		
xi)	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parisad/Municipal Corporation, Urban Local Body 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.	PP is complying with the condition.		
xii)	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&CC, 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 sectoral 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	Being complied with the condition.		

No	Condition	Compliance	☑	P
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 MoEF & CC by email.	PP is complying with the condition.		
xiv)	This issues with the approval of the Competent Authority.	Noted by PP.		

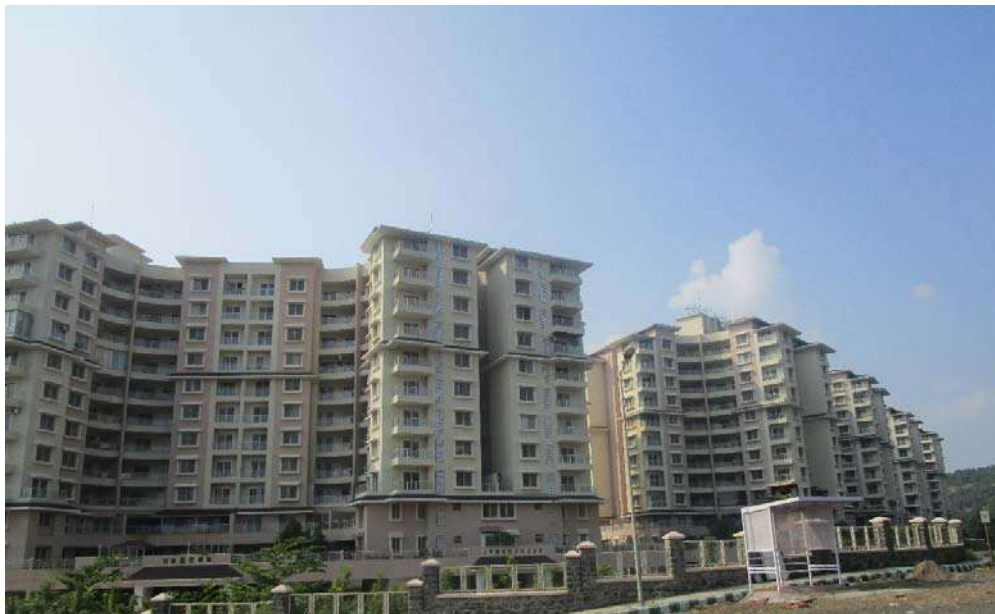
Annexure II

SITE PHOTOGRAPHS

Entrance Gate



Completed Building



Building under construction Site



Building under construction Site



Building Under Construction



D.G. Set



Labour Camp



Sanitary Facility



First-Aid Box



Drinking Water Facility



OWC



STP





Mahabal Enviro Engineers Pvt. Ltd.

Engineer, Consultant, Environmental Monitoring Laboratory & Contractor

Plot Nos. 13,14,17,18, Grampanchayat Bokhard, 8 km from Nagpur City,
Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist. Nagpur-441111

Phone : 91-712-2612162, 2612212, WP:9326279040 Email: mahabal.nagpur@gmail.com

Test Report

Report No.: ME-NG18308-211228-SA-FT-PUNE		Date: 28.12.2021	
Name and address of Customer	Matrix Developers Pvt. Ltd. "Forest Trails", CTS. Nos.16/1,19/1,21/1,21/1/2,35/1, 35/2,36(P),38/1,40/1,44/5 to 113/1/7, Village Bhugaon, Tal. Mulshi, Dist. Pune.	Order Reference Telephonic Discussion	
Sample Description/Type	Ambient Air Quality Monitoring	Sample Collected by	Laboratory
Sampling Location	Near 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
Date of Sampling	19.12.2021	Date of Receipt of Sample	21.12.2021
Sampling Procedure	As per Method reference		
Date of Start of Analysis	22.12.2021	Date of Completion of Analysis	25.12.2021

Parameter	Unit	Result	#NAAQM Standard	Method Reference
Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
Location	Near Project Site		Duration of Survey	8 hours
Sulphur Dioxide (SO ₂)	µg/m ³	8.27	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
Nitrogen Dioxide (NO ₂)	µg/m ³	13.3	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
Particulate Matter (size less than 10µm) or PM ₁₀	µg/m ³	38	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
Particulate Matter (size less than 2.5µm) or PM _{2.5}	µg/m ³	14	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30
Remarks: TWA - Time Weighted Average, #- NAAQS specified as: 24 h. TWA in case of SO ₂ , NO ₂ , PM ₁₀ , PM _{2.5}				

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Harish Mendhi
TECHNICAL MANAGER



Note:

- The result listed refers only to the tested sample(s) and applicable parameter(s).
- This report is not to be reproduced except in full, without written approval of the laboratory.



Page 1 of 1

QF/SAL/03/Issue No 03 Dt 05.12.2019. And 01 Dt 01.03.2020



Plot No. F-7, Road No. 21, MIDC Wagle Estate, Thane West - 400604, Maharashtra
(Turn Opp Toyota Show Room 600 m from Hotel Rukhmini Palace. Next to Ashida Electrical. Near J B Sawant Bus Stop)
Phone: 2582 0658/3139/1663/3154 Fax: +91-22-25823543 thane@mahabal.com



Mahabal Enviro Engineers Pvt. Ltd.

Engineer, Consultant, Environmental Monitoring Laboratory & Contractor
Plot Nos. 13,14,17,18, Grampanchayat Bokhara, 8 km from Nagpur City,
Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist. Nagpur-441111
Phone : 91-712-2612162, 2612212, WP:9326279040 Email: mahabal.nagpur@gmail.com

Test Report

Report No.: ME-NG18309-211228-SA-FT-PUNE		Date: 28.12.2021
Name and Address of Customer	Matrix Developers Pvt. Ltd. "Forest Trails", CTS. Nos.16/1,19/1,21/1,21/1/2,35/1, 35/2,36(P),38/1,40/1,44/5 to 113/1/7, Village Bhugaon, Tal. Mulshi, Dist. Pune.	Order Reference:
		Telephonic Discussion
Date of Sampling	19.12.2021	
Sampling Procedure	IS 9876:1981	

Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Noise)

Sr. No.	Location	Time in h	Sound Level dB(A) Fast Response	Sound Level dB(A) Slow Response
1	A. Project Site			
	Day	09:45	54.5	53.1
	Night	22:00	42.7	42.0

THE NOISE POLLUTION (REGULATION AND CONTROL) RULES, 2000

Area Code	Category of Area /Zone	Limit in dB(A) weighted scale	
		Day Time (6:00a.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

ULR-TC748721000017227F

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Harish Mendhi

Harish Mendhi

TECHNICAL MANAGER



Note:

- The result listed refers only to the tested sample(s) and applicable parameter(s).
- This report is not to be reproduced except in full, without written approval of the laboratory.



Page 1 of 1

QF/SAL/05/Issue No.03.Dt.05.12.2019, Amd.00, Dt.00



Plot No. F-7, Road No. 21, MIDC Wagle Estate, Thane West - 400604, Maharashtra
(Turn Opp Toyota Show Room 600 m from Hotel Rukhmini Palace. Next to Ashida Electrical. Near J B Sawant Bus Stop)
Phone: 2582 0658/3139/1663/3154 Fax: +91-22-25823543 thane@mahabal.com



Mahabal Enviro Engineers Pvt. Ltd.

Engineer, Consultant, Environmental Monitoring Laboratory & Contractor
 Plot Nos. 13, 14, 17, 18, Grampanchayat Bokhara, 8 km from Nagpur City,
 Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist. Nagpur-441111
Phone : 91-712-2612162, 2612212, WP:9326279040 **Email:** mahabal.nagpur@gmail.com

Test Report

Report No.: ME-NG18310-211228-SA-FT-PUNE		Date: 28.12.2021	
Name and Address of Customer	Matrix Developers Pvt. Ltd. "Forest Trails", CTS. Nos.16/1,19/1,21/1,21/1/2,35/1, 35/2,36(P),38/1,40/1,44/5 to 113/1/7, Village Bhugaon, Tal. Mulshi, Dist. Pune.		Order Reference
			Telephonic Discussion
Sample Description/Type	Stack Emission Monitoring	Sample Collected by	Laboratory
Sampling Location	D.G. Set 82.5 KVA (LT Room 2)	Sample Quantity/Packing	Thimble:1 X 1No. SO ₂ :30 mL X 1 No. PVC Bottle NO _x :25 mL X 1 No. PVC Bottle
Date of Sampling	19.12.2021	Date of Receipt of Sample	21.12.2021
Sampling Procedure	As per Method reference		
Date of Start of Analysis	22.12.2021	Date of Completion of Analysis	25.12.2021

Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)

Stack Details

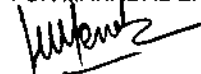
Stack Identity	D.G. Set [82.5 kVA LT Room 2]
Stack attached to	D.G. Set
Material of construction	M.S.
Stack height above ground level (meter)	3
Stack diameter at sampling point (meter)	0.10
Stack shape at top	Round
Type of fuel	Diesel

Parameter	Unit	Result	Method Reference
Flue gas Temperature	°C	134	IS 11255 (Part 3):2008; RA 2018
Flue gas Velocity	m/s	6.46	IS 11255 (Part 3):2008; RA 2018
Total gas quantity	Nm ³ /h	131	IS 11255 (Part 3):2008; RA 2018
Particulate Matter (PM)	mg/Nm ³	32	IS 11255 (Part 1):1985; RA 2019
Sulphur Dioxide (SO ₂)	mg/Nm ³	21	IS 11255 (Part 2):1985; RA 2019
Sulphur Dioxide (SO ₂)	kg/day	0.066	IS 11255 (Part 2):1985; RA 2019
Oxides of Nitrogen (NO _x)	mg/Nm ³	112	IS 11255 (Part 7): 2005; RA 2017

Remark:

END

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.



Harish Mendhi
TECHNICAL MANAGER



TC-7487

Note:

- The result listed refers only to the tested sample(s) and applicable parameter(s).
- This report is not to be reproduced except in full, without written approval of the laboratory.





Mahabal Enviro Engineers Pvt. Ltd.

Engineer, Consultant, Environmental Monitoring Laboratory & Contractor

Plot Nos. 13,14,17,18, Grampanchayat Bokhara, 8 km from Nagpur City,
Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist.Nagpur-441111
Phone : 91-712-2612162, 2612212, WP:9326279040 Email: mahabal.nagpur@gmail.com

Test Report

Report No.: ME-NG19032-220107-SA-FT-PUNE		Date: 07.01.2022	
Name and Address of Customer	Matrix Developers Pvt. Ltd. "Forest Trails", CTS. Nos.16/1,19/1,21/1,21/1/2,35/1, 35/2,36(P),38/1,40/1,44/5 to 113/1/7, Village Bhugaon, Tal. Mulshi, Dist. Pune.		Order Reference
			Telephonic Discussion
Sample Description/Type	Noise Level Monitoring	Sample Collected by	NA
Date of Sampling	30.12.2021		
Sampling Procedure	IS 9876:1981		

Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Source Noise Excluding Vibrations)

Location	Unit	Time In h	Result			Limit as per EPA Rule 1986
			Inside	Outside	Insertion loss	
D G Set (250KVA) (Lavale Intermediate Tank)	dB(A)	10:00	92.3	67.1	25.2	1) For rated capacity more than 1000 KVA, insertion loss of Min. 25dB(A) or meeting the ambient noise standards whichever is on the higher side at different points at 0.5 m from the acoustic enclosure and averaged. 2) For rated capacity up to 1000 KVA, manufactured on or after the 1 st January 2005, the maximum permissible sound pressure level shall be 75 dB(A) at 1 metre from the enclosure surface.
D G Set (250 KVA) Athshri Sector	dB(A)	10:20	87.5	62.2	25.3	
D. G. Set (160 KVA) (Pebbles)	dB(A)	10:30	90.8	65.5	25.3	
D G Set (320 KVA) (Highland I Cluster)	dB(A)	10:40	99.1	23.9	25.2	
D G Set (35KVA)	dB(A)	10:50	88.6	63.4	25.2	

Remark:

END

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Harish Mendhi

Harish Mendhi
TECHNICAL MANAGER



Note:

- The result listed refers only to the tested sample(s) and applicable parameter(s).
- This report is not to be reproduced except in full, without written approval of the laboratory.



TC-7487



Plot No. F-7, Road No. 21, MIDC Wagle Estate, Thane West - 400604, Maharashtra
(Turn Opp Toyota Show Room 600 m from Hotel Rukhmini Palace. Next to Ashida Electrical. Near J B Sawant Bus Stop)
Phone: 2582 0658/3139/1663/3154 Fax:+91-22-25823543 thane@mahabal.com

Page 1 of 1
QF/SALE/05/Issue No.03, Dt.05.12.2019, Amd.00, Dt.00

ULR- TC748721000017895F



Mahabal Enviro Engineers Pvt. Ltd.

Engineer, Consultant, Environmental Monitoring Laboratory & Contractor

Plot Nos. 13,14,17,18, Grampanchayat Bokhara, 8 km from Nagpur City,
Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist. Nagpur-441111
Phone : 91-712-2612162, 2612212, WP:9326279040 Email: mahabal.nagpur@gmail.com

Test Report

Report No.: ME-NG18903-220108-SA- FT-PUNE		Date: 08.01.2022	
Name and Address of Customer	Matrix Developers Pvt. Ltd. "Forest Trails", CTS. Nos.16/1,19/1,21/1,21/1/2,35/1, 35/2,36(P),38/1,40/1,44/5 to 113/1/7, Village Bhugaon, Tal. Mulshi, Dist. Pune.		Order Reference
			Telephonic Discussion
Sample Description/Type	Soil	Sample Collected by	Laboratory
Sampling Location	Project Site	Sample Quantity/Packing	1 kg X 1No. Polyethene bag
Date of Sampling	29.12.2021	Date of Receipt of Sample	30.12.2021
Sampling Procedure	Manual on Soil, Plant & Water Analysis		
Date of Start of Analysis	03.01.2022	Date of Completion of Analysis	08.01.2022

Sr. No.	Parameter	Unit	Result	Method Reference
Discipline: Chemical Testing; Product Group: Pollution & Environment (Soil)				
1	pH (1:5 Suspension)	-	7.9	FAO 1976, Sec.III,1, Page No. 65
2	Moisture Content	%	6.20	IS 2720 (Part II): 1973, RA 2020, Ed. 3.1
3	Organic Carbon	%	0.334	Manual of Soil Testing, Department of Agriculture & Cooperation, Ministry of Agriculture, Govt. India, Sec.4-17, Page No 83.
4	Available Nitrogen (as N)	mg/kg	61.6	Manual Of Soil Testing, Department of Agriculture, & Cooperation, Ministry of Agriculture, Govt. India, Sec 4-17, Page No. 89
5	Available Phosphate (as P)	mg/kg	13.2	FAO 1976, Sec. III, 12-1, Page No. 157
6	Total Cadmium (as Cd)	mg/kg	<2	USEPA/SW 846 Method 3050B, Rev.2: Dec.1996 and 7000B, Rev.2, Feb 2007
7	Total Chromium (as Cr)	mg/kg	38.3	USEPA/SW 846 Method 3050B, Rev.2: Dec.1996 and 7000B, Rev.2, Feb 2007
8	Total Copper (as Cu)	mg/kg	111	USEPA/SW 846 Method 3050B, Rev.2: Dec.1996 and 7000B, Rev.2, Feb 2007
9	Total Lead (as Pb)	mg/kg	19.8	USEPA/SW 846 Method 3050B, Rev.2: Dec.1996 and 7000B, Rev.2, Feb 2007
10	Total Zinc (as Zn)	mg/kg	71.1	USEPA/SW 846 Method 3050B, Rev.2: Dec.1996 and 7000B, Rev.2, Feb 2007

Remarks: All results are on as received basis

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Harish Mendhi

Harish Mendhi

TECHNICAL MANAGER



Note:

- The result listed refers only to the tested sample(s) and applicable parameter(s).
- This report is not to be reproduced except in full, without written approval of the laboratory.

Page 1 of 1

QF/SALE/02/Issue No 03 Dt 05.12.2019, Amd 00 Dt 00



Plot No. F-7, Road No. 21, MIDC Wagle Estate, Thane West - 400604, Maharashtra

(Turn Opp Toyota Show Room 600 m from Hotel Rukhmini Palace. Next to Ashida Electrical. Near J B Sawant Bus Stop)

Phone: 2582 0658/3139/1663/3154 Fax:+91-22-25823543 thane@mahabal.com



Mahabal Enviro Engineers Pvt. Ltd.

Engineer, Consultant, Environmental Monitoring Laboratory & Contractor

Plot Nos. 13,14,17,18, Grampanchayat Bokhara, 8 km from Nagpur City,
Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist. Nagpur-441111

Phone : 91-712-2612162, 2612212, WP:9326279040 Email: mahabal.nagpur@gmail.com

Test Report

Report No.: ME-NG18904-220122-SA-FT-PUNE		Date: 07.01.2022	
Name and Address of Customer	Matrix Developers Pvt. Ltd. "Forest Trails", CTS. Nos.16/1,19/1,21/1,21/1/2,35/1, 35/2,36(P),38/1,40/1,44/5 to 113/1/7, Village Bhugaon, Tal. Mulshi, Dist. Pune.		Order Reference
			Telephonic Discussion
Sample Description/Type	Drinking Water	Sample Collected by	Laboratory
Sampling Location	Project Site	Sample Quantity/Packing	2L X 1 No. PVC Can 500mL X 1 No. PVC Can 250 mL X 1 No. Sterilized Glass Bottle
Date of Sampling	29.12.2021	Date of Receipt of Sample	30.12.2021
Sampling Procedure	IS:3025(Part I):1987 RA 2019; IS 1622:1981 RA 2019 Ed 2.4 (2003); APHA 23 rd Ed. 2017, 1060-B, 1-40; 9060 A, 9-36		
Date of Start of Analysis	30.12.2021	Date of Completion of Analysis	07.01.2022

ULR- TC748721000017773F

Sr. No.	Parameter	Unit	Result	Method Reference
Discipline: Chemical Testing; Product Group: Water (Drinking Water)				
1	Colour	Hazen	<1	APHA 23 rd Ed. 2017, 2120-B, 2-6
2	Odour	-	Agreeable	IS 3025 (Part 5):1984, Reaffirmed 2018
3	Taste	-	Agreeable	IS 3025 (Part 7 & 8):1984, Reaffirmed 2017
4	Turbidity	NTU	0.3	APHA 23 rd Ed. 2017, 2130-B, 2-13
5	pH	-	8.0	APHA 23 rd Ed. 2017, 4500-H ⁺ -B, 4-95
6	Total Dissolved Solids	mg/L	265	IS 3025 (Part 16):1984 Reaffirmed 2017, Ed.2.1(1999-12)
7	Total Hardness (as CaCO ₃)	mg/L	200	APHA 23 rd Ed. 2017, 2340-C, 2-48
8	Calcium (as Ca)	mg/L	49.7	APHA 23 rd Ed. 2017, 3500-Ca-B, 3-69
9	Magnesium (as Mg)	mg/L	18.5	APHA 23 rd Ed. 2017, 3500-Mg- B, 3-86
10	Alkalinity Total (as CaCO ₃)	mg/L	192	IS 3025 (Part 23):1986 RA 2019 Amds 1
11	Chloride (as Cl)	mg/L	21.0	APHA 23 rd Ed. 2017, 4500-Cl-B, 4-75
12	Sulphate (as SO ₄)	mg/L	10.2	APHA 23 rd Ed. 2017, 4500- SO ₄ -E, 4-199
13	Nitrate (as NO ₃)	mg/L	1.3	APHA 23 rd Ed. 2017, 4500-NO ₃ , E 4-131
14	Fluoride (as F)	mg/L	0.34	APHA 23 rd Ed. 2017, 4500-F, D, 4-90





Mahabal Enviro Engineers Pvt. Ltd.

Engineer, Consultant, Environmental Monitoring Laboratory & Contractor

Continuation Sheet

Report No.18904 Cont...

Sr. No.	Parameter	Unit	Result	Method Reference
15	Cyanide (as CN)	mg/L	N.D.	APHA 23 rd Ed. 2017, 4500-CN, C & E, 4-44 & 4-46
16	Anionic detergents as MBAS	mg/L	N.D.	APHA 23 rd Ed. 2017, 5540-C, 5-55
17	Phenolic compounds (as C ₆ H ₅ OH)	mg/L	N.D.	APHA 23 rd Ed. 2017, 5530- B & C, 5-49, 5-50
Residues in water (Trace metal Element)				
18	Chromium Hexa (as Cr ⁶⁺)	mg/L	N.D.	APHA 23 rd Ed. 2017, 3500- Cr-B, 3-71
19	Mercury (as Hg)	mg/L	N.D.	APHA 23 rd Ed. 2017, 3112-B, 3-25
20	Iron (as Fe)	mg/L	0.081	IS 3025 (Part 2) 2019
21	Manganese (as Mn)	mg/L	0.013	IS 3025 (Part 2) 2019
22	Cadmium (as Cd)	mg/L	N.D.	IS 3025 (Part 2) 2019
23	Copper (as Cu)	mg/L	N.D.	IS 3025 (Part 2) 2019
24	Lead (as Pb)	mg/L	N.D.	IS 3025 (Part 2) 2019
25	Zinc (as Zn)	mg/L	0.041	IS 3025 (Part 2) 2019
26	Arsenic (as As)	mg/L	N.D.	IS 3025 (Part 2) 2019
Discipline: Biological Testing; Product Group: Water (Drinking Water)				
27	Total Coliforms	P-A/ 100 mL	Absent	IS 15185: 2016
28	E-Coli	P-A/ 100 mL	Absent	IS 15185: 2016
Remark: N.D.: Not Detected				

ULR- TC748721000017773F

END

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Harish Mendhi
TECHNICAL MANAGER
(Chemical Testing)



Shital N. Lakhorkar
GROUP INCHARGE
(Biological Testing)



Note:

1. The result listed refers only to the tested sample(s) and applicable parameter(s).
2. This report is not to be reproduced except in full, without written approval of the laboratory.



Page 2 of 2

QF/SALE/02/Issue No 03 Dt 05.12.2019,Amd 00 Dt 00



Plot No. F-7, Road No. 21, MIDC Wagle Estate, Thane West - 400604, Maharashtra
(Turn Opp Toyota Show Room 600 m from Hotel Rukhmini Palace. Next to Ashida Electrical. Near J B Sawant Bus Stop)
Phone: 2582 0658/3139/1663/3154 Fax:+91-22-25823543 thane@mahabal.com



Mahabal Enviro Engineers Pvt. Ltd.

Engineer, Consultant, Environmental Monitoring Laboratory & Contractor

Plot Nos. 13,14,17,18, Grampanchayat Bokhara, 8 km from Nagpur City,
Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist. Nagpur-441111

Phone : 91-712-2612162, 2612212, WP:9326279040 Email: mahabal.nagpur@gmail.com

Test Report

Report No.: ME-NG18906-220107-SA-FT-PUNE		Date: 07.01.2022	
Name and Address of Customer	MATRIX DEVELOPERS PVT. LTD. "FOREST TRAILS", CTS. Nos.16/1,19/1,21/1,21/1/2,35/1, 35/2,36(P),38/1,40/1,44/5 to 113/1/7, Village Bhugaon, Tal. Mulshi, Dist. Pune.		Order Reference
			As per verbal discussion
Sample Description/Type	Treated Sewage Effluent	Sample Collected by	Laboratory
Sampling Location	STP Outlet -160 KLD Phase - I	Sample Quantity/Packing	2 L X 1 No. PVC Can 1 L X 1 No. Glass Bottle 100 mL X 1 No. PVC Can
Date of Sampling	29.12.2021	Date of Receipt of Sample	30.12.2021
Sampling Procedure	IS:3025(Part I):1987 RA 2019; APHA 23 rd Ed. 2017, 1060-B, 1-40		
Date of Start of Analysis	30.12.2021	Date of Completion of Analysis	07.01.2022

Sr. No.	Parameter	Unit	Result	Method Reference
Discipline: Chemical Testing; Product Group: Pollution & Environment(Waste Water)				
1.	pH	-	8.1	APHA 23 rd Ed. 2017, 4500-H ⁺ -B, 4-95
2.	Total Suspended Solids	mg/L	7	APHA 23 rd Ed. 2017, 2540-D, 2-70
3.	Total Residual Free Chlorine	mg/L	<0.05	APHA 23 rd Ed. 2017, 4500-Cl-G, 4-72
4.	Biochemical Oxygen Demand (3 days 27°C)	mg/L	4.3	IS 3025 (Part 44): 1993, Reaffirmed 2019
5.	Chemical Oxygen Demand	mg/L	14	APHA 23 rd Ed. 2017, 5220-B, 5-18
6.	Oil and Grease	mg/L	N.D.	IS 3025 (Part 39): 1991, Reaffirmed 2021, Amds.1
Remarks: N.D. Not Detected				

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Harish Mendhi

TECHNICAL MANAGER



Note:

- The result listed refers only to the tested sample(s) and applicable parameter(s).
- This report is not to be reproduced except in full, without written approval of the laboratory.



TC-7487



Page 1 of 1

QF/SALE/05/Issue No.03, Dt.05.12.2019, Amd.00, Dt.00

Plot No. F-7, Road No. 21, MIDC Wagle Estate, Thane West - 400604, Maharashtra
(Turn Opp Toyota Show Room 600 m from Hotel Rukhmini Palace. Next to Ashida Electrical. Near J B Sawant Bus Stop)
Phone: 2582 0658/3139/1663/3154 Fax:+91-22-25823543 thane@mahabal.com

ULR-TC748721000017775F



Mahabal Enviro Engineers Pvt. Ltd.

Engineer, Consultant, Environmental Monitoring Laboratory & Contractor

Plot Nos. 13,14,17,18, Grampanchayat Bokhara, 8 km from Nagpur City,
Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist. Nagpur-441111

Phone : 91-712-2612162, 2612212, WP:9326279040 Email: mahabal.nagpur@gmail.com

Test Report

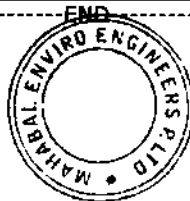
Report No.: ME-NG18907-220107-SA-FT-PUNE		Date: 07.01.2022	
Name and Address of Customer	MATRIX DEVELOPERS PVT. LTD. "FOREST TRAILS", CTS. Nos.16/1,19/1,21/1,21/1/2,35/1, 35/2,36(P),38/1,40/1,44/5 to 113/1/7, Village Bhugaon, Tal. Mulshi, Dist. Pune.		Order Reference
			As per verbal discussion
Sample Description/Type	Treated Sewage Effluent	Sample Collected by	Laboratory
Sampling Location	STP Outlet -47 KLD Phase - II	Sample Quantity/Packing	2 L X 1 No. PVC Can 1 L X 1 No. Glass Bottle 100 mL X 1 No. PVC Can
Date of Sampling	29.12.2021	Date of Receipt of Sample	30.12.2021
Sampling Procedure	IS:3025(Part I):1987 RA 2019; APHA 23 rd Ed. 2017, 1060-B, 1-40		
Date of Start of Analysis	30.12.2021	Date of Completion of Analysis	07.01.2022

Sr. No.	Parameter	Unit	Result	Method Reference
Discipline: Chemical Testing; Product Group: Pollution & Environment(Waste Water)				
1.	pH	-	7.3	APHA 23 rd Ed. 2017, 4500-H ⁺ -B, 4-95
2.	Total Suspended Solids	mg/L	6	APHA 23 rd Ed. 2017, 2540-D, 2-70
3.	Total Residual Free Chlorine	mg/L	<0.05	APHA 23 rd Ed. 2017, 4500-Cl-G, 4-72
4.	Biochemical Oxygen Demand (3 days 27°C)	mg/L	5.3	IS 3025 (Part 44): 1993, Reaffirmed 2019
5.	Chemical Oxygen Demand	mg/L	16	APHA 23 rd Ed. 2017, 5220-B, 5-18
6.	Oil and Grease	mg/L	N.D.	IS 3025 (Part 39): 1991, Reaffirmed 2021, Amds.1

Remarks: N.D. Not Detected

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Harish Mendhi
TECHNICAL MANAGER



Note:

- The result listed refers only to the tested sample(s) and applicable parameter(s).
- This report is not to be reproduced except in full, without written approval of the laboratory.



TC-7487



Plot No. F-7, Road No. 21, MIDC Wagle Estate, Thane West - 400604, Maharashtra
(Turn Opp Toyota Show Room 600 m from Hotel Rukhmini Palace. Next to Ashida Electrical. Near J B Sawant Bus Stop)
Phone: 2582 0658/3139/1663/3154 Fax: +91-22-25823543 thane@mahabal.com



Mahabal Enviro Engineers Pvt. Ltd.

Engineer, Consultant, Environmental Monitoring Laboratory & Contractor

Plot Nos. 13,14,17,18, Grampanchayat Bokhara, 8 km from Nagpur City,
Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist.Nagpur-441111
Phone : 91-712-2612162, 2612212, WP:9326279040 Email: mahabal.nagpur@gmail.com

Test Report

Report No.: ME-NG18908-220107-SA-FT-PUNE		Date: 07.01.2022	
Name and Address of Customer	MATRIX DEVELOPERS PVT. LTD. "FOREST TRAILS", CTS. Nos.16/1,19/1,21/1,21/1/2,35/1, 35/2,36(P),38/1,40/1,44/5 to 113/1/7, Village Bhugaon, Tal. Mulshi, Dist. Pune.		Order Reference
			As per verbal discussion
Sample Description/Type	Treated Sewage Effluent	Sample Collected by	Laboratory
Sampling Location	STP Outlet -160 KLD Athashri	Sample Quantity/Packing	2 L X 1 No. PVC Can 1 L X 1 No. Glass Bottle 100 mL X 1 No. PVC Can
Date of Sampling	29.12.2021	Date of Receipt of Sample	30.12.2021
Sampling Procedure	IS:3025(Part I):1987 RA 2019; APHA 23 rd Ed. 2017, 1060-B, 1-40		
Date of Start of Analysis	30.12.2021	Date of Completion of Analysis	07.01.2022

ULR-TC748721000017777F

Sr. No.	Parameter	Unit	Result	Method Reference
Discipline: Chemical Testing; Product Group: Pollution & Environment(Waste Water)				
1.	pH	-	7.2	APHA 23 rd Ed. 2017, 4500-H ⁺ -B, 4-95
2.	Total Suspended Solids	mg/L	6	APHA 23 rd Ed. 2017, 2540-D, 2-70
3.	Total Residual Free Chlorine	mg/L	<0.05	APHA 23 rd Ed. 2017, 4500-Cl-G, 4-72
4.	Biochemical Oxygen Demand (3 days 27°C)	mg/L	5.1	IS 3025 (Part 44): 1993, Reaffirmed 2019
5.	Chemical Oxygen Demand	mg/L	16	APHA 23 rd Ed. 2017, 5220-B, 5-18
6.	Oil and Grease	mg/L	N.D.	IS 3025 (Part 39): 1991, Reaffirmed 2021, Amds.1

Remarks: N.D. Not Detected

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Harish Mendhi

TECHNICAL MANAGER



Note:

- The result listed refers only to the tested sample(s) and applicable parameter(s).
- This report is not to be reproduced except in full, without written approval of the laboratory.



TC-7487



Plot No. F-7, Road No. 21, MIDC Wagle Estate, Thane West - 400604, Maharashtra
(Turn Opp Toyota Show Room 600 m from Hotel Rukhmini Palace. Next to Ashida Electrical. Near J B Sawant Bus Stop)
Phone: 2582 0658/3139/1663/3154 Fax:+91-22-25823543 thane@mahabal.com

Page 1 of 1
QF/SALE/05/Issue No.03, Dt.05.12.2019, Amd.00.Dt.00



Mahabal Enviro Engineers Pvt. Ltd.

Engineer, Consultant, Environmental Monitoring Laboratory & Contractor

Plot Nos. 13,14,17,18, Grampanchayat Bokhara, 8 km from Nagpur City,
Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist.Nagpur-441111
Phone : 91-712-2612162, 2612212, WP:9326279040 Email: mahabal.nagpur@gmail.com

Test Report

Report No.: ME-NG18909-220108-SA-FT-PUNE		Date: 08.01.2022	
Name and Address of Customer	MATRIX DEVELOPERS PVT. LTD. "FOREST TRAILS", CTS. Nos.16/1,19/1,21/1,21/1/2,35/1, 35/2,36(P),38/1,40/1,44/5 to 113/1/7, Village Bhugaon, Tal. Mulshi, Dist. Pune.		Order Reference
			As per verbal discussion
Sample Description/Type	Treated Sewage Effluent	Sample Collected by	Laboratory
Sampling Location	STP Outlet -160 KLD Pebble	Sample Quantity/Packing	2 L X 1 No. PVC Can 1 L X 1 No. Glass Bottle 100 mL X 1 No. PVC Can
Date of Sampling	29.12.2021	Date of Receipt of Sample	30.12.2021
Sampling Procedure	IS:3025(Part I):1987 RA 2019; APHA 23 rd Ed. 2017, 1060-B, 1-40		
Date of Start of Analysis	30.12.2021	Date of Completion of Analysis	07.01.2022

Sr. No.	Parameter	Unit	Result	Method Reference
Discipline: Chemical Testing; Product Group: Pollution & Environment(Waste Water)				
1.	pH	-	7.3	APHA 23 rd Ed. 2017, 4500-H ⁺ -B, 4-95
2.	Total Suspended Solids	mg/L	9	APHA 23 rd Ed. 2017, 2540-D, 2-70
3.	Total Residual Free Chlorine	mg/L	<0.05	APHA 23 rd Ed. 2017, 4500-Cl-G, 4-72
4.	Biochemical Oxygen Demand (3 days 27°C)	mg/L	7.5	IS 3025 (Part 44): 1993, Reaffirmed 2019
5.	Chemical Oxygen Demand	mg/L	24	APHA 23 rd Ed. 2017, 5220-B, 5-18
6.	Oil and Grease	mg/L	N.D.	IS 3025 (Part 39): 1991, Reaffirmed 2021, Amds.1
Remarks: N.D. Not Detected				

ULR-TC748721000017778F

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Harish Mendhi
TECHNICAL MANAGER



Note:

- The result listed refers only to the tested sample(s) and applicable parameter(s).
- This report is not to be reproduced except in full, without written approval of the laboratory.



TC-7487

Page 1 of 1

Plot No. F-7, Road No. 21, MIDC Wagle Estate, Thane West - 400604, Maharashtra
(Turn Opp Toyota Show Room 600 m from Hotel Rukhmini Palace. Next to Ashida Electrical. Near J B Sawant Bus Stop)
Phone: 2582 0658/3139/1663/3154 Fax: +91-22-25823543 thane@mahabal.com

QF/SALE/05/Issue No.03, Dt.05.12.2019, Amd.00, Dt.00



Mahabal Enviro Engineers Pvt. Ltd.

Engineer, Consultant, Environmental Monitoring Laboratory & Contractor

Plot Nos. 13,14,17,18, Grampanchayat Bokhara, 8 km from Nagpur City,
Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist.Nagpur-441111
Phone : 91-712-2612162, 2612212, WP:9326279040 Email: mahabal.nagpur@gmail.com

Test Report

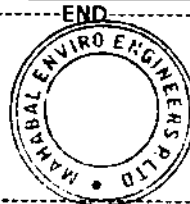
Report No.: ME-NG18910-220108-SA-FT-PUNE		Date: 08.01.2022	
Name and Address of Customer	MATRIX DEVELOPERS PVT. LTD. "FOREST TRAILS", CTS. Nos.16/1,19/1,21/1,21/1/2,35/1, 35/2,36(P),38/1,40/1,44/5 to 113/1/7, Village Bhugaon, Tal. Mulshi, Dist. Pune.		Order Reference
			As per verbal discussion
Sample Description/Type	Treated Sewage Effluent	Sample Collected by	Laboratory
Sampling Location	STP Outlet -160 KLD Highland	Sample Quantity/Packing	2 L X 1 No. PVC Can 1 L X 1 No. Glass Bottle 100 mL X 1 No. PVC Can
Date of Sampling	29.12.2021	Date of Receipt of Sample	30.12.2021
Sampling Procedure	IS:3025(Part I):1987 RA 2019; APHA 23 rd Ed. 2017, 1060-B, 1-40		
Date of Start of Analysis	30.12.2021	Date of Completion of Analysis	07.01.2022

Sr. No.	Parameter	Unit	Result	Method Reference
Discipline: Chemical Testing; Product Group: Pollution & Environment(Waste Water)				
1.	pH	-	7.3	APHA 23 rd Ed. 2017, 4500-H ⁺ -B, 4-95
2.	Total Suspended Solids	mg/L	8	APHA 23 rd Ed. 2017, 2540-D, 2-70
3.	Total Residual Free Chlorine	mg/L	<0.05	APHA 23 rd Ed. 2017, 4500-Cl-G, 4-72
4.	Biochemical Oxygen Demand (3 days 27°C)	mg/L	6.4	IS 3025 (Part 44): 1993, Reaffirmed 2019
5.	Chemical Oxygen Demand	mg/L	20	APHA 23 rd Ed. 2017, 5220-B, 5-18
6.	Oil and Grease	mg/L	N.D.	IS 3025 (Part 39): 1991, Reaffirmed 2021, Amds.1

Remarks: N.D. Not Detected

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Harish Mendhi
TECHNICAL MANAGER



Note:

- The result listed refers only to the tested sample(s) and applicable parameter(s).
- This report is not to be reproduced except in full, without written approval of the laboratory.



TC-7487



Page 1 of 1

QF/SALE/05/Issue No.03, Dt.05.12.2019, Amd 00, Dt.00

Plot No. F-7, Road No. 21, MIDC Wagle Estate, Thane West - 400604, Maharashtra
(Turn Opp Toyota Show Room 600 m from Hotel Rukhmini Palace. Next to Ashida Electrical. Near J B Sawant Bus Stop)
Phone: 2582 0658/3139/1663/3154 Fax: +91-22-25823543 thane@mahabal.com



Mahabal Enviro Engineers Pvt. Ltd.

Engineer, Consultant, Environmental Monitoring Laboratory & Contractor

Plot Nos. 13,14,17,18, Grampanchayat Bokhara, 8 km from Nagpur City,
Opp. Patel Petrol Pump, Chhindwara Road, Koradi, Dist.Nagpur-441111

Phone : 91-712-2612162, 2612212, WP:9326279040 Email: mahabal.nagpur@gmail.com

Test Report

Report No.: ME-NG18911-220108-SA-FT-PUNE		Date: 08.01.2022	
Name and Address of Customer	MATRIX DEVELOPERS PVT. LTD. "FOREST TRAILS", CTS. Nos.16/1,19/1,21/1,21/1/2,35/1, 35/2,36(P),38/1,40/1,44/5 to 113/1/7, Village Bhugaon, Tal. Mulshi, Dist. Pune.		Order Reference
			As per verbal discussion
Sample Description/Type	Treated Sewage Effluent	Sample Collected by	Laboratory
Sampling Location	STP Outlet	Sample Quantity/Packing	2 L X 1 No. PVC Can 1 L X 1 No. Glass Bottle 100 mL X 1 No. PVC Can
Date of Sampling	29.12.2021	Date of Receipt of Sample	30.12.2021
Sampling Procedure	IS:3025(Part I):1987 RA 2019; APHA 23 rd Ed. 2017, 1060-B, 1-40		
Date of Start of Analysis	30.12.2021	Date of Completion of Analysis	07.01.2022

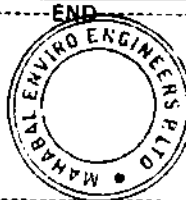
Sr. No.	Parameter	Unit	Result	Method Reference
Discipline: Chemical Testing; Product Group: Pollution & Environment(Waste Water)				
1.	pH	-	7.5	APHA 23 rd Ed. 2017, 4500-H ⁺ -B, 4-95
2.	Total Suspended Solids	mg/L	13	APHA 23 rd Ed. 2017, 2540-D, 2-70
3.	Total Residual Free Chlorine	mg/L	<0.05	APHA 23 rd Ed. 2017, 4500-Cl-G, 4-72
4.	Biochemical Oxygen Demand (3 days 27°C)	mg/L	5.3	IS 3025 (Part 44): 1993, Reaffirmed 2019
5.	Chemical Oxygen Demand	mg/L	16	APHA 23 rd Ed. 2017, 5220-B, 5-18
6.	Oil and Grease	mg/L	N.D.	IS 3025 (Part 39): 1991, Reaffirmed 2021, Amds.1

Remarks: N.D. Not Detected

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Harish Mendhi

TECHNICAL MANAGER



Note:

- The result listed refers only to the tested sample(s) and applicable parameter(s).
- This report is not to be reproduced except in full, without written approval of the laboratory.



TC-7487



Page 1 of 1

QF/SALE/05/Issue No.03, Dt.05.12.2019, Amd.00.Dt.00

Plot No. F-7, Road No. 21, MIDC Wagle Estate, Thane West - 400604, Maharashtra
(Turn Opp Toyota Show Room 600 m from Hotel Rukhmini Palace. Next to Ashida Electrical. Near J B Sawant Bus Stop)
Phone: 2582 0658/3139/1663/3154 Fax: +91-22-25823543 thane@mahabal.com

ULR-TC748721000017780F