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www.mahindralifespaces.com Date: 04<sup>th</sup> April, 2024

To, The Director Regional Office (West Central Zone), Ministry of Environment, Forest and Climate Change, Ground Floor, East wing, New Secretariat Building, Civil Iane, Nagpur-440001

| Subject: | Half-yearly Compliance Report:<br>October 2023 to March 2024  |
|----------|---|
| Project  | ECOHOMES TOWNSHIP LLP<br>Proposed Residential cum "Miracle" located on Survey No.<br>32A, 36C, 37 at Village Ranjnoli, Taluka Bhiwandi, Dist. Thane |
| EC No.   | SIA/MH/MIS/244299/2021 Dated. 10th June, 2022   |

Dear Sir,

We are submitting half-yearly Compliance Report (hard & soft copy) in respect of the stipulated terms and conditions of 'Prior Environmental Clearance' as specified in 'Environment Clearance' Notification Clause No. 10(I).

Thanking you, Yours faithfully, ECOHOMES TOWNSH 040 **Project Proponent** Enclosure:

2.

Mumbai

CC copy to:

- bar opy of the compliance and monitoring report
- Regional officer, Maharashtra Pollution Control Board, Kalyan S.R.O-I

Member Secretary, Maharashtra Pollution Control Board, Sion,

 Member Secretary, State Environmental Impact Assessment Authority, Govt. of Maharashtra, Mumbai



# **ECOHOMES TOWNSHIP LLP** Environmental Clearance Compliance Report

October 2023 to March 2024



At

Survey No. 32A, 36C, 37 at Village Ranjnoli, Taluka

Bhiwandi, Dist. Thane

(Environmental Clearance Letter No.: SIA/MH/MIS/244299/2021 Dated 10<sup>th</sup> June,2022)



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## **COMPLIANCE STATUS OF EC CONDITIONS**

## Environmental Clearance Letter No.: SIA/MH/MIS/244299/2021 Dated 10th June, 2022

| No | Condition  | Compliance                         | ? | Ρ |
|----|--|------------------------------------|---|---|
|    | SPECIFIC CONDITION   |                                    |   |   |
| Α. | SEAC CONDITIONS:   |                                    |   |   |
| 1. | PP to submit IOD/IOA/Concession<br>Document/Plan Approval or any other form<br>of documents as applicable clarifying its<br>conformity with local planning rules and<br>provisions as per the Circular dated<br>30.01.2014 issued by the Environment<br>Department, Govt. of Maharashtra | Noted.                             |   |   |
| 2. | PP to obtain the following NOCs & remarks<br>a) Sewer Connection; b) SWD NOC;<br>c) Final CFO NOC; d) Tree NOC.  | Noted.                             |   |   |
| 3. | Planning authority to ensure that assured<br>water supply, Sewer connections/lines are<br>made available within the vicinity of the<br>project before issuing Occupation Certificate<br>to the project   | Noted.                             |   |   |
| 4. | PP to Ensure that treated water parameters are as per NGT norms  | PP will comply with the condition. |   |   |
| 5. | PP to maintain adequate distance between STP & OWC.  | PP will comply with the condition. |   |   |
| 6. | PP to provide adequate 4-wheeler parking<br>as per as per prevailing GDC Regulations &<br>ensure that minimum 25% of total parking<br>are equipped with electric charging facility   | PP will comply with the condition. |   |   |
| 7. | PP to obtain permission from MMRDA for discharge of treated water in to the adjacent Nalla.  | PP will comply with the condition. |   |   |
| 8. | PP to submit carbon emission and carbon foot print report for the project.   | Noted.                             |   |   |
| 9. | PP to provide Septic tank for workers<br>during construction phase.<br>PP to Adopt water Conservation measures in<br>operation phase by providing low flow<br>devices (LFD) as Plumbing Fixtures.<br>Accordingly, Revise EMP of Construction &<br>Operation phase.                       | Noted.                             |   |   |
| В. | SEIAA CONDITIONS:  |                                    |   |   |
| 1. | PP to keep open space unpaved so as to<br>ensure permeability of water. However,<br>whenever paving is deemed necessary, PP<br>to provide grass pavers of suitable types &   | Noted                              |   |   |

|       | strength to increase the water permeable area as well as to allow effective fire tender movement.   |   |
|-------|---|---|
| 3.    | PP to achieve at least 5% of total energy requirement from solar/other renewable sources.   | PP will comply with the condition. Energy saving calculations already submitted during SEIAA meeting.   |
| 4.    | PP Shall comply with Standard EC conditions mentioned in the Office Memorandum issued by MoEF & CC vide F.No.22-34/2018-IA.III dt.04.01.2019.   | PP comply with the condition  |
| 5.    | SEIAA after deliberation decided to grant         EC for- FSI – 93864.26 m², Non FSI-         20407.39 m², Total BUA- 114271.65 m².         (MMRD Plan Approval No.,         SROT//BSNA//25011/BP/Ranjnoli         18/1281/LA-2021, date 03.12.2021).   | Noted   |
|       | GENERAL CONDITIONS:   |   |
| a)    | Construction Phase:   |   |
| (i)   | The solid waste generated should be<br>properly collected and segregated.<br>Dry/inert solid waste should be disposed<br>of to the approved sites for land filling after<br>recovering recyclable material.   | Waste generated in worker<br>camps is municipal solid<br>waste which is segregated<br>onsite, and treated by local<br>municipal authorities.  |
| (ii)  | Disposal of muck, Construction spoils,<br>including bituminous material during<br>construction phase should not create any<br>adverse effect on the neighboring<br>communities and be disposed taking the<br>necessary precautions for general safety<br>and health aspects of people, only in the<br>approved sites with the approval of<br>competent authority. | stored, and/or transported<br>and utilized for land filling (or<br>land leveling both onsite or<br>offsite)<br>All safety precautions will be<br>taken by the PP. The safety<br>nets, safety equipment's to<br>the workers, barricading to<br>plot boundary, water<br>spraying at source of dust<br>(twice in a day) and noise<br>pollution mitigation<br>measures will take. |
| (iii) | Any hazardous waste generated during<br>construction phase should be disposed of as<br>per applicable rules and norms with<br>necessary approvals of the Maharashtra<br>Pollution Control Board   | No hazardous waste will be<br>generated during<br>construction & operation<br>phase.  |
| (iv)  | Adequate drinking water and sanitary facilities should be provided for construction workers at the site. Provision should be made for mobile toilets. The safe disposal   | Adequate sanitary and<br>hygiene measures will be<br>taken. Temporary sanitation<br>with septic tank and separate   |

|        | of wastewater and solid wastes generated<br>during the construction phase should be<br>ensured.   | toilets for ladies and gents<br>will be provided to the<br>workers. All of these will be<br>maintained in clean and<br>operative condition for<br>complete period of<br>construction.   |              |
|--------|---|---|--------------|
| (v)    | Arrangement shall be made that waste water and storm water do not get mixed.  | The Storm water drains<br>and sewer lines will be<br>separately provided on site.<br>This arrangement shall<br>ensure that storm water and<br>sewage will not get mixed.  |              |
| (vi)   | Water demand during construction should<br>be reduced by use of pre- mixed<br>concrete, curing agents and other best<br>practices.  | Curing compound,<br>Conbextra, and Renderoc are<br>products made by Fosroc<br>that are used on construction<br>sites. They help in saving<br>water.   |              |
| (vii)  | The ground water level and its quality should<br>be monitored regularly in consultation<br>with Ground Water Authority.   | Noted   |              |
| (viii) | Permission to draw ground water for<br>construction of basement if any shall be<br>obtained from the competent Authority<br>prior to construction/operation of the<br>project.                    | Ground water is not used<br>for any Purpose. PP will take<br>permission from concerned<br>Authority if required.  |              |
| (ix)   | Fixtures for showers, toilet flushing and<br>drinking should be of low flow either by<br>use of aerators or pressure reducing<br>devices or sensor-based control.                                 | Low flow Fixtures for<br>showers, toilet flushing and<br>drinking will be provided.   |              |
| (x)    | The Energy Conservation Building code shall be strictly adhered to.   | <ul> <li>For energy conservation PP will use:</li> <li>LED lamps</li> <li>BEE 3 star rated lamps and fittings</li> <li>Energy sufficient pumps and motors Solar panel</li> </ul>  |              |
| (xi)   | All the topsoil excavated during construction activities should be stored for use in horticulture/landscape development within the project site.  | There is absence of top soil<br>and presence of backfill<br>materials and boulders till 1<br>m and rocks below and the<br>project will use the soil for<br>backfill, and hence top layer<br>of soil is unsuitable for<br>landscaping in the project |              |
| (xii)  | Additional soil for levelling of the proposed<br>site shall be generated within the sites (to<br>the extent possible) so that natural<br>drainage system of the area is protected<br>and improved | The excavated soil will be used for backfilling.  |              |
| (xiii) | Soil and ground water samples will be tested to ascertain that there is no threat to  | The Soil and ground water quality will be regularly   | $\checkmark$ |

|         | ground water quality by leaching of heavy metals and other toxic contaminants.   | monitored by MOEF&CC accredited lab   |
|---------|--|---|
| (xiv)   | PP to strictly adhere to all the conditions<br>mentioned in Maharashtra (Urban Areas)<br>Protection and Preservation of Trees Act,<br>1975 as amended during the validity of<br>Environment Clearance  | PP will comply with the condition   |
| (xv)    | The diesel generator sets to be used during<br>construction phase should be low Sulphur<br>diesel type and should conform to<br>Environments (Protection) Rules prescribed<br>for air and noise emission standards.  | PP will comply with the condition   |
| (xvi)   | PP to strictly adhere to all the conditions<br>mentioned in Maharashtra (Urban Areas)<br>Protection and Preservation of Trees Act,<br>1975 as amended during the validity of<br>Environment Clearance.   | PP will comply with the condition.  |
| (xvii)  | Vehicles hired for transportation of Raw<br>material shall strictly comply the emission<br>norms prescribed by Ministry of Road<br>Transport & Highways Department. The<br>vehicle shall be adequately covered to avoid<br>spillage/leakages.  | Vehicles with PUC will only<br>be hired for bringing<br>construction material to the<br>site and are checked for PUC<br>at main gate.   |
| (xviii) | Ambient noise levels should conform to<br>residential standards both during day and<br>night. Incremental pollution loads on the<br>ambient air and noise quality should be<br>closely monitored during construction<br>phase. Adequate measures should be made<br>to reduce ambient air and noise level<br>during construction phase, so as to conform<br>to the stipulated standards by CPCB/MPCB.   | Presence of online AQI<br>monitoring system on site<br>which provides real-time<br>AQI, PM 10 & PM 2.5 levels   |
| (xix)   | Diesel power generating sets proposed as<br>source of backup power for elevators and<br>common area illumination during<br>construction phase should be of enclosed<br>type and conform to rules made under the<br>Environment (Protection) Act, 1986. The<br>height of stack of DG sets should be equal to<br>the height needed for the combined capacity<br>of all proposed DG sets. Use low Sulphur<br>diesel is preferred. The location of the DG<br>sets may be decided with in consultation<br>with Maharashtra Pollution Control Board. | At present DG has not been installed at construction site.  |
| (xx)    | Regular supervision of the above and other<br>measures for monitoring should be in<br>place all through the construction phase,<br>so as to avoid disturbance to the<br>surroundings by a separate<br>environment cell<br>/Designated person   | Supervisors trained in<br>Environmental Management<br>measures will be in place and<br>they will be responsible for<br>onsite Environmental<br>Management Plan. Also,<br>quarterly assessment of EMP<br>and other environmental<br>regulatory conditions<br>monitored by corporate<br>sustainability team |

| b)    | Operation phase:   |   |
|-------|--|---|
| (i)   | a) The solid waste generated should be<br>properly collected and segregated. b) Wet<br>waste should be treated by Organic Waste<br>Converter and treated waste (manure)<br>should be utilized in the existing premises<br>for gardening. And, no wet garbage will be<br>disposed outside the premises. c) Dry/inert<br>solid waste should be disposed of to the<br>approved sites for land filling after<br>recovering recyclable material.  | Solid waste will be collected<br>and segregated at source.<br>Wet waste will be treated in<br>OWC & dry waste will be sent<br>to Municipal authority.   |
| (ii)  | E-waste shall be disposed through<br>Authorized vendor as per E-waste<br>(Management and Handling) Rules, 2016   | E-waste generated will be<br>disposed through authorized<br>vendor as per E- Waste<br>(Management and Handling)<br>Rules, 2016.   |
| (iii) | a) The installation of the Sewage<br>Treatment Plant (STP) should be certified<br>by an independent expert and a report in<br>this regard should be submitted to the<br>MPCB and Environment department<br>before the project is commissioned for<br>operation. Treated effluent emanating<br>from STP shall be recycled/ reused to the<br>maximum extent possible. Treatment 9f<br>100% grey water by decentralized<br>treatment should be done. Necessary<br>measures should be made to mitigate<br>the odour problem from STP. b) PP to<br>give 100 % treatment to sewage /Liquid<br>waste and explore the possibility to<br>recycle at least 50 % of water, Local<br>authority should ensure this. | PP will install STP of 945<br>m <sup>3</sup> /day total capacity at<br>site.<br>The MBBR technology will be<br>used for the STP. The plant is<br>designed as per standards<br>prescribed by Maharashtra<br>Pollution Control Board. |
| (iv)  | Project proponent shall ensure completion<br>of STP, MSW disposal facility, green belt<br>development prior to occupation of the<br>buildings. As agreed during the SEIAA<br>meeting, PP to explore possibility of<br>utilizing excess treated water in the adjacent<br>area for gardening before discharging it into<br>sewer line No physical occupation or<br>allotment will be given unless all above<br>said environmental infrastructure is installed<br>and made functional including water<br>requirement.   | Occupation will only be<br>allotted after completion and<br>commissioning of STP, MSW<br>disposal facility and green<br>belt development.   |
| (v)   | The Occupancy Certificate shall be issued<br>by the Local Planning Authority to the<br>project only after ensuring sustained<br>availability of drinking water, connectivity of<br>sewer line to the project site and proper<br>disposal of treated water as per<br>environmental norms.   | PP will comply with the condition.  |

|        | 1  |   |              |
|--------|--|---|--------------|
| (vi)   | Traffic congestion near the entry and exit<br>points from the roads adjoining the<br>proposed project site must be avoided.<br>Parking should be fully internalized and no<br>public space should be utilized.   | Entry & exit to the proposed<br>project will be located in such<br>a way that it won't affect<br>traffic on the adjoining<br>roads. Also, sufficient<br>parking is provided.            |              |
| (vii)  | PP to provide adequate electric charging points for electric vehicles (EVs).   | PP complies with the condition.   |              |
| (viii) | Green Belt Development shall be carried<br>out considering CPCB guidelines including<br>selection of plant species and in consultation<br>with the local DFO/ Agriculture Dept.  | Approximately 4591.16 m <sup>2</sup><br>of the landscape area will be<br>developed within the project<br>site. Tree plantation along<br>the plot boundary is as per<br>CPCB guidelines. |              |
| (ix)   | A separate environment management cell<br>with qualified staff shall be set up for<br>implementation of the stipulated<br>environmental safeguards   | PP will make the provision for<br>environment management<br>cell with qualified staff for the<br>implementation of the<br>stipulated environmental<br>safeguards.                       |              |
| (x)    | Separate funds shall be allocated for<br>implementation of environmental protection<br>measures/EMP along with item-wise breaks-<br>up. This cost shall be included as part of<br>the project cost. The funds earmarked for<br>the environment protection measures shall<br>not be diverted for other purposes   | PP will allot separate funds<br>for environmental protection<br>measures / EMP and provided<br>as per planned requirement.  |              |
| (xi)   | The project management shall advertise at<br>least in two local newspapers widely<br>circulated in the region around the project,<br>one of which shall be in the Marathi<br>language of the local concerned within<br>seven days of issue of this letter,<br>informing that the project has been accorded<br>environmental clearance and copies of<br>clearance letter are available with the<br>Maharashtra Pollution Control Board and<br>may also be seen at Website at<br>parivesh.nic.in | PP has given advertisement<br>in Marathi newspaper<br>"Maharashtra Times" on 25 <sup>th</sup><br>Nov 2022 and English<br>newspaper "Mumbai Mirror"<br>on 20 <sup>th</sup> Nov 2022.     | $\checkmark$ |
| (xii)  | Project management should submit half<br>yearly compliance reports in respect of<br>the stipulated prior environment<br>clearance terms and conditions in hard &<br>soft copies to the MPCB & this department,<br>on 1st June<br>& 1st December of each calendar year.   | PP will be submitting the six-<br>monthly monitoring reports to<br>the department of MPCB<br>Regional Office, MoEF,<br>Nagpur and Env. Dept.<br>Mumbai.                                 | $\checkmark$ |
| (xiii) | A copy of the clearance letter shall be sent by<br>proponent to the concerned Municipal<br>Corporation and the local NGO, if any, from<br>whom suggestions/representations, if any,<br>were received while processing the<br>proposal. The clearance letter shall also be<br>put on the website of the Company by the<br>proponent.  | The half yearly compliance<br>report to MPCB will be<br>regularly submitted.  |              |

| (xiv)     | The proponent shall upload the status of<br>compliance of the stipulated EC conditions,<br>including results of monitored data on their<br>website and shall update the same<br>periodically. It shall simultaneously be. sent<br>to the Regional Office of MoEF, the<br>respective Zonal Office of CPCB and the<br>SPCB. The criteria pollutant levels namely;<br>SPM, RSPM. 802, NOx (ambient levels as<br>well as stack emissions) or critical sector<br>parameters, indicated for the project shall be<br>monitored and displayed at a convenient<br>location near the main gate of the<br>company in the public domain. | Noted.   |              |  |
|-----------|--|--|--------------|--|
| <b>c)</b> | General EC Conditions:   |  |              |  |
| (i)       | PP has to strictly abide by the conditions stipulated by SEAC & SEIAA  | Agreed. PP will comply with the conditions stipulated by SEAC and SEIAA.   |              |  |
| (ii)      | If applicable Consent for Establishment"<br>shall be obtained from Maharashtra<br>Pollution Control Board under Air and Water<br>Act and a copy shall be submitted to the<br>Environment department before start of any<br>construction work at the site.  | We have received CTE on 23.03.2023.  | V            |  |
| (iii)     | Under the provisions of Environment<br>(Protection) Act, 1986, legal action shall be<br>initiated against the project proponent if it<br>was Found Construction of the project has<br>been started without obtaining<br>environmental clearance.   | Prior Environmental<br>Clearance was taken for this<br>project. EC vide letter no.<br>SIA/MH/MIS/246128/2021<br>Dated 29.08.2022.  | $\checkmark$ |  |
| (iv)      | The project proponent shall also submit six<br>monthly reports on the status of<br>compliance of the stipulated EC conditions<br>including results of monitored data (both in<br>hard copies as well as by e-mail) to the<br>respective Regional Office of MoEF, the<br>respective Zonal Office of CPCB and the<br>SPCB.   | PP will be submitting<br>complete set of all documents<br>to department.   |              |  |
| (v)       | The environmental statement for each financial year ending 31 <sup>st</sup> March in Form-<br>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.  | Six monthly reports<br>regarding the status of<br>compliance of EC conditions<br>will regularly be sent to all<br>mandated authorities.<br>PP will submit<br>environmental statement for<br>each financial year ending<br>31st March in Form-V to the<br>concerned State Pollution<br>Control Board. | ~            |  |
| (vi)      | No further Expansion or modifications, other<br>than mentioned in the EIA Notification,<br>2006 and its amendments, shall be carried<br>out without prior approval of the SEIAA. In  | Noted.   |              |  |

|       |   |   | 1            |  |
|-------|---|---|--------------|--|
|       | case of deviations or alterations in the<br>project proposal from those submitted to<br>SEIAA for clearance, a fresh reference shall<br>be made to the SEIAA as applicable to<br>assess the adequacy of conditions imposed<br>and to add additional environmental<br>protection measures required, if any.  |   |              |  |
| (vii) | This environmental clearance is issued<br>subject to obtaining NOC from Forestry &<br>Wild life angle including clearance from the<br>standing committee of the National Board<br>for Wild life as if applicable & this<br>environment clearance does not necessarily<br>imply that Forestry & Wild life clearance<br>granted to the project which will be<br>considered separately on merit  | Noted.  |              |  |
| 4     | The environmental clearance is being issued<br>without prejudice to the action initiated<br>under EP Act or any court case pending in<br>the court of law and it does not mean that<br>project proponent has not violated any<br>environmental laws in the past and<br>whatever decision under EP Act or of the<br>Hon'ble court will be binding on the project<br>proponent. Hence this clearance does not<br>give immunity to the project proponent in<br>the case filed against him, if any or action<br>initiated under EP Act. | Noted.  |              |  |
| 5     | This Environment Clearance is issued purely<br>from an environment point of view without<br>prejudice to any court cases and all other<br>applicable permissions/ NOCs shall be<br>obtained before starting proposed work at<br>site.   | Noted.  |              |  |
| 6     | In case of submission of false document and<br>non-compliance of stipulated conditions,<br>Authority/ Environment Department will<br>revoke or suspend the Environment<br>clearance without any intimation and initiate<br>appropriate legal action under Environmental<br>Protection Act, 1986.  | Noted.  |              |  |
| 7     | Validity of Environment Clearance: The<br>environmental clearance accorded shall be<br>valid as per EIA Notification, 2006,<br>amended from time to time.   | PP has received the<br>Environment Clearance<br>SIA/MH/MIS/244299/2021<br>Dated 10.06.2022 and as<br>per MoEF notification dated<br>12.04.2022 it is valid up to<br>10.06.2032. | $\checkmark$ |  |
| 8     | The above stipulations would be enforced<br>among others under the Water (Prevention<br>and Control of Pollution) Act, 1974, the Air<br>(Prevention and Control of Pollution) Act,<br>1981, the Environment (Protection) Act,<br>1986 and rules there under, Hazardous<br>Wastes (Management and Handling) Rules,   | Noted.  |              |  |

|   | 1989 and its amendments, the public Liability<br>Insurance Act, 1991 and its amendments.  |  |  |
|---|---|--|--|
| 9 | Any appeal against this Environment<br>clearance shall lie with the National Green<br>Tribunal (Western Zone Bench, Pune), New<br>Administrative Building, 1st Floor, D-Wing,<br>Opposite Council Hall, Pune, if preferred,<br>within 30 days as prescribed under Section<br>16 of the National Green Tribunal Act, 2010. |  |  |

#### **CONDITIONS OF CONSENT TO ESTABLISH**

#### Consent Order No. Format1.0/CC/UAN No.0000154659/CE/2303001626 dated 23.03.2023

| No | Condi  | ition         |           |                       |                               | Compliance                            |   | Ρ |
|----|--|---------------|-----------|-----------------------|-------------------------------|---------------------------------------|---|---|
| 1. | The Consent to Establish is granted for a period |               |           |                       |                               | Noted.                                |   |   |
|    | up to Commissioning of Project or up to 5 years  |               |           |                       |                               |                                       |   |   |
|    |  | ever is earli |           |                       |                               |                                       |   |   |
| 2. |  | •             |           | •                     | t is Rs.412.22                | C.A Certificate was                   |   |   |
|    |  |               |           |                       | l by industry).               | submitted to the MPCB.                |   |   |
| 3. |  |               |           |                       | or Residential                | Noted.                                |   |   |
|    |  |               |           |                       | ect named as                  |                                       |   |   |
|    | -  |               |           | • •                   | vey No. 32 A,                 |                                       |   |   |
|    |  |               |           |                       | Dist: Thane on                |                                       |   |   |
|    |  |               |           | •                     | Itrs for Total                |                                       |   |   |
|    |  |               |           |                       | qMtrs, as per uding utilities |                                       |   |   |
|    |  | services.     | Eu 10.0   | 5.2022 IIICI          | uting utilities               |                                       |   |   |
|    | Sr.  | Permissio     | n Pic     | t Area                | BUA (SqMtr)                   | -                                     |   |   |
|    | No   | Obtained      |           | aMtr)                 | BOA (Sqiiti)                  |                                       |   |   |
|    | 1  | Environme     |           | 356.08                | 114271.65                     | -                                     |   |   |
|    | -  | Clearance     |           | 550.08                | 1142/1.05                     |                                       |   |   |
|    |  | granted o     |           |                       |                               |                                       |   |   |
|    |  | 10.06.202     |           |                       |                               |                                       |   |   |
| 4. | Cond   | itions unde   | r Wator   | $(D_{2}, C_{2}) = 10$ | 74 Act for                    | The 890 m <sup>3</sup> /day of sewage |   |   |
| 4. |  | arge of Effl  |           | (FACF), 15            | 74 ACL 101                    | generated will be treated in          |   |   |
|    | Sr   | Descriptio    | Permitt   | e Standa              | Disposal                      | sewage treatment                      |   |   |
|    | No   | n             | d (In     | rds To                | Disposal                      | servage a cathlene                    |   |   |
|    |  |               | CMD)      | 1                     |                               | Plant of 945 $m^3$ /day.              |   |   |
|    | 1.   | Trade         | Nil       | NA                    | NA                            |                                       |   |   |
|    |  | effluent      |           |                       |                               |                                       |   |   |
|    | 2.   | Domestic      | 890.04    | As per                | The treated                   |                                       |   |   |
|    |  | effluent      |           | Schedu                | effluent shall<br>be          |                                       |   |   |
|    |  |               |           | le - I                | 60%                           |                                       |   |   |
|    |  |               |           |                       | recycled for                  |                                       |   |   |
|    |  |               |           |                       | secondary<br>purposes         |                                       |   |   |
|    |  |               |           |                       | such as                       |                                       |   |   |
|    |  |               |           |                       | toilet                        |                                       |   |   |
|    |  |               |           |                       | flushing,<br>air              |                                       |   |   |
|    |  |               |           |                       | conditioning                  |                                       |   |   |
|    |  |               |           |                       | , cooling                     |                                       |   |   |
|    |  |               |           |                       | tower<br>make up,             |                                       |   |   |
|    |  |               |           |                       | firefighting                  |                                       |   |   |
|    |  |               |           |                       | etc. and                      |                                       |   |   |
|    |  |               |           |                       | remaining<br>shall be         |                                       |   |   |
|    |  |               |           |                       | connected to                  |                                       |   |   |
|    |  |               |           |                       | the                           |                                       |   |   |
|    |  |               |           |                       | sewerage<br>system            |                                       |   |   |
|    |  |               |           |                       | provided                      |                                       |   |   |
|    |  |               |           |                       | by local body                 |                                       |   |   |
| 5. | Condi  | tions under   | ۵ir (۵ ۹  | , CP) Δc+ 1           | 981 for air                   | Acoustic-enclosed DG sets             |   |   |
| J. | emiss  |               | ייזו עד פ |                       |                               | will be Provided.                     |   |   |
|    | CI1155   |               |           |                       |                               | min be i tovidedi                     | 1 | 1 |

|     | Sr.<br>No.                                    | Description of<br>Stack/source   |  | Number<br>of Stack  | Standards<br>to be<br>achieved                 |                            |      |     |  |
|-----|---|--|--|---|--|----------------------------|------|-----|--|
|     | 1   | D.G. Set 600 k   | (VA)   | 1   | As per<br>schedule-<br>II                      |                            |      |     |  |
| 6.  | Condit  | ions about Nor   | n-Haza                                       | rdous Was   |  | Noted.                     |      |     |  |
|     | Sr.<br>No.                                    | Type of<br>Waste   | Quanti<br>y                                  |   |  |                            |      |     |  |
|     | 1   | Dry Waste  | 1212<br>Kg/da                                | y -   | Sold to<br>Authoriz<br>ed<br>Recycler          |                            |      |     |  |
|     | 2   | Wet Waste  | 1809<br>Kg/da                                | owc   | Used as<br>Manure                              |                            |      |     |  |
|     | 3   | STP Sludge   | 123.25<br>Kg/da                              | 5 OWC   | Used as manure                                 |                            |      |     |  |
| 7.  | Condit  | ions under Ha  |  |   | her Wastes                                     |                            |      |     |  |
|     | (Manag  | gement and   | Transt                                       | oundary   | Movement)                                      |                            |      |     |  |
|     |   | 2016 for t   | reatme                                       | ent and   | disposal of                                    |                            |      |     |  |
|     | hazard  | ous waste  | 0  |   | Diamagal                                       |                            |      |     |  |
|     | Sr.<br>No.                                    | Category   | Quant<br>y                                   | it UOM  | Disposal                                       |                            |      |     |  |
|     |   |  | NA   |   |  |                            |      |     |  |
| 8.  |   | all comply with<br>mental Clearance  |  |   |  | Noted.                     |      |     |  |
|     |   | BG of Rs. 10   |  |   |  |                            |      |     |  |
|     | the sar                                       |  | Lanano                                       |   |  |                            |      |     |  |
| 9.  |   | all install an o<br>L of STP for mo  |  | -   |  | Noted.                     |      |     |  |
| 10. | recycle<br>flushin<br>up, fir<br>utilized     | eated domesti<br>ed for seconda<br>g, air conditio<br>refighting etc.<br>d on land for ga<br>werage system       | ry pur<br>ning, c<br>and<br>ardenin          | pose such<br>ooling tow<br>reaming<br>g and coni          | as toilet<br>ver make<br>shall be<br>nected to | Noted.                     |      |     |  |
| 11. | digeste                                       | : Proponent s<br>er with comp<br>er with compo   | osting                                       | facility  |  | Noted.                     |      |     |  |
| 12. | chargi  | : Proponent<br>ng port for El<br>cotal available   | ectric                                       | vehicles  |  |                            | with | the |  |
| 13  | Constr<br>Rules 2                             |  | nolitior                                     | Waste n   | -  | conditions.                | with | the |  |
| 14. | to con<br>constru                             | : Proponent sh<br>trol noise a<br>uction phase   | nd du  | st emissi   | ons during                                     | Noted.                     |      |     |  |
| 15. | Board's<br>regard                             | : Proponent s<br>s prescribed<br>ing the compl   | forma<br>iance c                             | t within  | 15 days<br>onditions.                          | Noted.                     |      |     |  |
| 16. | condit<br>grante<br>SIA/M<br>This e<br>letter | ct proponent<br>tions stipulated<br>ed by<br>1H/MIS/24429<br>consent is issu<br>dated 03/11/2<br>etent authority | d in En<br>GOM<br>9/2021<br>ued as<br>2022 w | vironment<br>1, vid<br>dtd. 10.<br>per com<br>/hich is ap | Clearance<br>e No.<br>06.2022.<br>munication   | PP complies<br>conditions. | with | the |  |

## Schedule - I

## **Terms & conditions for compliance of Water Pollution Control**

| No | Con                          | dition   |   |  |   | Ρ |
|----|------------------------------|--|---|--|---|---|
| 1  |                              | provide<br>(STPs)  | MBBR based Sev<br>of combined cap   | you have proposed to<br>vage Treatment Plants<br>pacity <b>895 CMD for</b><br><b>ffluent of 890.04 CMD.</b>                                  | PP agrees<br>with the<br>condition. PP<br>will install<br>STP of<br>capacity 945<br>m <sup>3</sup> /day to<br>treat 890<br>m <sup>3</sup> /day of<br>generated<br>sewage<br>water and<br>will get it<br>certified by<br>an<br>independent                   |   |
|    | (STP<br>stan<br>Rule         | P) to treat the<br>dards prescrist<br>made the<br>gent           | ne sewage so as bed by the Board of   | e sewage treatment plant<br>to achieve the following<br>or under EP Act, 1986 and<br>ne to time, whichever is                                | expert.<br>Yes, PP will use<br>MBBR technology<br>for sewage<br>treatment. PP will<br>achieve the<br>standards<br>prescribed by the<br>Board or under EP<br>Act, 1986, and<br>Rules made there<br>under<br>from time to<br>time, whichever<br>is stringent. |   |
|    | C. 1<br>seco<br>cond<br>rema | The treated of<br>ndary purpos<br>litioning, coo<br>aining shall | lomestic effluent s<br>ses such as<br>bling tower make<br>be utilized on l          | shall be 60% recycled for<br>toilet flushing, air<br>up, firefighting etc. and<br>and for gardening and<br>provided by local body.           |   |   |
| 2  | or o<br>wat<br>disp<br>with  | other data r<br>erworks for t<br>oosal of sev                    | elating to plant se<br>he purification the<br>vage or trade ef<br>of any consent co | view plans, specifications<br>etup for the treatment of<br>reof & the system for the<br>ffluent or in connection<br>onditions. The Applicant | PP agrees with the condition.   |   |

| 3 | consent of the Board to take steps to establish the unit or<br>establish any treatment and disposal system or and<br>extension or addition theretoThe industry shall ensure replacement of pollution controlPP agrees with                    |   |                 |                 |                |  |  |  |
|---|---|---|-----------------|-----------------|----------------|--|--|--|
| 5 | systen<br>expiry o<br>to ensu   | or its parts after<br>of its expected life as d<br>are the compliance of so<br>on thereof.  | efined by manu  | ıfacturer so as | the condition. |  |  |  |
| 4 | (Prever   | Dicant shall comply with<br>ation & Control of<br>ed, and other provisions<br>The purpose for water<br>consumed<br>Industrial Cooling,<br>spraying in mine pits or<br>boiler feed<br>Domestic purpose<br>Processing whereby water<br>gets polluted & pollutants<br>are easily biodegradable<br>Processing whereby water<br>gets polluted & pollutants<br>are not easily<br>biodegradable and are<br>toxic | Pollution) Act, | 1974 and as     |                |  |  |  |
| 5 | 5       The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act. 1986 and rule made the condition.       PP agrees with the condition.         there under from time to time       the condition. |   |                 |                 |                |  |  |  |

#### **CONSENT SCHEDULE-II**

# Terms & conditions for compliance of Air Pollution Control:

| No | Condition   | Compliance  | Ρ |
|----|---|---|---|
|    | Schedule-II   |   |   |
|    | Terms & conditions for compliance of Air  |   |   |
|    | Pollution Control:  |   |   |
| 1. | As per your application, you have proposed to<br>provide the Air pollution control (APC) system and<br>also proposed to erect the following stack (s) and<br>to observe the following fuel pattern<br>Stack Stack APC Ht Type Sulphur Pollutants S<br>no. attached system (m) of content t  | PP will install DG<br>set for Residential<br>building: 1 no. of<br>set 600 kVA<br>capacity. The DG<br>set will have |   |
|    | no.     attached<br>to     system     (m)     of<br>fuel     content<br>(in %)     t       1     DG set<br>600 kVA     Acoustic<br>Enclosure     5.00     HSD<br>125.5     SO2     6       Ltr/Hr     -     -     -     -     -   | stack height as per<br>MPCB norms   |   |
| 2. | The applicant shall operate and maintain above<br>mentioned air pollution control system, so as to<br>achieve the level of pollutants to the following<br>standards.Particulate MatterNot to exceed150 mg/Nm³   | The prescribed<br>standard is being<br>achieved.  |   |
| 3. | The Applicant shall obtain necessary prior permission<br>for providing additional control equipment with<br>necessary specifications and operation thereof or<br>alteration or replacement alteration well before its<br>life come to end or erection of new pollution control<br>equipment   | PP agrees with the condition.   |   |
| 4. | The Board reserves its rights to vary all or any<br>of the conditions in the consent, if due to any<br>technological improvement or otherwise such<br>variation (including the change of any control<br>equipment. other in whole or in part is necessary).   | PP agrees with the condition.   |   |
| 5  | <ul> <li>Conditions for utilities like Kitchen, Eating Places, and Canteens: -</li> <li>a) The kitchen shall be provided with exhaust system chimney with oil catcher connected to chimney through ducting.</li> <li>b) The toilet shall be provided with exhaust system connected to chimney through ducting.</li> <li>c) The air conditioner shall be vibration proof and the noise shall not exceed 68 dB(A).</li> <li>d) The exhaust hot air from A.C. shall be attached to Chimney at least 5 mtrs. higher than the nearest tallest building through ducting and shall discharge into open air in such a way that no nuisance is caused to neighbors.</li> </ul> | PP agrees with the condition.   |   |

## **CONSENT SCHEDULE-III**

## **Details of Bank Guarantees**

| S<br>r | Consen<br>t<br>(C2E/C<br>20)/C | Amt of BG<br>impose<br>d | Submissi<br>on on<br>period | Purpose<br>of BG   | Complia<br>nce<br>Period  | Validit<br>y Date   | Complia<br>n ce   |
|--------|--------------------------------|--------------------------|-----------------------------|--|---|---|---|
| 1      | C2E                            | Rs.10<br>Lakh            | 15 days                     | Towards<br>Complian<br>ce of EC<br>& Consent<br>conditions | up to<br>commissio<br>ning of the<br>unit or five<br>years<br>whichever<br>is | up to<br>commissioni<br>ng of the<br>unit or five<br>years<br>whichever is<br>earlier | PP has<br>submitted<br>d the<br>bank<br>guarante<br>e to<br>MPCB. |

**\*\*** The above Bank Guarantee(s) shall be submitted by the applicant in favor 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 the period of validity as above**.

## **BG Forfeiture History**

| Sr | Consent<br>(C2E/C2O)/C2R) | Amt of BG<br>imposed | Submission<br>period | Purpose<br>of BG | Amount<br>of BG<br>Forfeiture | Reason of<br>BG<br>Forfeiture |  |
|----|---------------------------|----------------------|----------------------|------------------|-------------------------------|-------------------------------|--|
|    | N/A                       |                      |                      |                  |                               |                               |  |

#### **BG Return details**

| Sr | Consent<br>(C2E/C2O)/C2R) | BG imposed | Purpose of<br>BG | Amount of BG Returned |
|----|---------------------------|------------|------------------|-----------------------|
|    |                           | N/         | /Α               |                       |

## **CONSENT SCHEDULE-IV**

|    | Conditions during const   | i action phase  |              |   |
|----|---|---|--------------|---|
| No | Condition   | Compliance  | ?            | Ρ |
| A  | During construction phase, applicant shall<br>provide temporary sewage disposal and MSW<br>facility for staff and worker quarters   | Waste generated in worker<br>camps is municipal solid waste<br>which is segregated onsite,<br>and treated by local municipal<br>authorities.<br>Generated Sewage Dispose to |              |   |
|    |   | Septic Tank   |              |   |
| B  | During the construction phase, the ambient<br>air and noise quality should be closely<br>monitored to achieve Ambient Air Quality<br>Standards and Noise by the project<br>proponent through MoEF approved<br>laboratory  | PP agrees with the condition.   |              |   |
| C  | Noise should be controlled to ensure that it<br>does not exceed the prescribed standards.<br>During night-time, the noise levels measured<br>at the boundary of the building shall be<br>restricted to the permissible levels to comply<br>with the prevalent regulations | Available Noise Monitoring<br>results for the month of<br>October 2023 to March 2024<br>are attached.   | $\checkmark$ |   |

## **Conditions during construction phase**

# **General Conditions**

| No. | Condition  | Compliance                    | Ρ |
|-----|--|-------------------------------|---|
|     | General Conditions:  |                               |   |
| 1.  | The applicant shall provide facility for collection<br>of samples of sewage effluents, air emissions<br>and hazardous waste to the Board staff at the<br>terminal or designated points and shall pay to<br>the Board for the services rendered in this<br>behalf.  | PP agrees with the condition. |   |
| 2.  | The firm shall strictly comply with the Water<br>(P&CP) Act, 1974, Air (P&CP) Act,1981 and<br>Environmental Protection Act 1986 and Solid<br>Waste Management Rule 2016, Noise<br>(Pollution and Control) Rules, 2000 and E-<br>Waste (Management & Handling Rule 2011.  | PP agrees with the condition. |   |
| 3.  | Drainage system shall be provided for<br>collection of sewage effluents. Terminal<br>manholes shall be provided at the end of the<br>collection system with arrangement for<br>measuring the flow. No sewage shall be<br>admitted in the pipes/sewers downstream of<br>the terminal manholes. No sewage shall find<br>its way other than in designed and provided<br>collection system | PP agrees with the condition. |   |

| 4. | Vehicles hired for bringing construction<br>material to the site should be in good<br>condition and should conform to applicable air<br>and noise emission standards and should be<br>operated only during non-peak hours to the<br>concerned State Pollution Control Board on or<br>before the 30th day of June following the<br>financial year to which that return relates.  | PP agrees with the condition.   |              |  |
|----|---|---|--------------|--|
| 5. | Conditions for D.G. Set   |   |              |  |
|    | <ul> <li>a. Noise from the D.G. set should be<br/>controlled by providing an acoustic<br/>enclosure or by treating the room<br/>acoustically.</li> </ul>  | PP agrees with the condition.   |              |  |
|    | b. Industry should provide acoustic enclosure<br>for control of noise. The acoustic enclosure/<br>acoustic treatment of the room should be<br>designed for minimum 25 dB (A) insertion<br>loss or for meeting the ambient noise<br>standards, whichever is on higher side. A<br>suitable exhaust muffler with insertion loss<br>of 25 dB (A) shall also be provided. The<br>measurement of insertion loss will be done<br>at different points at 0.5 meters from<br>acoustic enclosure/room and then average. | Sampling results have been<br>incorporated with compliance<br>for October 2023 to March<br>2024 are attached.   | $\checkmark$ |  |
|    | c. Industry should make efforts to bring<br>down noise level due to DG set, outside<br>industrial premises, within ambient noise<br>requirements by proper sitting and<br>control measures.   | PP agrees with the condition.   |              |  |
|    | <ul> <li>Installation of DG Set must be strictly in<br/>compliance with recommendations of DG<br/>Set manufacturer.</li> </ul>  | PP agrees with the condition.   |              |  |
|    | e. A proper routine and preventive maintenance<br>procedure for DG set should be set and<br>followed in consultation with the DG<br>manufacturer which would help to prevent<br>noise levels of DG set from deteriorating with<br>use.  |   |              |  |
|    | <ol> <li>D.G. Set shall be operated only in case of<br/>power failure.</li> </ol>   | PP will operate the Temporary<br>DG set only in case of power<br>failure.   |              |  |
|    | g. The applicant should not cause any nuisance<br>in the surrounding area due to operation of<br>D.G. Set.  | PP has provided Temporary<br>DG set of acoustic enclosure.<br>PP has ensured that no<br>nuisance is created in the<br>surrounding area due to<br>operation of D.G. Set. |              |  |

|    | <ul> <li>h. The applicant shall comply with the<br/>notification of MoEF&amp;CC, India on<br/>Environment (Protection) second<br/>Amendment Rules vide GSR 371(E) dated<br/>17.05.2002 and its amendments regarding<br/>noise limit for generator sets run with diesel</li> </ul>            | PP agrees with the condition.   |  |
|----|--|---|--|
| 6  | Solid Waste – The applicant shall provide<br>onsite municipal solid waste processing<br>system & shall comply with Solid Waste<br>Management Rule 2016 & E-Waste (M &<br>H) Rule 2011.   | Wet garbage will be<br>composted and used as<br>organic manure  |  |
| 7  | Affidavit undertaking in respect of no<br>change in the status of consent conditions<br>and compliance of the consent conditions<br>the draft can be downloaded from the<br>official web site of the MPCB.   | PP has submitted affidavit<br>undertaking in respect of no<br>change in the status of<br>consent conditions |  |
| 8. | Applicant shall submit official e-mail address<br>and any change will be duly informed to the<br>MPCB.   | PP has submitted official email address.  |  |
| 9  | The treated sewage shall be disinfected using suitable disinfection method.  | PP will provide MBBR<br>technology for treating<br>sewage water   |  |
| 10 | The firm shall submit to this office, the 30th<br>day of September every year, the<br>environment statement report for the<br>financial year ending 31st march in the<br>prescribed Form-V as per the provision of<br>rule 14 of the Environmental (Protection)<br>Second Amended rule 1992. | PP will submit Form V for each financial year.  |  |
| 11 | The applicant shall obtain Consent to Operate<br>from Maharashtra Pollution Control Board<br>before commissioning of the project.  | PP agrees with the condition.   |  |

#### ANNEXURE I

Previous compliance report acknowledgement copy



Ajeet Kumar CMD <mahabal.thane@gmail.com>

## EC Compliance monitoring Report Submission\_April 2023 to September 2023\_Proposed Residential Cum Commercial Project "Miracle" Located on Survey No. 32 A, 36C, 37 at Village Ranjnoli, Taluka - Bhiwandi, dist. Thane Proposed by M/s. Ecohomes Township LLP

mahabal.thane@gmail.com <mahabal.thane@gmail.com>

Mon, Dec 11, 2023 at 12:43 PM

To: SRO Kalyan 1 <srokalyan1@mpcb.gov.in>, mpcbmumbai@mpcb.gov.in Cc: priyankashinde <priyankashinde@ymail.com>, VARADHAN SHANMUGAM - MLDL <VARADHAN.SHANMUGAM@mahindra.com>, Ajeet Kumar <mahabal.cmd@gmail.com>

тo,

#### **Regional Officer**

Maharashtra Pollution Control Board, Sidhivinayak Sankul,3rd and 4th Floor, Station Road, Kalyan (West)-421301

Reference: Environmental Clearance Letter no: SIA/MH/MIS/244299/2021 dated: 10.06.2022

Dear Sir,

\_\_\_

Please find attached Herewith the half-yearly compliance monitoring report of the Proposed Residential Cum Commercial Project "Miracle" Located on Survey No. 32A, 36C, 37 at Village Ranjnoli, Taluka -Bhiwandi, Dist. Thane Proposed by M/s. Ecohomes Township LLP.

District Thane April 2023 to September 2023

Regards, Apoorva Varma 8879945367

Office of: Mahabal Enviro Engineers Pvt. Ltd. - THANE BRANCH Plot F 7, Road 21, MIDC Wagle Estate, Thane West-400604 (Turn opp. Toyota showroom @ Golden Nest Hotel >>straight>> 550m) Phone: 022-35097207/9137566620/8928386332 Email: mahabal.thane@gmail.com PLEASE NOTE THIS IS COMMON EMAIL ID USED BY ALL STAFF MEMBERS FOR GENERAL COMMUNICATION ONLY.

Compliance Report \_Ecohomes Township LLP-Miracle\_April 2023 to September 2023\_Final.pdf 6455K



To: vijay.patil@nic.in

Ajeet Kumar CMD <mahabal.thane@gmail.com>

## EC Compliance monitoring Report Submission\_April 2023 to September 2023\_Proposed Residential Cum Commercial Project "Miracle" Located on Survey No. 32 A, 36C, 37 at Village Ranjnoli, Taluka - Bhiwandi, dist. Thane Proposed by M/s. Ecohomes Township LLP

mahabal.thane@gmail.com <mahabal.thane@gmail.com>

Mon, Dec 11, 2023 at 12:43 PM

Cc: Ajeet Kumar <mahabal.cmd@gmail.com>, priyankashinde <priyankashinde@ymail.com>, VARADHAN SHANMUGAM -MLDL <VARADHAN.SHANMUGAM@mahindra.com>

To, Environment Department, Government of Maharashtra 15th Floor, New Administrative Buildings, Mantralaya, Mumbai-400032

Reference: Environmental Clearance Letter no: SIA/MH/MIS/244299/2021 dated: 10.06.2022

Dear Sir,

Please find attached Herewith the half-yearly compliance monitoring report of the Proposed Residential Cum Commercial Project "Miracle" Located on Survey No. 32A, 36C, 37 at Village Ranjnoli, Taluka -Bhiwandi, Dist. Thane Proposed by M/s. Ecohomes Township LLP

District Thane April 2023 to September 2023

Regards, Apoorva Varma 8879945367

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Ajeet Kumar CMD <mahabal.thane@gmail.com>

## EC Compliance monitoring Report Submission\_April 2023 to September 2023\_Proposed Residential Cum Commercial Project "Miracle" Located on Survey No. 32 A, 36C, 37 at Village Ranjnoli, Taluka - Bhiwandi, dist. Thane Proposed by M/s. Ecohomes Township LLP

**mahabal.thane@gmail.com** <mahabal.thane@gmail.com> To: eccompliance-mh@gov.in Mon, Dec 11, 2023 at 12:43 PM

Cc: priyankashinde <priyankashinde@ymail.com>, Ajeet Kumar <mahabal.cmd@gmail.com>, VARADHAN SHANMUGAM - MLDL <VARADHAN.SHANMUGAM@mahindra.com>

To, The Director Integrated Regional Officer, Ministry of Environment, Forest and Climate Change, Ground Floor, East Wing, New Secretariat Building, Civil Lane, Nagpur-440001

Reference: Environmental Clearance Letter no: SIA/MH/MIS/244299/2021 dated: 10.06.2022

Dear Sir,

Please find attached Herewith the half-yearly compliance monitoring report of the Proposed Residential Cum Commercial Project "Miracle" Located on Survey No. 32A, 36C, 37 at Village Ranjnoli, Taluka -Bhiwandi, Dist. Thane Proposed by M/s. Ecohomes Township LLP

District Thane April 2023 to September 2023 --Regards, Apoorva Varma 8879945367

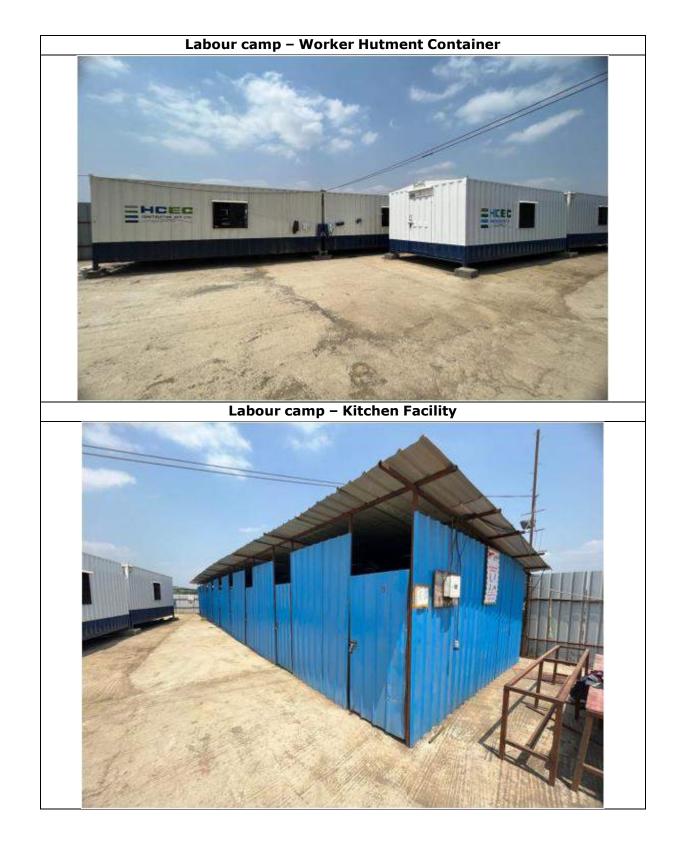
Office of: Mahabal Enviro Engineers Pvt. Ltd. - THANE BRANCH Plot F 7, Road 21, MIDC Wagle Estate, Thane West-400604 (Turn opp. Toyota showroom @ Golden Nest Hotel >>straight>> 550m) Phone: 022-35097207/9137566620/8928386332 Email: mahabal.thane@gmail.com PLEASE NOTE THIS IS COMMON EMAIL ID USED BY ALL STAFF MEMBERS FOR GENERAL COMMUNICATION ONLY.

Compliance Report \_Ecohomes Township LLP-Miracle\_April 2023 to September 2023\_Final.pdf 6455K

#### ANNEXURE II

#### Site Photographs









#### **ANNEXURE III**

#### Advertisements



English newspaper "Mumbai Mirror" on 20<sup>th</sup> Nov 2022



Marathi newspaper "Maharashtra Times" on 25<sup>th</sup> Nov 2022

#### **ANNEXURE IV**

**Environmental Clearance Letter** 



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#### STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

No. SIA/MH/MIS/244299/2021 Environment & Climate Change Department Room No. 217, 2<sup>rd</sup> Floor, Mantralaya, Mumbai- 400032.

To M/s. Ecohomes Townships LLP. Survey No. 32A, 36C, 37 Village Ranjnoli, Taluka Bhiwandi, Dist. Vhane

> Subject : Environment Clearance for Proposed Residential cum Commercial Project "Miracle" located on Survey No. 32A, 36C, 37 at Village Ranjnoli, Taluka Bhiwandi, Dist. Thane proposed by M/s. Ecohomes Townships LLP

Reference :: Application no. SIA/MII/MIS/244299/2021

This has reference to your communication on the above-mentioned subject. The proposal was considered by the SEAC-2 in its 169<sup>th</sup> meeting under screening category 8 (a) B2 as per EIA Notification, 2006 and recommend to SEIAA. Proposal then considered in 243<sup>rd</sup> (Day-3) meeting of State Level Environment Impact Assessment Authority (SEIAA).

| Sr.<br>Na. | Description   | Details            |  |            |
|------------|---|--------------------|--|------------|
| Ï          | Plot Area (sq. m.)                                    | 41.356.08          | •  |            |
| 2          | FSI Area (sq. m.)                                     | 93.864.26          |  |            |
| 3          | N0on-FSI (sq. m.)                                     | 20,407.39          |  |            |
| 4          | Proposed built-up<br>area (FSI + Non<br>FSI) (sq. m.) | 1,14,271.65        |  |            |
|            |   | Building :<br>Name | Configuration  | Height (m) |
|            |   | Tower A            | Gr + 1 <sup>×</sup> to 8 <sup>th</sup> Floor - 9 <sup>th</sup> Refuge Flour -<br>10 <sup>th</sup> to 14 <sup>th</sup> Fluor  | 43.75      |
| 5          | Building  | Tower B            | Gr + 1 <sup>st</sup> to 8 <sup>th</sup> Floor + 9 <sup>th</sup> Refuge Floor +<br>10 <sup>th</sup> to 14 <sup>th</sup> Floor | 43.75      |
|            | Configuration   | Tower C            | Gr + 1 <sup>-s</sup> to 8 <sup>th</sup> Floor + 9 <sup>th</sup> Refuge Floor +<br>10 <sup>th</sup> to 14 <sup>th</sup> Floor | 43.75      |
|            |   | Tnwer D            | Gr = 1 <sup>n</sup> to 8 <sup>th</sup> Fluxer + 9 <sup>th</sup> Refuge Floor +<br>10 <sup>th</sup> to 14 <sup>th</sup> Floor | 43.75      |
| l          |   | Tower E            | $Gr = 1^{st}$ to $8^{th}$ Fluor + $9^{th}$ Refuge Floor +  | 43.75      |

Brief Information of the project submitted by you is as below:-

| Se.<br>No.                                 | Description   | Details   |                |  |
|--|---|---|----------------|--|
|  | <b></b>   | 10 <sup>th</sup> to 14 <sup>th</sup> Floor  |                |  |
|  |   | Tower F Gr - 1st to 8th Floor + 9th Refuge Floor +  | 43.75          |  |
|  |   | 10 <sup>th</sup> to 14 <sup>th</sup> Floor  |                |  |
|  |   | Tower G Gr + 1 <sup>st</sup> to 8 <sup>th</sup> Floor + 9 <sup>th</sup> Refuge Floor +  | 43.75          |  |
|  |   | 10 <sup>th</sup> to 14 <sup>th</sup> Floor  |                |  |
|  |   | Tower H Gr = $1^{st}$ to $8^{th}$ Floor + $9^{th}$ Refuge Floor +   | 43.75          |  |
|  |   | 10 <sup>th</sup> to 14 <sup>th</sup> Flour  |                |  |
|  |   | MLCP Gr + 1 <sup>st</sup> to 3 <sup>id</sup> Floor  | 11.85          |  |
|  |   | Club House Gr + 1 <sup>a</sup> Floor  | 6.30           |  |
|  |   | Tuwn Gr + 1 <sup>st</sup> Floor   | 6.30           |  |
|  |   | House   |                |  |
|  | ···· •·· ···  | Residential Flats: 1491, Town House: 10, Commercial   | Units: 14 &    |  |
| 6  | No. of Tenements & _<br>Shops   | Clab House  |                |  |
|  |   | (Tower A: Flat-138, Commercial Units: 8; Tower B: 186:  | lower C: 246;  |  |
|  |   | Tower D: 245; Tower F: 232; Tower F: 176; Tower G: 14   | -              |  |
|  |   | 127; Commercial Units: 6: Town House (Villa): 10 & Ch   |                |  |
|  |   | 7811  |                |  |
|  |   | (Tower A: 762; Tower B: 930; Tower C: 1230; Tower D: 1225; Tower E:   |                |  |
| -  | Treel Barrelation   | 1 (Tower A: 762; Tower B: 930; Tower C: 1230; Tower D:  | 1225; Tower E: |  |
| 7  | Total Population  | <sup>1</sup> (Tower A: 762; Tower B: 930; Tower C: 1230; Tower D:<br>1160; Tower F: 880; Tower G: 705; Tower H: 687; Town   |                |  |
| 7  | Total Population  |   |                |  |
| 7  |   | 1160; Tower F: 880: Tower G: 705; Tower H: 687; Town  |                |  |
| 7  | Total Water   | 1160; Tower F: 880: Tower G: 705; Tower H: 687; Town<br>10 & Club House)  | House (Villa): |  |
|  |   | 1160; Tower F: 880: Tower G: 705; Tower H: 687; Town<br>10 & Club House)<br>1057.13 CMD   | House (Villa): |  |
| 8  | Total Water   | 1160; Tower F: 880: Tower G: 705; Tower H: 687; Town<br>10 & Club House)<br>1057.13 CMD<br>(Domestic: 682.88 CMD + Flushing: 343.29 CMD + Gar<br>CMD)   | House (Villa): |  |
|  | Total Water<br>Requirements CMD   | 1160; Tower F: 880: Tower G: 705; Tower H: 687; Town<br>10 & Club House)<br>1057.13 CMD<br>(Domestic: 682.88 CMD + Flushing: 343.29 CMD + Gar   | House (Villa): |  |
| <b>8</b><br>9                              | Total Water<br>Requirements CMD<br>Sewage Generation<br>CMD   | 1160; Tower F: 880: Tower G: 705; Tower H: 687; Town<br>10 & Club House)<br>1057.13 CMD<br>(Domestic: 682.88 CMD + Flushing: 343.29 CMD + Gar<br>CMD)   | House (Villa): |  |
| 8  | Total Water<br>Requirements CMD<br>Sewage Generation<br>CMD<br>STP Capacity &   | 1160; Tower F: 880: Tower G: 705; Tower H: 687; Town<br>10 & Club House)<br>1057.13 CMD<br>(Domestic: 682.88 CMD + Flushing: 343.29 CMD + Gar<br>CMD)<br>89(0.03 CMD  | House (Villa): |  |
| <b>8</b><br>9                              | Total Water<br>Requirements CMD<br>Sewage Generation<br>CMD   | 1160; Tower F: 880: Tower G: 705; Tower H: 687; Town<br>10 & Club House)<br>1057.13 CMD<br>(Demestic: 682.88 CMD + Flushing: 343.29 CMD + Gar<br>CMD)<br>89(1.03 CMD<br>STP Capacity: 895 CMD   | House (Villa): |  |
| <b>8</b><br>9<br>10<br>∎1                  | Total Water<br>Requirements CMD<br>Sewage Generation<br>CMD<br>STP Capacity &<br>Technology   | <ul> <li>1160; Tower F: 880: Tower G: 705; Tower H: 687; Town<br/>10 &amp; Club House)</li> <li>1057.13 CMD<br/>(Demestic: 682.88 CMD + Flushing: 343.29 CMD + Gar<br/>CMD)</li> <li>89(103 CMD</li> <li>STP Capacity: 895 CMD</li> <li>STP Technology: Sequencing Batch Reactor (SBR)</li> </ul>   | House (Villa): |  |
| <b>8</b><br>9                              | Total Water<br>Requirements CMD<br>Sewage Generation<br>CMD<br>STP Capacity &<br>Technology<br>STP Location   | <ul> <li>1160; Tower F: 880; Tower G: 705; Tower H: 687; Town<br/>10 &amp; Club House)</li> <li>1057.13 CMD<br/>(Demestic: 682.88 CMD + Flushing: 343.29 CMD + Gar<br/>CMD)</li> <li>89(0.03 CMD</li> <li>STP Capacity: 895 CMD</li> <li>STP Technology: Sequencing Batch Reactor (SBR)</li> <li>STP Location: Ground &amp; Under Ground Level</li> </ul>   | House (Villa): |  |
| <b>8</b><br>9<br>10<br>∎1                  | Total Water<br>Requirements CMD<br>Sewage Generation<br>CMD<br>STP Capacity &<br>Technology<br>STP Location<br>Total Solid Waste  | 1160; Tower F: 880: Tower G: 705; Tower H: 687; Town         10 & Club House)         1057.13 CMD         (Demestic: 682.88 CMD + Flushing: 343.29 CMD + Gar         CMD)         89(0.03 CMD         STP Capacity: 895 CMD         STP Technology: Sequencing Batch Reactor (SBR)         STP Location: Ground & Under Ground Level         Dry waste (kg/d)       1212  | House (Villa): |  |
| <b>8</b><br>9<br>10<br>∎1                  | Total Water<br>Requirements CMD<br>Sewage Generation<br>CMD<br>STP Capacity &<br>Technology<br>STP Location<br>Total Solid Waste  | 1160; Tower F: 880: Tower G: 705; Tower H: 687; Town         10 & Club House)         1057.13 CMD         (Demestic: 682.88 CMD + Flushing: 343.29 CMD + Gar         CMD)         89(0.03 CMD         STP Capacity: 895 CMD         STP Technology: Sequencing Batch Reactor (SBR)         STP Location: Ground & Under Ground Level         Dry waste (kg/d)       1212         Wet waste (kg/d)       1809  | House (Villa): |  |
| <b>8</b><br>9<br>10                        | Total Water<br>Requirements CMD<br>Sewage Generation<br>CMD<br>STP Capacity &<br>Technology<br>STP Location<br>Total Solid Waste  | 1160; Tower F: 880: Tower G: 705; Tower H: 687; Town         10 & Club House)         1057.13 CMD         (Demestic: 682.88 CMD + Flushing: 343.29 CMD + Gar         CMD)         89(1.03 CMD         STP Capacity: 895 CMD         STP Technology: Sequencing Batch Reactor (SBR)         STP Location: Ground & Under Ground Level         Dry waste (kg/d)       1212         Wet waste (kg/d)       1809         RG required -       4186.82 sq. m.   | House (Villa): |  |
| 8<br>9<br>10<br>11                         | Total Water<br>Requirements CMD<br>Sewage Generation<br>CMD<br>STP Capacity &<br>Technology<br>STP Location<br>Total Solid Waste<br>Quantities  | 1160; Tower F: 880; Tower G: 705; Tower H: 687; Town10 & Club House)1057.13 CMD(Demestic: 682.88 CMD + Flushing: 343.29 CMD + GarCMD)89(103 CMDSTP Capacity: 895 CMDSTP Technology: Sequencing Batch Reactor (SBR)STP Location: Ground & Under Ground LevelDry waste (kg/d)1212Wet waste (kg/d)1809RG required —4186.82 sq. m.RG provided on Ground-3038.41 sq. m.  | House (Villa): |  |
| 8<br>9<br>10<br>11<br>12                   | Total Water<br>Requirements CMD<br>Sewage Generation<br>CMD<br>STP Capacity &<br>Technology<br>STP Location<br>Total Solid Waste<br>Quantities  | 1160; Tower P: 880: Tower G: 705; Tower H: 687; Town         10 & Club House)         1057.13 CMD         (Demestic: 682.88 CMD + Flushing: 343.29 CMD + Gar         CMD)         \$9(1.03 CMD         STP Capacity: 895 CMD         STP Technology: Sequencing Batch Reactor (SBR)         STP Location: Ground & Under Ground Level         Dry waste (kg/d)       1212         Wet waste (kg/d)       1809         RG required —       4186.82 sq. m.         RG provided on Ground-       3038.41 sq. m.         RG provided on prodium -       1552.75 sq. m.         Total RG Provided —       4591.16 sq. m. | House (Villa): |  |
| 8<br>9<br>10<br>11                         | Total Water<br>Requirements CMD<br>Sewage Generation<br>CMD<br>STP Capacity &<br>Technology<br>STP Location<br>Total Solid Waste<br>Quantities  | 1160; Tower F: 880: Tower G: 705; Tower H: 687; Town10 & Club House)1057.13 CMD(Demestic: 682.88 CMD + Flushing: 343.29 CMD + GarCMD)89(103 CMDSTP Capacity: 895 CMDSTP Technology: Sequencing Batch Reactor (SBR)STP Location: Ground & Under Ground LevelDry waste (kg/d)1212Wet waste (kg/d)1809RG required -4186.82 sq. m.RG provided on Ground-3038.41 sq. m.RG provided on prodium -1552.75 sq. m.Total RG Provided -4591.16 sq. m.Connected load (kW)5594.10   | House (Villa): |  |
| 8<br>9<br>10<br>11<br>12<br>13             | Total Water<br>Requirements CMD<br>Sewage Generation<br>CMD<br>STP Capacity &<br>Technology<br>STP Location<br>Total Solid Waste<br>Quantities<br>R.G. Area   | 1160; Tower F: 880: Tower G: 705; Tower H: 687; Town10 & Club House)1057.13 CMD(Demestic: 682.88 CMD + Flushing: 343.29 CMD + GarCMD)\$90.03 CMD\$90.03 CMD\$TP Capacity: 895 CMD\$TP Technology: Sequencing Batch Reactor (SBR)\$TP Location: Ground & Under Ground LevelDry waste (kg/d)1212Wet waste (kg/d)1809RG required —4186.82 sq. m.RG provided on Ground-3038.41 sq. m.RG provided on pidium -1552.75 sq. m.Total RG Provided —4591.16 sq. m.Connected Joad (kW)5594.10Demand Joad (kW)2701.84  | House (Villa): |  |
| 8<br>9<br>10<br>11<br>12<br>13<br>14<br>15 | Total Water<br>Requirements CMD<br>Sewage Generation<br>CMD<br>STP Capacity &<br>Technology<br>STP Location<br>Total Solid Waste<br>Quantities<br>R.G. Area<br>Power requirement<br>Energy Lificiency | 1160; Tower F: 880: Tower G: 705; Tower H: 687; Town10 & Club House)1057.13 CMD(Demestic: 682.88 CMD + Flushing: 343.29 CMD + GarCMD)\$9(1.03 CMD\$9(1.03 CMD\$97 Capacity: 895 CMD\$7P Capacity: 895 CMD\$7P Technology: Sequencing Batch Reactor (SBR)\$7P Location: Ground & Under Ground LevelDry waste (kg/d)\$1212Wet waste (kg/d)\$1809\$RG required -\$1809\$RG provided on Ground-\$3038.41 sq. m.\$RG provided on prodium -\$1552.75 sq. m.\$7018 RG Provided -\$4591.16 sq. m.\$2701.84\$19.73 %   | House (Villa): |  |
| 8<br>9<br>10<br>11<br>12<br>13             | Total Water<br>Requirements CMD<br>Sewage Generation<br>CMD<br>STP Capacity &<br>Technology<br>STP Location<br>Total Solid Waste<br>Quantities<br>R.G. Area   | 1160; Tower F: 880: Tower G: 705; Tower H: 687; Town10 & Club House)1057.13 CMD(Demestic: 682.88 CMD + Flushing: 343.29 CMD + GarCMD)\$90.03 CMD\$90.03 CMD\$TP Capacity: 895 CMD\$TP Technology: Sequencing Batch Reactor (SBR)\$TP Location: Ground & Under Ground LevelDry waste (kg/d)1212Wet waste (kg/d)1809RG required —4186.82 sq. m.RG provided on Ground-3038.41 sq. m.RG provided on pidium -1552.75 sq. m.Total RG Provided —4591.16 sq. m.Connected Joad (kW)5594.10Demand Joad (kW)2701.84  | House (Villa): |  |

| Sr.<br>No. | Description                                 | Details  |
|------------|---|--|
| 19         | Rain water<br>harvesting scheme             | RWH Tank: 260 cum  |
| 20         | Project Cost in (Cr.)                       | R5.412,22 Cr   |
| 21         | EMP Cost                                    | Capital Cost: 1091.35 Lacs,<br>Operation & Maintenance Cost: 103.9 Lacs/year |
| 22         | CER Details with<br>justification if<br>any | 1.5 % of Project Cost (As per OM by MOEF&CC dated 01.05.2018)                |

3. Proposal is a new construction project. Proposal has been considered by SEJAA in its 243<sup>rd</sup> (Day-3) meeting and decided to accord Environment Clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implantation of following terms and conditions-

#### Specific Conditions:

## A. SEAC Conditions-

- PP to submit IOD/IOA/Concession Document/Plan Approval or any other form of documents as applicable clarifying its conformity with local planning roles and provisions as per the Circular dated 30.01.2014 issued by the Environment Department, Govt. of Maharashtra.
- PP to obtain following NOCs & remarks
   a) Sewer Connection; b) SWD NOC; c) Final CFO NOC; d) Tree NOC.
- Planning authority to ensure that assured water supply. Sewer connections/lines are made available within the vicinity of the project before issuing Occupation Certificate to the project.
- 4. PP to ensure that treated water parameters are as per NGT norms.
- 5. PP to maintain adequate distance between STP &OWC.
- PP to provide adequate 4-wheeler parking as per as per prevailing GDC Regulations & ensure that minimum 25% of total parking are equipped with electric charging facility.
- PP to obtain permission from MMRDA for discharge of treated water in to the adjacent Nalla.
- 8. PP to submit carbon emission and carbon fout print report for the project.
- PP to provide portable STP for workers during construction phase. PP to adopt water conservation measures in operation phase by providing I ow Flow Devices (LFD) as plumbing fixtures. Accordingly, revise EMP of Construction & Operation phase.

#### B. SEIAA Conditions-

- PP to keep open space unpaved so as to ensure permeability of water. However, whenever paving is deemed necessary, PP to provide grass pavers of suitable types & strength to increase the water permeable area as well as to allow effective fire tender movement.
- 2. PP to achieve at least 5% of total energy requirement from solar/other renewable.

sources.

- PP Shall comply with Standard EC conditions mentioned in the Office Memorandum issued by MoEF& CC vide F.No.22-34/2018-JA.HI dt.04.01.2019.
- SEIAA after deliberation decided to grant EC for FSI- 93864-26 m2, Non FSI-20407.39 m2, Total BUA -114271.65 m2, (MMRDA Plan approval No. SROT//BSNA//2501//BP/Ranjnoli-18/1281/LA-2021, dated 03.12.2021).

#### General Conditions:

#### a) Construction Phase :-

- I. The solid waste generated should be properly collected and segregated. Dry/inert solid waste should be disposed of to the approved sites for fand tilling after recovering recyclable material.
- II. Disposal of muck, Construction spoils, including hituminous material during construction phase should not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in the approved sites with the approval of competent authority.
- III. Any hazardous waste generated during construction phase should be disposed of as per applicable rules and norms with necessary approvals of the Maharashtra Pollution Control Board.
- IV. Adequate drinking water and sanitary facilities should be provided for construction workers at the site. Provision should be made for mobile toilets. The safe disposal of wastewater and solid wastes generated during the construction phase should be ensured.
- V. Arrangement shall be made that waste water and storm water do not get mixed.
- V). Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices.
- VII. The ground water level and its quality should be monitored regularly in consultation with Ground Water Authority.
- VIII. Permission to draw ground water for construction of basement if any shall be obtained from the competent Authority prior to construction/operation of the project.
  - IX. Fixtures for showers, toilet floshing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control.
  - X. The Energy Conservation Building code shall be strictly adhered to.
  - XI. All the topsoil excavated during construction activities should be stored for use in horticulture / landscape development within the project site.
- XII. 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.
- XIII. Soil and ground water samples will be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.
- XIV. PP to strictly adhere to all the conditions mentioned in Maharashtra (Urban Areas) Protection and Preservation of Trees Act. 1975 as amended during the validity of Environment Clearance.
- XV. The diesel generator sets to be used during construction phase should be low sulphur diesel type and should conform to Environments (Protection) Rules prescribed for air

and noise emission standards.

- XVI. PP to strictly adhere to all the conditions mentioned in Maharashtra (Urban Areas) Protection and Preservation of Trees Act, 1975 as amended during the validity of Environment Clearance.
- XVII. Vehicles hired for transportation of Raw material shall strictly comply the emission norms prescribed by Ministry of Road Transport & Highways Department. The vehicle shall be adequately envered to avoid spillage/leakages.
- XVIII. 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 monitured 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.
  - XIX. Diesel power generating sets proposed as source of backup power for elevators and common area illumination during construction phase should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use low sulphur diesel is preferred. The location of the DG sets may be decided with in consultation with Maharashtra Pollution Control Board.
  - XX. Regular supervision of the above and other measures for monitoring should be in place all through the construction phase, so as to avoid disturbance to the surroundings by a separate environment cell /designated person.

#### B) Operation phase:-

- I. a) The solid waste generated should be properly collected and segregated. b) Wet waste should be treated by Organic Waste Converter and treated waste (manure) should be utilized in the existing premises for gardening. And, no wet garbage will be disposed outside the premises. c) Dry/inert solid waste should be disposed of to the approved sites for land filling after recovering recyclable material.
- E-waste shall be disposed through Authorized vendor as per E-waste (Management and Handling) Rules, 2016.
- III. a) The installation of the Sewage Treatment Plant (STP) should be certified by an independent expert and a report in this regard should be submitted to the MPCB and Environment department before the project is commissioned for operation. Treated effluent emanating from STP shall be recycled/ reused to the maximum extent possible. Treatment of 100% grey water by decentralized treatment should be done. Necessary measures should be made to initigate the odour problem from STP. 6) PP to give 100 % treatment to sewage /Liquid waste and explore the possibility to recycle at least 50 % of water. Local authority should ensure this.
- IV. Project proponent shall ensure completion of STP. MSW disposal facility, green belt development prior to occupation of the buildings. As agreed during the SEIAA meeting, PP to explore possibility of utilizing excess treated water in the adjacent area for gardening before discharging it into sewer line No physical occupation or allotment will be given unless all above said environmental infrastructure is installed and made functional including water requirement.

- V. The Occupancy Certificate shall be issued by the Local Planning Authority to the project only after ensuring sustained availability of drinking water, connectivity of sewer line to the project site and proper disposal of treated water as per environmental norms.
- VI. Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking should be fully internalized and no public space should be utilized.
- VII. PP to provide adequate electric charging points for electric vehicles (EVs).
- 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. A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
  - X. Separate funds 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 carmarked for the environment protection measures shall not be diverted for other purposes.
  - XI. The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the Marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at http://parivesh.nic.in
- XII. 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)ii. 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.
- XIV. 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 enteria pollutant levels namely; SPM, RSPM, SO2, NOx (amhient 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.

#### C) General EC Conditions:-

- PP has to strictly abide by the conditions stipulated by SEAC& SEIAA.
- If applicable Consent for Establishment" shall be obtained from Maharashtra Pollution Control Board under Air and Water Act and a copy shall be submitted to the Environment department before start of any construction work at the site.
- 111. 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.
- IV. The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both)

in hard copies as well as by e-mail) to the respective Regional Office of MoFF, the respective Zonal Office of CPCB and the SPCB.

- V The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.
- VI. No further Expansion or modifications, other than mentioped in the FIA Notification, 2006 and its amendments, shall be carried out without prior approval of the SEIAA. In case of deviations or alterations in the project proposal from those submitted to SEIAA for clearance, a fresh reference shall be made to the SEIAA as applicable to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- 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 fife as if applicable & this environment clearance does not necessarily implies that Lorestry & Wild fife clearance granted to the project which will be considered separately on theret.

4. The environmental clearance is being issued without prejudice to the action initiated under EP Act of any court case pending in the court of law and it does not mean that project proponent has not violated any environmental faws in the past and whatever decision under EP Act or of the Hunble 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. This Environment Clearance is issued purely from an environment point of view without prejudice to any court cases and all other applicable permissions/ NOCs shall be obtained before starting proposed work at site.

6. In case of submission of false document and non-compliance of stipulated conditions, Authority/ Environment Department will revoke or suspend the Environment clearance without any intimation and initiate appropriate legal action under Environmental Protection Act, 1986.

 Validity of Environment Clearance: The environmental clearance accorded shall be valid as per EJA Notification, 2006, amended from time to time.

8. The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under. Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the public Liability fasurance Act, 1991 and its amendments.

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

Manisha Pa (Member S

Copy to:

- 1. Chairman, SUIAA, Mumbai.
- 2. Secretary, MoEP & CC, IA- Division MOEF & CC
- 3. Member Secretary, Maharashtra Pollution Control Board, Mumbai.
- 4. Regional Office MoEF & CC, Nagpur
- 5. District Collector, Thane.
- 6. Commissioner, MMRDA
- 7. Regional Officer, Maharashtra Pollution Control Board. Thane,

#### ANNEXURE V

**Consent to Establish** 

# 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.0000154659/CE/2303001626

To, M/s. Ecohomes Township LLP, Survey No. 32A, 36C, 37, Ranjnoli, Tal: Bhiwandi Dist: Thane.



#### Sub: Consent to Establish for Residential Cum Commercial Construction Project granted under red Category.

- **Ref:** 1. Environment Clearance granted vide No. SIA/MH/MIS/244299/2021 dtd. 10.06.2022.
  - 2. Minutes of 34th Consent Committee Meeting held on 01.03.2023.

Your application NO. MPCB-CONSENT-0000154659

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 / Renewal ofAuthorization under Rule 6 of the Hazardous & Other Wastes (Management & Transboundry 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 granted for a period upto commissioning of project or up to 5 year whichever is earlier.
- 2. The capital investment of the project is Rs.412.22 Cr. (As per C.A Certificate submitted by industry).
- 3. The Consent to Establish is valid for Residential Cum Commercial Construction Project named as M/s. Ecohomes Townships LLP, Survey No. 32A, 36C, 37, Ranjnoli, Tal: Bhiwandi, Dist: Thane on Total Plot Area of 41356.08 SqMtrs for Total construction BUA of 114271.65 SqMtrs, as per EC granted dated 10.06.2022 including utilities and services

| Sr.No | Permission Obtained                              | Plot Area (SqMtr) BUA (SqMt |           |  |
|-------|--|-----------------------------|-----------|--|
|       | Environment Clearance granted dtd.<br>10.06.2022 | 41356.08                    | 114271.65 |  |

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

| S | r No | Description    | Permitted (in CMD) | Standards to | Disposal |
|---|------|----------------|--------------------|--------------|----------|
|   | 1.   | Trade effluent | Nil                | NA           | NA       |

| Sr<br>No | Description          | Permitted | Standards to        | Disposal  |
|----------|----------------------|-----------|---------------------|---|
| 2.       | Domestic<br>effluent | 890.04    | As per Schedule - I | The treated effluent shall be<br>60% recycled for secondary<br>purposes such as toilet flushing,<br>air conditioning, cooling tower<br>make up, firefighting etc. and<br>remaining shall be connected to<br>the sewerage system provided<br>by local body |

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

| Stack No. | Description of stack /<br>source | Number of<br>Stack | Standards to be<br>achieved |
|-----------|----------------------------------|--------------------|-----------------------------|
| 1         | DG SET 600 KVA                   | 1                  | As per Schedule -II         |

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

| Sr No | Type Of Waste | Quantity & UoM | Treatment | Disposal                    |
|-------|---------------|----------------|-----------|-----------------------------|
| 1     | Dry Waste     | 1212 Kg/Day    | -         | Sold to Authorised recycler |
| 2     | Wet waste     | 1809 Kg/Day    | OWC       | Used as manure              |
| 3     | STP Sludge    | 123.25 Kg/Day  | OWC       | Used 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 |  |
|-------|--------------|----------|-----|-----------|----------|--|
| HE NA |              |          |     |           |          |  |

- 8. PP shall comply with the conditions stipulated in Environment Clearance & consent conditions and submit BG of Rs. 10 Lakhs towards compliance of the same.
- 9. PP shall install online monitoring system to the O/L of STP for monitoring pH, Flow, BOD, TSS
- 10. The treated domestic effluent shall be 60 % recycled for secondary purpose such as toilet flushing, air conditioning, cooling tower make up, firefighting etc. and reaming shall be utilized on land for gardening and connected to the sewerage system provided by local body.
- 11. Project Proponent shall provide Organic waste digester with composting facility or Biogas digester with composting facility
- 12. Project Proponent shall make provision of charging port for Electric vehicles in at least 30% total available parking area
- 13. PP shall comply with the provision of Construction & Demolition Waste management Rules 2016

- 14. Project Proponent shall take adequate measures to control noise and dust emissions during construction phase
- 15. project Proponent shall submit an affidavit in Board's prescribed format within 15 days regarding the compliance of C to E conditions.
- 16. Project proponent shall comply with the conditions stipulated in Environment Clearance granted by GOM, vide No. SIA/MH/MIS/244299/2021 dtd. 10.06.2022.
  - This consent is issued as per communication letter dated 03/11/2022 which is approved by competent authority of the board.

#### **Received Consent fee of -**

| Sr.No | Amount(Rs.) | Transaction/DR.No. | Date       | Transaction Type |
|-------|-------------|--------------------|------------|------------------|
| 1     | 824440.00   | MPCB-DR-16788      | 23/01/2023 | RTGS             |

#### Copy to:

- 1. Regional Officer, MPCB, Kalyan and Sub-Regional Officer, MPCB, Bhivandi
- They are directed to ensure the compliance of the consent conditions.
- 2. Chief Accounts Officer, MPCB, Sion, Mumbai



#### **SCHEDULE-I**

#### Terms & conditions for compliance of Water Pollution Control:

- A] As per your application, you have proposed to provide MBBR based Sewage Treatment Plants (STPs) of combined capacity 895 CMD for treatment of domestic effluent of 890.04 CMD.
  - 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,<br>except for pH |
|-------|----------------|--|
| 1     | рН             | 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.<br>No. | Purpose for water consumed   | Water consumption<br>quantity (CMD) |
|------------|--|-------------------------------------|
| 1.         | Industrial Cooling, spraying in mine pits or boiler feed                                       | 0.00                                |
| 2.         | Domestic purpose   | 1057.13                             |
| 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 proposed to provide the Air pollution control (APC)system and also proposed to erect following stack (s) and to observe the following fuel pattern-

| Stack<br>No. | Source               | APC System<br>provided/proposed | Stack<br>Height(in<br>mtr) | Type<br>of<br>Fuel     | Sulphur<br>Content(in<br>%) | Pollutant | Standard        |
|--------------|----------------------|---------------------------------|----------------------------|------------------------|-----------------------------|-----------|-----------------|
| 1            | DG SET<br>600<br>KVA | Acoustic Enclosure              | 5.00                       | HSD<br>125.5<br>Ltr/Hr |                             | SO2       | 60.24<br>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/Nm3 |
|-------------------------|---------------|------------|
|                         |               |            |

- 3) The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacemenalteration 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).

#### 5) Conditions for utilities like Kitchen, Eating Places, Canteens:-

- a) The kitchen shall be provided with exhaust system chimney with oil catcher connected to chimney through ducting.
- b) The toilet shall be provided with exhaust system connected to chimney through ducting.
- c) The air conditioner shall be vibration proof and the noise shall not exceed 68 dB(A).
- d) The exhaust hot air from A.C. shall be attached to Chimney at least 5 mtrs. higher than the nearest tallest building through ducting and shall discharge into open air in such a way that no nuisance is caused to neighbors.

|            | SCHEDULE-III<br>Details of Bank Guarantees: |                         |            |   |   |   |  |  |  |
|------------|---|-------------------------|------------|---|---|---|--|--|--|
| Sr.<br>No. | Consent(C2E/C2<br>O/C2R)                    | Amt of<br>BG<br>Imposed | Submission | Purpose<br>of BG  | Compliance<br>Period  | Validity Date   |  |  |  |
| 1          | Consent to<br>Establish                     | Rs. 10<br>Lakh          | 15 days    | Towards<br>Compliance<br>of EC &<br>Consent<br>conditions | upto<br>commissioning of<br>the unit or five<br>years whichever<br>is earlier | upto<br>commissioning of<br>the unit or five<br>years whichever<br>is earlier |  |  |  |

\*\* 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.

| <b>BG Forfeiture</b> | History |
|----------------------|---------|
|----------------------|---------|

| S | rno. | Consent<br>(C2E/C2O/C2R) | Amount of<br>BG<br>imposed | Submission<br>Period | Purpose<br>of BG | Reason of<br>BG<br>Forfeiture |
|---|------|--------------------------|----------------------------|----------------------|------------------|-------------------------------|
|   | -    |                          |                            | NA                   |                  |                               |

#### **BG Return details**

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

#### **SCHEDULE-IV**

#### Conditions during construction phase

| A | During construction phase, applicant shall provide temporary sewage and MSW treatment and disposal facility for the staff and worker quarters.  |
|---|---|
| В | During construction phase, the ambient air and noise quality shall be maintained and should be closely monitored through MoEF approved laboratory.  |
| С | Noise should be controlled to ensure that it does not exceed the<br>prescribed standards. During night time the noise levels measured at the<br>boundary of the building shall be restricted to the permissible levels to<br>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) 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 sitting 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 obtain Consent to Operate from Maharashtra Pollution Control Board before commissioning of the project.

#### This certificate is digitally & electronically signed.

#### **ANNEXURE VI**

Form V

Maharashtra Pollution Control Board



महाराष्ट्र प्रदूषण नियंत्रण मंडळ

Application UAN number

**FORM V** (See Rule 14) Environmental Audit Report for the financial Year ending the 31st March 2024

**Unique Application Number** MPCB-ENVIRONMENT\_STATEMENT-0000064694

#### **PART A**

#### **Company Information**

**Company Name** Μ

Submitted Date 12-04-2024

| NA   | 0   | 0   | CMD           |
|--|---|---|---------------|
| Product Name   | <b>Consent Quantity</b>                         | Actual Quantity   | UOM           |
| Product Information  |   |   |               |
| Industry Category Primary (STC<br>Code) & Secondary (STC Code)   |   |   |               |
| 2028-03-23   | 2023  | Jan 1 1900 12:00:00:000                                 | AM            |
| Consent Valid Upto   | Establishment Year                              | Date of last environm<br>submitted                      | ent statement |
| yes  | Format1.0/CC/UAN<br>No.0000154659/CE/2303001626 | 2023-03-23  |               |
| Last Environmental statement<br>submitted online                 | Consent Number                                  | Consent Issue Date                                      |               |
| SRO-Bhivandi   | Orange  | O21 Building and construct<br>than 20,000 sq. m built u |               |
| Region   | Industry Category                               | Industry Type   |               |
| 9821803016   | 0   | gmonga@ecohomesindia                                    | a.com         |
| Telephone Number   | Fax Number                                      | Email   |               |
| 421308   | Mr. Gaurav Monga                                | Director  |               |
| Pincode  | Person Name                                     | Designation   |               |
| Capital Investment (In lakhs)<br>41222                           | <i>Scale</i><br>L.S.I                           | <b>City</b><br>Thane                                    |               |
| 32A, 36C, 37   | Bhiwandi  | Ranjnoli  |               |
| Plot no  | Taluka  | Village   |               |
| Survey No. 32A, 36C, 37, Ranjnoli, Tal:<br>Bhiwandi Dist: Thane. |   |   |               |
| Address  |   |   |               |
| M/s. Ecohomes Townships LLP                                      | MPCB-CONSENT-0000154659                         |   |               |

| By-product Information |                         |                 |     |
|------------------------|-------------------------|-----------------|-----|
| By Product Name        | <b>Consent Quantity</b> | Actual Quantity | UOM |
| NA                     | 0                       | 0               | CMD |

Part-B (Water & Raw Material Consumption)

| 1) Water Consumption in m3/day<br>Water Consumption for<br>Process  | <b>Consent Qua</b><br>0.00 | ntity in m3/day                       | Actual Quantity in m3                | 8/day      |
|---|----------------------------|---------------------------------------|--------------------------------------|------------|
| Cooling   | 0.00                       |                                       | 0.00                                 |            |
| -   |                            |                                       |                                      |            |
| Domestic  | 1057.13                    |                                       | 0.00                                 |            |
| All others  | 0.00                       |                                       | 0.00                                 |            |
| Total   | 1057.13                    |                                       | 0.00                                 |            |
| 2) Effluent Generation in CMD / MLD                                 |                            |                                       |                                      |            |
| <b>Particulars</b><br>Domestic effluent                             |                            | onsent Quantity<br>0.04               | Actual Quantity                      | UOM<br>CMD |
| Domestic endent   | 03                         | 0.04                                  | 0                                    | СМД        |
| 2) Product Wise Process Water Consum                                | otion (cubic meter of      |                                       |                                      |            |
| process water per unit of product)<br>Name of Products (Production) |                            | During the Previous                   | During the curren                    | t UOM      |
|   |                            | financial Year                        | Financial year                       | ••••       |
| NA  |                            | 0                                     | 0                                    | CMD        |
| 3) Raw Material Consumption (Consump                                | tion of raw material       |                                       |                                      |            |
| per unit of product)  |                            |                                       | <b>_</b> · · · ·                     |            |
| Name of Raw Materials   |                            | During the Previous<br>financial Year | During the current<br>Financial year | UOM        |
| NA  |                            | 0                                     | 0                                    | CMD        |
| 4) Fuel Consumption   |                            |                                       |                                      |            |
| Fuel Name   | Consent quantity           | Actual                                | Quantity                             | UOM        |
| HSD   | 125.5                      | 0                                     |                                      | Ltr/Hr     |
| Part-C  |                            |                                       |                                      |            |
| Pollution discharged to environment/un                              | it of output (Dovomotor    | as specified in the sense             | continued)                           |            |

| Pollutants Detail | Quantity of Pollutants<br>discharged (kL/day) | Concentration of Pollutants<br>discharged(Mg/Lit) Except<br>PH,Temp,Colour | Percentage of variation<br>from prescribed<br>standards with reasons |          |        |
|-------------------|---|--|--|----------|--------|
|                   | Quantity                                      | Concentration  | %variation   | Standard | Reason |
| рН                | 5.5   | 0  | 0  | 0        | 0      |
| BOD               | 10  | 0  | 0  | 0        | 0      |
| COD               | 50  | 0  | 0  | 0        | 0      |
| TSS               | 20  | 0  | 0  | 0        | 0      |
| NH4 N             | 5   | 0  | 0  | 0        | 0      |
| N-total           | 10  | 0  | 0  | 0        | 0      |
| Fecal Coliform    | 100   | 0  | 0  | 0        | 0      |
|                   |   |  |  |          |        |

| [ <b>B] Air (Stack)</b><br>Pollutants Detail | Quantity of<br>Pollutants<br>discharged (kL/day) | Concentration of Pollutants<br>discharged(Mg/NM3) | Percentage of variation<br>from prescribed<br>standards with reasons |            |        |
|--|--|---|--|------------|--------|
|  | Quantity   | Concentration                                     | %variation   | Standard R | Reason |
| 502  | 0  | 0   | 0  | 60.24 0    | ſ      |

| Ρ | a | rt- | D |
|---|---|-----|---|
|   | 0 |     | _ |

| HAZARDOUS WASTES  |                     |  |                         |  |                   |
|---|---------------------|--|-------------------------|--|-------------------|
| 1) From Process   |                     |  |                         |  |                   |
| Hazardous Waste TypeTot00   | al During Previ:    | ious Financial year                                  | <b>Total Durin</b><br>0 | ng Current Financial year              | <b>ИОМ</b><br>СМD |
|   |                     |  |                         |  |                   |
| 2) From Pollution Control Fa<br>Hazardous Waste Type  |                     | Previous Financial year                              | Total Dur               | ing Current Financial year             | иом               |
| 0   | 0                   |  | 0                       |  | CMD               |
| Part-E  |                     |  |                         |  |                   |
| SOLID WASTES  |                     |  |                         |  |                   |
| 1) From Process<br>Non Hazardous Waste Type   | Total During        | Previous Financial vear                              | Το                      | tal During Current Financial year      | · UOM             |
| Dry Waste   | 1212                | ······································               | 0                       |  | Kg                |
| Dry Waste   | 1212                |  | 0                       |  | Kg                |
| Wet waste   | 1809                |  | 0                       |  | Kg                |
| Wet waste   | 1809                |  | 0                       |  | Kg                |
| STP Sludge  | 123.25              |  | 0                       |  | Kg                |
| STP Sludge  | 123.25              |  | 0                       |  | Kg                |
| 2) From Pollution Control Fa  | acilities           |  |                         |  |                   |
| Non Hazardous Waste Type  | <b>Total I</b><br>0 | During Previous Financial                            | <b>year Tota</b><br>0   | During Current Financial year          | <b>ИОМ</b><br>СМD |
| 3) Quantity Recycled or Re-   | utilized within     | the  |                         |  |                   |
| Waste Type  |                     | Total During Prev<br>year                            | vious Financial         | Total During Current Financial<br>year |                   |
| 0   |                     | 0  |                         | 0                                      | CMD               |
| Part-F  |                     |  |                         |  |                   |
|   |                     | of concentration and qua<br>these categories of wast |                         | rdous as well as solid wastes and      | d                 |
| indicate anopeous practice a  |                     |  |                         |  |                   |
| 1) Hazardous Waste  |                     |  |                         | Concentration of Hazardous Was         | sta               |
| 1) Hazardous Waste<br>Type of Hazardous Waste G   | enerated            | <b>Qty of Hazardous Was</b>                          |                         |  | sie               |
| 1) Hazardous Waste  | enerated            | <b>Qty of Hazardous Was</b><br>0                     | te UOM<br>CMD           | 0                                      |                   |
| <ol> <li>Hazardous Waste</li> <li>Type of Hazardous Waste G</li> <li>O</li> <li>Solid Waste</li> </ol>                                      |                     | 0  | CMD                     | 0                                      |                   |
| <ol> <li>Hazardous Waste</li> <li>Type of Hazardous Waste G</li> <li>O</li> <li>Solid Waste</li> <li>Type of Solid Waste General</li> </ol> |                     | 0<br><b>Qty of Solid Waste</b>                       | CMD<br><b>UOM</b>       | 0<br>Concentration of Solid Waste      |                   |
| <ol> <li>Hazardous Waste</li> <li>Type of Hazardous Waste G</li> <li>O</li> <li>Solid Waste</li> </ol>                                      |                     | 0  | CMD                     | 0                                      |                   |

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

| Description | Reduction in<br>Water<br>Consumption<br>(M3/day) | Reduction in Fuel<br>& Solvent<br>Consumption<br>(KL/day) | Reduction in<br>Raw Material<br>(Kg) |   | Capital<br>Investment(in<br>Lacs) | Reduction in<br>Maintenance(in<br>Lacs) |
|-------------|--|---|--------------------------------------|---|-----------------------------------|---|
| NA          | 0  | 0   | 0                                    | 0 | 0                                 | 0                                       |

#### Part-H

| [A] Investment made during the period of Environ | nmental                              |                                  |
|--|--------------------------------------|----------------------------------|
| Statement  |                                      |                                  |
| Detail of measures for Environmental Protection  | Environmental Protection<br>Measures | on Capital Investment<br>(Lacks) |
| NA   | NA                                   | 0                                |
| [B] Investment Proposed for next Year            |                                      |                                  |
| Detail of measures for Environmental Protection  | Environmental Protection Measures    | Capital Investment (Lacks)       |
| 0  | 0                                    | 0                                |

Any other particulars for improving the quality of the environment.

#### Particulars

we awarded with consent to establish.

#### Name & Designation

Mr. Gaurav Monga\_Director

#### UAN No:

MPCB-ENVIRONMENT\_STATEMENT-0000064694

#### Submitted On:

12-04-2024

#### **ANNEXURE VII**

**ENVIRONMENTAL STATUS REPORT** 

# **Environmental Status Report**

As per EC Condition

## For

# "Miracle" Residential Cum Commercial Project

by

# **M/s Echomes Townships LLP.**

at

Survey No. 32 A, 36C, 37 at Village Ranjnoli, Taluka Bhiwandi, Dist. Thane



Prepared by CONSULTANTS

#### Mahabal Enviro Engineers Pvt. Ltd.

Plot F-7, Road 21, MIDC Wagle Estate, Thane-400604 Phone: +91-22-25823139/1663/0658 <u>thane@mahabal.com</u>

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## **Environmental Status Report**

#### Introduction

**M/s Ecohomes Townships LLP.** is proposing Residential Cum Commercial Project "Miracle "at Survey No.32A,36C, 37 at Village Ranjnoli, Taluka Bhiwandi, Dist. Thane.

Environment Clearance letter was obtained vide file no. SIA/MH/MIS/244299/2021 Dated 10.06.2022 for total plot area 41,356.08  $m^2$  and total construction area 1,14,271.65  $m^2$ .

## Project proponent information

| Name      | M/s Echomes Townships LLP.<br>Mr. Gaurav Monga   |
|-----------|--|
| Address   | M/s Echomes Townships LLP.<br>Survey No. 32A, 36C, 37, Ranjnoli, Tal: Bhiwandi Dist: Thane |
| Telephone | 9821803016   |
| Mobile    | 9962826106   |
| Email ID  | gmonga@echomesindia.com  |

#### Plot area and Construction area details

| Details                 | Total       | Unit           |
|-------------------------|-------------|----------------|
| Total Plot area         | 41,356.08   | m <sup>2</sup> |
| Proposed FSI Area       | 93,864.26   | m <sup>2</sup> |
| Proposed Non-FSI area   | 20,407.39   | m <sup>2</sup> |
| Total Construction area | 1,14,271.65 | m <sup>2</sup> |

#### **Present status**

PP have started the construction in 2022 as per the EC file No – SIA/MH/MIS/244299/2021 Dated: - 10/06/2022

Construction details are given below,

## **Constructed Building configuration details**

| Sr. | <b>Building Name</b> | Building Configuration   | Construction status   |
|-----|----------------------|--|---|
| 1.  | Tower A              | $ \begin{array}{r} {\rm Gr} + 1^{\rm st} \mbox{ to } 8^{\rm th} \mbox{ floor} + 9^{\rm th} \mbox{ refuge} \\ {\rm Floor} + 10^{\rm th} \mbox{ to } 14^{\rm th} \mbox{ Floor} \end{array} $ | -   |
| 2.  | Tower B              | Gr + 1 <sup>st</sup> Floor to 8 <sup>th</sup> floor + 9 <sup>th</sup><br>refuge Floor + 10 <sup>th</sup> to 14 <sup>th</sup> Floor   | Plinth Works are in<br>progress                                     |
| 3.  | Tower C              | Gr + 1 <sup>st</sup> Floor to 8 <sup>th</sup> floor + 9 <sup>th</sup><br>refuge Floor + 10 <sup>th</sup> to 14 <sup>th</sup> Floor   | Level 08 slab works are in<br>progress                              |
| 4.  | Tower D              | Gr + 1 <sup>st</sup> Floor to 8 <sup>th</sup> floor + 9 <sup>th</sup><br>refuge Floor + 10 <sup>th</sup> to 14 <sup>th</sup> Floor   | Level 08 slab works are in<br>progress                              |
| 5.  | Tower E              | Gr + 1 <sup>st</sup> Floor to 8 <sup>th</sup> floor + 9 <sup>th</sup><br>refuge Floor + 10 <sup>th</sup> to 14 <sup>th</sup> Floor   | Foundation Works are in<br>progress                                 |
| 6.  | Tower F              | Gr + 1 <sup>st</sup> Floor to 8 <sup>th</sup> floor + 9 <sup>th</sup><br>refuge Floor + 10 <sup>th</sup> to 14 <sup>th</sup> Floor   | Foundation Works are in<br>progress                                 |
| 7.  | Tower G              | Gr + 1 <sup>st</sup> Floor to 8 <sup>th</sup> floor + 9 <sup>th</sup><br>refuge Floor + 10 <sup>th</sup> to 14 <sup>th</sup> Floor   | Plinth Works are in<br>progress                                     |
| 8.  | Tower H              | Gr + 1 <sup>st</sup> Floor to 8 <sup>th</sup> floor + 9 <sup>th</sup><br>refuge Floor + 10 <sup>th</sup> to 14 <sup>th</sup> Floor   | Plinth Works are in<br>progress                                     |
| 9.  | MLCP                 | Gr + 1 <sup>st</sup> to 3 <sup>rd</sup> floor  | Substructure along with<br>UGT and STP RCC Works<br>are in progress |
| 10  | Club House           | Gr + 1 <sup>st</sup> Floor   | -   |
| 11  | Town House           | Gr + 1 <sup>st</sup> Floor   | -   |

# **Construction activity**

## **Table 1: Environmental Services progress status**

| Sr. | Details                                   | Status   |
|-----|---|--|
| 1.  | DG set                                    | Will be Provided   |
| 2.  | Landscape area                            | 4591.16 m <sup>2</sup> area is proposed for landscape development. |
| 3.  | Tree plantation                           | 00 No's trees are planted on site.                                 |
| 4.  | STP work                                  | Will be provided.  |
| 5.  | Solid waste<br>management: OWC<br>details | Will be provided.  |
| 6.  | Parking                                   | PP have provided parking as per DCR requirement.                   |

|     | IIIdi Sidius                                  | Miracle Residential cum Commercial Project at Village Ranjnoi   |
|-----|---|---|
| 7.  | Excavation details                            | Excavated material utilized within the premises for plot leveling, landscaping, and decoration purposes     |
| 8.  | Debris details and its management             | The excavated material having is used for backfilling and decoration purposes.                              |
| 9.  | Groundwater recharge:<br>Rainwater harvesting | RWH Tank – RCC work in progress.  |
| 10. | Stormwater harvesting                         | stormwater harvesting network will be provided  |
| 11. | RMC plant and brick details                   | RMC is being brought from outside from the supplier. We are not using bricks only AAC blocks are being used |
| 12. | Contact person on site                        | Mr. Birju Bandiwadekar - 9096039658   |

## **Construction facility on site**

PP have provided following facilities at site:

- Material storage area
- DG set during construction phase
- Personal Protective equipment's for workers
- Safety Nets for buildings
- RMC procured from outside
- Steel yard
- Waste material storage area

## Facility provided on site for Labour

Labour camp has been provided for the labours with the all-basic necessities like sanitary facilities, drinking water facility, and health check up for workers. First aid room with well-equipped first aid box is provided to the workers.

## Land Excavation details

There is absence of top soil and presence of Backfill materials and boulders till 1 m and rocks below and the Project will use the soil for backfill, and hence top layer of soil is unsuitable for landscaping in the Project.

To minimize disruption of soil and for the conservation of topsoil. Topsoil is utilized for land levelling activity and decoration purposes. Generated debris is used within the site.

## Water details

#### **Construction phase**

PP has provided the drinking water facility for Labour workers.

#### **Operational phase**

Source of water supply to the project site is STEM water distribution Scheme. PP is conducting regular water monitoring through MoEF and NABL accredited Lab. Reports submitted along with Compliance Report.

#### Sewage Treatment Plant details

#### **Construction phase**

PP had Provided Labour Camp with Toilets and Septic tanks. For workers working onsite for sanitation Purpose.

#### **Operational phase**

The total water requirement of the project is 1057.13 m<sup>3</sup> per day, while fresh water requirement will be 68.288 m<sup>3</sup>. Total sewage generation will be 890.03 m<sup>3</sup>/day. PP will provide 1 no of STP's having total capacity 895 m<sup>3</sup>/day for the treatment of wastewater generated from project site. The treated water from STP is used for flushing and gardening purpose.

#### Storm Water Drain

PP will provide a proper stormwater drainage system within the project area.

#### **Rain Water Harvesting**

PP will provide rainwater harvesting RWH tank if 260 cum

For rainwater collected from ground surface following actions are usually taken:

- Cleaning of surface of vegetation, organic and loose materials.
- Smoothening the surface by mechanical compaction or surface binding treatment.
- Checking that the surface is free from all such chemical and organic material, which may cause chemical/bacterial contamination of harvested water.

## Solid Waste Disposal

## **Construction phase**

Waste generated in worker camps is municipal solid waste which is segregated.

onsite, and treated by local municipal authorities.

#### **Operational phase**

PP will provide an Organic waste converter facility at project site. The waste from project site is being collected and segregated into wet and dry waste. Wet waste will be treated in OWC unit and converted into manure. Manure from OWC facility will be used for landscaping purpose. The recyclable waste will be sold to authorized recycler. Whereas domestic organic waste, STP sludge & Horticulture waste shall be composted and used as manure within the premises.

#### Power Supply and consumption

#### **Construction phase**

PP have received the power supply connection from Torrent Power.

#### **Operational phase**

PP will provide connected load of 5594.10 kW. PP will provide DG set of capacity 1 x 600 kW is provided at site.

PP have provided DG set for backup Environmental infrastructures such as STP, OWC etc. and common lighting, Lifts, Fire pump etc.

#### **Roads, Traffic and Transport details**

#### **Construction phase**

PP had provided roads with proper connectivity and access during construction phase. All incoming and outgoing vehicles during construction phase are having direct access from the main road to project site, so there is no disturbance to existing traffic movement.

## **Operational phase**

PP will propose proper connectivity to main road. To Mitigate the Impact of Pollutants from vehicular traffic during operational phase of the site, the Following measures are recommended for existing traffic Movement.

#### Vehicle emission controls

Adequate informatory signage's/Speed control devices are installed within premises near entry/exit gates to regulate and control the speed of outgoing/incoming traffic. Regular maintenance of the vehicles is mandatory for all the vehicles being parked in the building premises. Security persons at entry and exit point to insure the smooth traffic movement.

#### Housing and Slums provision

- Its is Residential and Commercial Project.
- Slum provision is not applicable to this project.

## Air Environment

Presence of online AQI monitoring system on site which provides real-time AQI, PM 10 & PM 2.5 levels

## Dust

Anti-smog gun is being used for dust suppression

Periodic maintenance of construction equipment and use the good quality of fuels and use of personal protective equipment.

#### Noise Environment

We have Monitoring the Noise level monitoring through MoEF and NABL accredited Lab every month and six-monthly report have sent to MoEF, Nagpur and RO & HQ of MPCB offices with the EC compliance condition.

No construction work is being done during night time.

Construction equipment will be well maintained to reduce the noise pollution as per the standard limits.

We have provided the earplugs, muffs to the construction staff.

#### Industries, Wastes and Hazards

It is a residential & Commercial project. This issue is not applicable.

## Health facility

PP have provided first aid room for workers within project area. Workers are provided with facility health check-up through annual camps.

During operation phase PP have provided first aid facility. The project site is having all necessary facilities within 5 km radius.

#### **Other Facility**

The project site is having all necessary facility such as market, banks, and hospitals within 5 km radius.

#### **Biological Environment**

#### **Plantation & Landscaping**

Selection of the plant species has been done based on their adaptability to the existing geographical conditions and the vegetation composition of the region. During the development of the green belt within the project area, emphasis has been given to a selection of plant species like nitrogen-fixing species, species of ornamental values, species of very fast growth with good canopy cover, etc.

#### Landscape development plan

In the proposed project, the area allotted for landscaping is **4591.16 m<sup>2</sup>**. There are total 230 no's of trees proposed to be planted on-site. The trees are planted along the compound wall and along the road with adequate space between them so that their growth is not hampered. Plantation has to be taken up randomly and landscaping aspects could be taken into consideration.

## **Environment Monitoring Cell**

Environmental management cell is being formed headed by an Environment Manager supported by adequate number of personnel having sufficient educational and professional qualification and experience to discharge number of personnel having sufficient educational and professional gualification and experience to discharge responsibilities related to environmental management including statutory compliance, pollution prevention, environmental monitoring, preventive maintenance of pollution control equipment and green belt development & maintenance. The head of the cell is directly report to the top management. This cell is the nodal agency to co-ordinate and provide necessary services on environmental issues during construction and operation of the project. This department will interact with MPCB, MoEF, CPCB and Other environment regulatory agencies. The cell will be effective till handing over of the project to society.

#### **Environmental Management Audits:**

The management audits are to determine whether the activities are conforming to the environmental management systems and effective in implanting the environmental policy. They may be internal or external, but carried out impartially and effectively by a person properly trained for it. Broad knowledge of the environmental process and expertise in relevant disciplines is also required. Appropriate audit programs and protocols will be established.

| Sr. | Level       | Designation  | Purpose             |
|-----|-------------|--|---------------------|
| 1   | Honorary    | Director / Managing Committee  | Policy              |
| 2   | Manager     | Environmental Scientist /Chemist   | Job (*)             |
| 3   | Executive   | Supervisor, contractor, Engineers  | Implement           |
| 4   | Third Party | Environmental sampling, analysis will be done<br>through external agency <b>approved by</b> MoEFCC /<br>MPCB | Monitoring, testing |

#### Table 2: Organization & Environment Management Cell

#### **ANNEXURE VIII**

**ENVIRONMENT MONITORING REPORT** 



11/25/01

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-0460231007           |                           | Date: 13.10.2023 |
|---------------------------------|------------|-------------------------|---------------------------|------------------|
| DEP2                            | ULR No.:   | TC748723000016114F      |                           | 1001             |
| Name and<br>Address of Customer | "MIRACLE   | anjnoli, Tal: Bhiwandi, | WO No.: Ve<br>WO Date: 05 | rbal<br>10.2023  |

|                              | Dist: Thane      |                                   |  |
|------------------------------|------------------|-----------------------------------|--|
| Sample<br>Description / Type | Ambient Air      | Sampling Done by                  | Laboratory   |
| Sampling Location            | Near Main Gate   | Sample<br>Quantity / Packing      | PM10 Filter Paper 1 X 1 No.<br>PM21 Filter Paper 1 X 1 No.<br>SO2:30 mL X 2 No. PVC Bottle<br>NO2:30 mL X 2 No. PVC Bottle |
| Date of Sampling             | 06.10.2023       | Date of Receipt of Sample         | 07.10.2023   |
| Sampling Procedure           | As per method re | erence                            |  |
| Date of Start of<br>Analysis | 07 10 2023       | Date of Completion of<br>Analysis | 12.10.2023   |
|                              |                  |                                   |  |

| Sr.<br>No. | Parameter   | Unit              | Result | INAAQS | Method Reference  |
|------------|---|-------------------|--------|--------|---|
|            | Discipline: Chemical<br>Testing: Product Group:<br>Atmospheric Pollution<br>(Ambient Air) |                   |        |        |   |
| 1          | Sulphur Dioxide (SO <sub>2</sub> )  | µg/m <sup>3</sup> | 8.0    | 80     | CPCB Guidelines for the Measurement of Ambient<br>Air Pollutants, Volume I, 2012-13, Page No.1-6    |
| 2          | Nitrogen Dioxide (NO <sub>2</sub> )   | µg/m²             | 11.9   | 80     | CPCB Guidelines for the Measurement of Ambient<br>Air Pollutants, Volume I, 2012-13, Page No.7-10   |
| 3          | Particulate Matter (size less than 10µm) or PM <sub>10</sub>                              | µg/m <sup>3</sup> | 56     | 100    | CPCB Guidelines for the Measurement of Ambient<br>Air Pollutants, Volume I, 2012-13, Page No.11-14  |
| 4          | Particulate Matter (size less than 2.5 $\mu m$ ) or PM2.5                                 | µg/m³             | 15     | 60     | CPCB Guidelines for the Measurement of Ambient<br>Air Pollutants, Volume I, 2012-13, Page No. 15-30 |

#### END OF REPORT

Note: 1. BQL. Below Quantification Limit.

- 2 LOQ: Limit of Quantification
- 3. Duration of Sampling: 08h.
- 4. TWA: Time Weighted Average
- 5. NAAQS: National Ambient Air Quality Standard
- 6. #- NAAQS specified as: 8 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM10, PM25.
- The result listed refers only to the tested sample(s) and applicable parameter(s).
- 8. This report is not to be reproduced except in full, without the written approval of the laboratory.
- 9. Any complaint pertaining to the report can be addressed to mahabalreports@gmail.com

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Harish Mendhi Technical Manager Chemical Testing





12-1441



Date of Sampling

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

| 404-1                           | Report No. | ME-0464231007           | Date: 12.10.2023 |  |
|---------------------------------|------------|-------------------------|------------------|--|
| ожн                             | ULR No ;   | TC748723000016118F      | 194              |  |
| Name and<br>Address of Customer | "MIRACLE   | anjnoli, Tal: Bhiwandi, | WO Date: 05.10.2 |  |
| Sample<br>Description / Type    | Ambient No | lise                    |                  |  |

Sampling Procedure CPCB Protocol for Ambient level Noise Monitoring 2015

06.10.2023

| Sr.<br>No. | Location  | Time<br>in h<br>(day) | Sound Level<br>Leg dB (A)<br>Fast<br>Response | Sound Level<br>Leg dB (A)<br>Slow<br>Response | Time<br>in h<br>(Night) | Sound Level<br>Leg dB (A)<br>Fast<br>Response | Sound Level<br>Leg dB (A)<br>Slow<br>Response |
|------------|---|-----------------------|---|---|-------------------------|---|---|
|            | Discipline:<br>Chemical Testing:<br>Product Group:<br>Atmospheric<br>Pollution<br>(Ambient Noise) |                       |   |   |                         |   |   |
| 1.         | Project West Side   | 12:10                 | 67.3  | 65.4  | 8                       |   | -   |
| 2.         | Near Main Gate  | 12:00                 | 69.2  | 66.3  |                         |   |   |

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

#### END OF REPORT

Note: 1. The result listed refers only to the tested sample(s) and applicable parameter(s).

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Page 1 of 1 QF/SALE/05A Issue No 03 Date 05 12 2019 Amd 03 Date 18.07 2023

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Harish Mendhi Technical Manager Chemical Testing









Mahabal Enviro Engineers Pvt. Ltd.

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# TEST REPORT

| 22023                              | Report No.:                  | ME-0    | 461231007                                     |  | Date: 13 10 2023   |  |  |
|------------------------------------|------------------------------|---------|---|--|--|--|--|
|                                    | ULR No.:                     | TC74    | 8723000016115F                                |  | The start of the s |  |  |
| Name and<br>Address of<br>Customer |                              | Villag  | DENTIAL PROJECT<br>le: Ranjnoli,<br>st: Thane | WO No. Verba<br>WO Date: 05 10                     |  |  |  |
| Sample<br>Description / Type       | Stack Emiss                  | ion     | Sampling Done by Laboratory                   |  | Y  |  |  |
| Sampling Location                  | D.G. Set 160<br>Near Sales 0 |         | Sample<br>Quantity / Packing                  | Thimble PM: 1 X 1 No.<br>SO2 30mL X 1No.PVC Bottle |  |  |  |
| Date of Sampling                   | 06.10.2023                   |         | Date of Receipt of Sample                     | 07.10.2023   |  |  |  |
| Sampling<br>Procedure              | As per metho                 | od refe | rence   |  |  |  |  |
| Date of<br>Start of Analysis       | 07.10.2023                   |         | Date of Completion of<br>Analysis             | 10.10.2023   |  |  |  |

| Stack Details                           |                  |
|---|------------------|
| Stack Identity                          | Stack -1         |
| Stack attached to                       | D.G. Set 160 kVA |
| Material of construction                | M.S.             |
| Stack height above ground level (Meter) | 3                |
| Stack diameter (Meter)                  | 0.10             |
| Stack shape at top                      | Round            |
| Type of fuel                            | Diesel           |
| Fuel Consumption (L/h)                  | 3                |

| Sr.<br>No. | Parameter   | Unit               | Result      | Method Reference        |
|------------|---|--------------------|-------------|-------------------------|
|            | Discipline: Chemical Testing:<br>Product Group: Atmospheric<br>Pollution (Stack Emission) |                    |             |                         |
| 1          | Flue gas Temperature  | °C                 | 133         | IS 11255 (Part 3):2008  |
| 2          | Flue gas Velocity   | m/s                | 9.5         | IS 11255 (Part 3):2008  |
| 3          | Flue Gas Flow Rate  | Nm <sup>3</sup> /h | 196         | IS 11255 (Part 3):2008  |
| 4          | Particulate Matter (PM)   | mg/Nm <sup>a</sup> | 28          | IS 11255 (Part 1): 1985 |
| 5          | Sulphur Dioxide (SO <sub>2</sub> )  | mg/Nm <sup>3</sup> | BQL(LOQ:10) | IS 11255 (Part 2):1985  |

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Harish Mendhi Technical Manager Chemical Testing







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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-0461231007
 Date: 13.10.2023

 ULR No.:
 TC748723000016115F

Note: 1. BQL: Below Quantification Limit

- 2. LOQ: Limit of Quantification
- The result listed refers only to the tested sample(s) and applicable parameter(s).
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# TEST REPORT

| m S S M   |                     |   |  |                  |  |
|---|---------------------|---|--|------------------|--|
| 22.57   | Report No.:         | ME-0463231007                               |  | Date: 16.10.2023 |  |
|   | ULR No.             | TC748723000016117F                          |  | 1800             |  |
| Name and<br>Address of Customer                     | "MIRACLE"           | RESIDENTIAL PROJECT<br>noli, Tal: Bhiwandi, | WO No.: Verbal<br>WO Date: 01.09.2023                        |                  |  |
| Sample<br>Description / Type                        |                     |   | Laboratory   | Laboratory       |  |
| Sampling Location                                   | Near Labour<br>Camp | Sample<br>Quantity / Pecking                | 2L X 1 No. PVC<br>500 mL X 1 No.<br>250 mL X 1 No.<br>Bottle |                  |  |
| Date of Sampling 06.10.2023 Date of Receipt of Samp |                     | Date of Receipt of Sample                   | 07.10.2023   |                  |  |
| Sampling Procedure                                  | IS:3025 (Part I     | ); IS 1622; APHA 24* Ed. 2023               | 3, 1060-B, 9060 A  | 0.               |  |
| Date of Start of<br>Analysis                        | 07 10 2023          | Date of Completion of<br>Analysis           | 15.10.2023   |                  |  |
|   |                     | A CONTRACTOR CONTRACTOR CONTRACTOR          |  |                  |  |

| Sr.<br>No. | Parameter  | Unit  | Result            | #Limit     | \$Limit       | Method Reference                            |
|------------|--|-------|-------------------|------------|---------------|---|
|            | Discipline: Chemical<br>Testing: Product<br>Group: Water (Drinking<br>Water) |       |                   |            |               |   |
| 1.         | Colour   | Hazen | BQL<br>(LOQ 1)    | 5 Max.     | 15 Max        | APHA 24th Ed. 2023, 2120-B                  |
| 2.         | Odour  | -     | Agreeable         | Agreeable  | Agreeable     | IS 3025 (Part 05):1984                      |
| 3          | Turbidity  | NTU   | 0.2               | 1 Max      | 5 Max         | APHA 24th Ed. 2023, 2130-B                  |
| 4          | pН   | - 14  | 6.9               | 6.5 to 8.5 | No Relaxation | APHA 24th Ed. 2023, 4500-H*-B               |
| 5.         | Free Chlorine (Residual)   | mg/L  | BQL<br>(LOQ.0.05) | 0.2 Min.   | 1.0 Min.      | APHA 24th Ed. 2023, 4500-CI G               |
| 6.         | Total Suspended Solids   | mg/L  | BQL<br>(LOQ:5)    | 05         | <b>3</b> 0    | APHA 24th Ed. 2023, 2540-D                  |
| 7.         | Total Dissolved Solids   | mg/L  | 70                | 500 Max.   | 2000 Max.     | IS 3025 (Part 16):2023                      |
| 8.         | Alkalinity Total (as CaCO <sub>2</sub> )                                     | mg/L  | 42                | 200 Max.   | 600 Max       | APHA 24th Ed. 2023, 2320-B                  |
| 9.         | Total Hardness (as<br>CaCO <sub>3</sub> )                                    | mg/L  | 54                | 200 Max.   | 600 Max.      | APHA 24th Ed. 2023, 2340-C                  |
| 10.        | Chloride (as CI)   | mg/L  | 9.0               | 250 Max.   | 1000 Max.     | APHA 24th Ed. 2023, 4500-CI-8               |
| 11.        | Sulphate (as SO4)  | mg/L  | 6.5               | 200 Max.   | 400 Max       | APHA 24th Ed. 2023, 4500- SO4-E             |
| 12.        | Nitrate (as NO <sub>3</sub> )  | mg/L  | BQL<br>(LOQ 1)    | 45 Max     | No Relaxation | APHA 24th Ed. 2023, 4500-NO <sub>3</sub> -B |

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Reviewed and authorised by

Technical Manager

Chemical Testing

Harish Mendhi

Xhe-Shital Lakhorkar Group In-charge **Biological Testing** 

Reviewed and authorised by







Mahabal Enviro Engineers Pvt. Ltd.

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

## TEST REPORT

| 74         | Report   |          | ME-046323                 | Date: 16.10.2023  |               |             |                     |
|------------|--|----------|---------------------------|---|---------------|-------------|---------------------|
|            | ing and the second seco | JLR No.: | R No.: TC748723000016117F |   |               |             |                     |
| Sr.<br>No. | Parameter  | Unit     | Result                    | #Limit  | SLimit        | Method Re   | ference             |
| 13.        | Calcium (as Ca)  | mg/L     | 13.6                      | 75 Max  | 200 Max.      | APHA 24th   | Ed. 2023, 3500-Ca-B |
| 14:        | Magnesium (as Mg)  | mg/L     | 4.9                       | 30 Max  | 100 Max.      | APHA 24th   | Ed. 2023, 3500-Mg-B |
| 15.        | Fluoride (as F)  | mg/L     | 0.18                      | 1 Max.  | 1.5 Max.      | APHA 24th   | Ed. 2023, 4500-F, D |
|            | Product Group:<br>Residues in water  |          |                           |   |               |             |                     |
| 16.        | Iron (as Fe)   | mg/L     | 0.098                     | 1.0 Max.  | No Relaxation | IS.3025 (Pa | st 2), 2019         |
|            | Discipline: Biologica<br>Testing; Product<br>Group: Water (Drinks<br>water)  | Dec l    |                           |   |               |             |                     |
| 17.        | Total Coliforms  | /100mL   | Absent                    | Shall not be<br>detectable in<br>any 100 mL,<br>Sample. | .4            | IS 15185-20 | 016                 |
| 18.        | Escherichia coli   | /100mL   | Absent                    | Shall not be<br>detectable in<br>any 100 mL<br>Sample   | 3.            | IS 15185-2  | 016                 |

#### END OF REPORT

Note: 1. BQL: Below Quantification Limit.

- 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
- 5. The result listed refers only to the tested sample(s) and applicable parameter(s).
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Page 2 of 2 QF/SALE/02 Issue No 03 Date 05.12.2019. Amd 03 Date 18.07.2023 Reviewed and authorised by

Harish Mendhi Technical Manager Chemical Testing Reviewed and authorised by



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## TEST REPORT

|                                   | Report No.:                        | Report No.: ME-0462231007  |   | Date: 16.10.2023 |
|-----------------------------------|------------------------------------|--|---|------------------|
|                                   | ULR No.:                           | TC748723000016116F   |   | 1                |
| Name and<br>Address of Customer   | "MIRACLE"                          | ESIDENTIAL PROJECT   | WO No.: Ver<br>WO Date: 05.                               |                  |
| Sample<br>Description / Type      | Drinking water                     | Sampling Done by   | Laboratory  |                  |
| Sampling Location                 | Near Office Are<br>(Bisleri Water) | a Sample<br>Quantity / Packing   | 2L X 1 No. PV<br>500 mL X 1 No<br>250 mL X 1 No<br>Bottle |                  |
| Date of Sampling                  | 06.10.2023                         | Date of Receipt of<br>Sample   | 07.10.2023  |                  |
| Sampling Procedure                | IS:3025 (Part I)                   | ; IS 1622; APHA 24ª Ed. 202  | 3, 1060-B, 9060   | A                |
| Date of Start of<br>Analysis      | 07.10.2023                         | Date of Completion of<br>Analysis  | 15.10.2023  |                  |
| npling Procedure<br>e of Start of | IS:3025 (Part I)                   | Sample<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Sample:<br>Samp | 3, 1060-B, 9060 /   | A                |

| Sr.<br>No. | Parameter  | Unit  | Result            | #Limit     | \$Limit       | Method Reference                |
|------------|--|-------|-------------------|------------|---------------|---------------------------------|
|            | Discipline: Chemical<br>Testing; Product<br>Group: Water (Drinking<br>Water) |       |                   |            |               |                                 |
| 1.         | Colour   | Hazen | BQL<br>(LOQ:1)    | 5 Max.     | 15 Max.       | APHA 24th Ed. 2023, 2120-8      |
| 2.         | Odour  | -     | Agreeable         | Agreeable  | Agreeable     | IS 3025 (Part 05):2018          |
| 3.         | Turbidity  | NTU   | 0.2               | 1 Max.     | 5 Max.        | APHA 24th Ed. 2023, 2130-8      |
| 4.         | pН   |       | 6.8               | 6.5 to 8.5 | No Relaxation | APHA 24th Ed. 2023, 4500-H+-B   |
| 5.         | Free Chlorine (Residual)   | mg/L  | BQL<br>(LOQ:0.05) | 0.2 Min.   | 1.0 Min.      | APHA 24th Ed. 2023, 4500-CI G   |
| 6.         | Total Suspended Solids   | ·mg/L | BQL<br>(LOQ:5)    |            | 8453          | APHA 24th Ed. 2023, 2540-D      |
| 7.         | Total Dissolved Solids   | mg/L  | 18                | 500 Max.   | 2000 Max.     | IS 3025 (Part 16):2023          |
| 8.         | Alkalinity Total (as<br>CaCO <sub>3</sub> )                                  | mg/L  | 14                | 200 Max.   | 600 Max.      | APHA 24th Ed. 2023, 2320-B      |
| 9.         | Total Hardness (as CaCO <sub>3</sub> )                                       | mg/L  | 16                | 200 Max.   | 600 Max.      | APHA 24th Ed. 2023, 2340-C      |
| 10.        | Chloride (as Cl)   | mg/L  | 1.5               | 250 Max.   | 1000 Max.     | APHA 24th Ed. 2023, 4500-CI-B   |
| 11.        | Sulphate (as SO4)  | mg/L  | BQL<br>(LOQ:1)    | 200 Max.   | 400 Max.      | APHA 24th Ed. 2023, 4500- SO4-E |

Page 1 of 2 QF/SALE/02 Issue No 03 Date 05.12.2019. Amd 03 Date 18.07.2023

Reviewed and authorised by

Reviewed and authorised by

Harish Mendhi Technical Manager Chemical Testing

Shital Lakhorkar Group In-charge **Biological Testing** 





10-7407

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# TEST REPORT

|            |   | eport No.: | ME-046223      |  | Date: 16.10.2023 |                               |                                |  |
|------------|---|------------|----------------|--|------------------|-------------------------------|--------------------------------|--|
|            |   | LR No.:    | TC7487230      |  | 66               |                               |                                |  |
| Sr.<br>No. | Parameter   | Unit       | Result         | ØLimit   | \$Limit          | Method Re                     | ference                        |  |
| 12.        | Nitrate (as NO <sub>3</sub> )   | mg/L       | BQL<br>(LOQ:1) | 45 Max.  | No Relaxation    | APHA 24th                     | APHA 24th Ed. 2023, 4500-NO3-B |  |
| 13.        | Calcium (as Ca)   | mg/L       | 4.0            | 75 Max.  | 200 Max.         | APHA 24th                     | Ed. 2023, 3500-Ca-8            |  |
| 14.        | Magnesium (as Mg)   | mg/L       | 1.5            | 30 Max.  | 100 Max.         | APHA 24th                     | Ed. 2023, 3500-Mg-B            |  |
| 15.        | Fluoride (as F)   | mg/L       | 0.16           | 1 Max.   | 1.5 Max.         | APHA 24th Ed. 2023, 4500-F, D |                                |  |
|            | Product Group:<br>Residues in water   |            |                |  |                  |                               |                                |  |
| 16.        | Iron (as Fe)  | mg/L       | 0.046          | 1.0 Max.   | No Relaxation    | IS:3025 (Part 2), 2019        |                                |  |
|            | Discipline: Biological<br>Testing: Product<br>Group: Water (Drinkin<br>water) |            |                |  |                  |                               |                                |  |
| 17.        | Total Coliforms   | /100mL     | Absent         | Shall not be<br>detectable in<br>any 100 mL<br>Sample. | *                | IS 15185:20                   | 116                            |  |
| 18.        | Escherichia coli  | /100mL     | Absent         | Shall not be<br>detectable in<br>any 100 mL<br>Sample. | \$2<br>          | IS 15185:20                   | 116                            |  |

#### END OF REPORT

Note: 1. BQL: Below Quantification Limit.

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Page 2 of 2 QF/SALE/02 Issue No 03 Date 05.12.2019. Amd 03 Date 18.07.2023

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Reviewed and authorised by

Harish Mendhi

Technical Manager

Chemical Testing

Reviewed and authorised by

Shital Lakhorkar

Group In-charge

**Biological Testing** 











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# TEST REPORT

| CALCENTER       |
|-----------------|
|                 |
|                 |
| 副注              |
| RE-DessEpitionT |

Date of Start of

Analysis

09.10.2023

| Report No.:    | ME-0465231007   |   | Date: 18.10.2023   |  |
|----------------|---|---|--|--|
| ULR No.:       | TC748723000016119F  | 1   |  |  |
| "MIRACLE" V    | illage : Ranjnoli,  | WO No.: Ver<br>WO Date: -   | bal  |  |
| Soil           | Sampling Done by  | Laboratory  |  |  |
| Near Site Area | Sample<br>Quantity / Packing  | 1 kg X 1 No. Pol  | yethene bag  |  |
| 06.10.2023     | Date of Receipt of<br>Sample  |   |  |  |
|                |   |   |  |  |
|                | ULR No.:<br>PROPOSED R<br>"MIRACLE" V<br>Tal : Bhiwandi<br>Soll<br>Near Site Area<br>06.10.2023<br>Manual of Soil | ULR No.:       TC748723000016119F         PROPOSED RESIDENTIAL PROJECT       "MIRACLE" Village : Ranjnoli,<br>Tal : Bhiwandi, Dist: Thane         Soll       Sampling Done by         Near Site Area       Sample<br>Quantity / Packing         06.10.2023       Date of Receipt of<br>Sample | ULR No.:       TC748723000016119F         PROPOSED RESIDENTIAL PROJECT<br>"MIRACLE" Village : Ranjnoli,<br>Tal : Bhiwandi, Dist: Thane       WO No.:       Ver<br>WO Date:         Soll       Sampling Done by       Laboratory         Near Site Area       Sample<br>Quantity / Packing       1 kg X 1 No. Poly<br>07.10.2023         06.10.2023       Date of Receipt of<br>Sample       07.10.2023         Manual of Soil Testing, Department of Agriculture & Cooperation |  |

Date of Completion of

Analysis

18.10.2023

| Sr.<br>No. | Parameter  | Unit                               | Result             | Method Reference   |  |  |
|------------|--|------------------------------------|--------------------|--|--|--|
|            | Discipline: Chemical<br>Testing: Product Group:<br>Pollution & Environment<br>(Soil) |                                    |                    |  |  |  |
| 1.         | pH (1+5)   | - 7.6                              |                    | Physical and Chemical methods of Soil and Water Analysis<br>Food and Agriculture Organization of the United Nations<br>(FAO) Sec. III, 1, Page No 65, 1984   |  |  |
| 2.         | Electrical Conductivity (1+5)  | trical Conductivity (1+5) µS/cm 56 |                    | Physical and Chemical methods of Soil and Water Analys<br>Food and Agriculture Organization of the United Nations<br>(FAO) Sec. III, 5 Page No 85: 1984  |  |  |
| 3.         | Moisture Content   | %                                  | 23.5               | IS 2720 (Part - II): 1973  |  |  |
| 4.         | Cation Exchange Capacity   | meq/100gm                          | 43.7               | Physical and Chemical methods of Soil and Water Analysis<br>Food and Agriculture Organization of the United Nations<br>(FAO) Sec. III 7-2, Sodium Saturation Flame Photometry<br>Method Page No. 104: 1984 |  |  |
| 5.         | Organic Matter   | %                                  | BQL<br>(LOQ:0.345) | Manual of Soil Testing, Department of Agriculture &<br>Cooperation, Ministry of Agriculture, Govt. India, Sec.4 -17,<br>Page No 83: 2011   |  |  |
| 6.         | Grain Size (Texture) Sand  | %                                  | 44.0               | Manual of Soil Testing Department of Agriculture &<br>Cooperation, Ministry of Agriculture Govt. India: 2011   |  |  |
| 7.         | Grain Size (Texture) Silt  | %                                  | 16.8               | Manual of Soil Testing Department of Agriculture & Cooperation, Ministry of Agriculture Govt. India: 2011  |  |  |
| 8.         | Grain Size (Texture) Clay  | %                                  | 39.2               | Manual of Soll Testing Department of Agriculture &<br>Cooperation, Ministry of Agriculture Govt. India: 2011   |  |  |

Page 1 of 2 QF/SALE/02 Issue No 03 Date 05.12.2019. Amd 03 Date 18.07.2023

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# TEST REPORT



Report No.: ME-0465231007 ULR No.: TC748723000016119F Date: 18.10.2023

| Sr.<br>No. | Parameter                     | Unit       | Result        | Method Reference   |
|------------|-------------------------------|------------|---------------|--|
| 9.         | Texture (Class)               | %          | Sandy<br>Clay | Manual of Soil Testing Department of Agriculture &<br>Cooperation, Ministry of Agriculture Govt. India   |
| 10.        | Available Phosphorous         | mg/kg      | 4.90          | Physical and Chemical methods of Sol and Water Analysis<br>Food and Agriculture Organization of the United Nations<br>(FAO) Sec. III, 12 – 1, Sodium Bicarbonate Extraction<br>Otsen Blue Method Page No.157.: 1984      |
| 11.        | Total Phosphorous             | mg/kg      | 372           | Manual for method of water, Soil and Plant analysis WL II,<br>Page No 16: 2006   |
| 12.        | Available Calcium             | meq/100gm  | 30.3          | Physical and Chemical methods of Soil and Water Analysis<br>Food and Agriculture Organization of the United Nations<br>(FAO) Sec. III, 8 - 1 Ammonium Acetate Extraction Titration<br>Method, Page No. 115: 1984         |
| 13.        | Available Magnesium           | meq/ 100gm | 12.8          | Physical and Chemical methods of Soil and Water Analysis<br>Food and Agriculture Organization of the United Nations<br>(FAO) Sec. III, 8 - 1 Ammonium Acetate Extraction Titration<br>Method, Page No. 115: 1984         |
| 14.        | Available Sodium              | meq/100gm  | 0.464         | Physical and Chemical methods of Soll and Water Analysis<br>Food and Agriculture Organization of the United Nations<br>(FAO) Sec. III, 8 - 1 Ammonium Acetate Extraction Flame<br>Photometric Method, Page No. 115: 1984 |
| 15.        | Available Nitrogen            | mg/kg      | 67.2          | Manual of Soil Testing, Department of Agriculture &<br>Cooperation, Ministry of Agriculture, Govt. India, Sec.4 -17,<br>Page No 89: 2011   |
| 16.        | Available Potassium meq/100gm |            | 0.101         | Physical and Chemical methods of Soil and Water Analysis<br>Food and Agriculture Organization of the United Nations<br>(FAO) Sec. III, 8 - 1 Ammonium Acetate Extraction Flame<br>Photometric Method, Page No. 115: 1984 |
| 17.        | Total Copper                  | mg/kg      | 73.1          | US EPA/SW 846 Method 30508:1996, 7000B Rev.02: 2007  |
| 18.        | Total Iron                    | mg/kg      | 37815         | US EPA/SW 846 Method 3050B:1996, 7000B Rev.02: 2007  |
| 19         | Total Zinc                    | mg/kg      | 64.6          | US EPA/SW 846 Method 3050B:1996, 7000B Rev.02: 200   |

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### TEST REPORT

| 過ぎ   |
|------|
| 0.25 |

Report No.: ME-0465231007N ULR No.: - Date: 18.10.2023

| Name and<br>Address of Customer | PROPOSED RESIDENTIAL PROJECT<br>"MIRACLE" Village : Ranjnoli,<br>Tal : Bhiwandi, Dist: Thane |                                      | WO No.: Verbal<br>WO Date: -              |  |  |
|---------------------------------|--|--------------------------------------|---|--|--|
| Sample<br>Description / Type    | Soil Sampling Done by  |                                      | Laboratory                                |  |  |
| Sampling Location               | Quantity / Packing   |                                      | 1 kg X 1 No. Polyethene bag<br>07.10.2023 |  |  |
| Date of Sampling                |  |                                      |   |  |  |
| Sampling Procedure              | Manual of Soil Te<br>Agriculture, Govt   | esting, Department of Agric<br>India | culture & Cooperation, Ministry of        |  |  |
| Date of Start of<br>Analysis    | 09.10.2023   | Date of Completion of<br>Analysis    | 18.10.2023                                |  |  |

| Sr.<br>No. | Parameter  | Unit  | Result            | Method Reference                                      |  |
|------------|--|-------|-------------------|---|--|
|            | Discipline: Chemical<br>Testing: Product Group:<br>Pollution & Environment<br>(Soil) |       |                   |   |  |
| 1.         | Free Lime  | %     | 0.162             | FAO Sec. III. Page no-71                              |  |
| 2.         | Total Sulphur  | %     | BQL<br>(LOQ:0.05) | ASTM D 4239-18  |  |
| 3.         | Total Manganese  | mg/kg | 1173              | US EPA/SW 846 Method 3050B:1996, 7000B Rev.02<br>2007 |  |

#### END OF REPORT

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| 25820658 32648652    | 93240-25898          | 99303-305790      | 02020 51570 |
|----------------------|----------------------|-------------------|-------------|
| Contact Phone Survey | Ganesh Naik          | Ajeet Kumar       | 93239-51573 |
| mahabal60@yahoo.com  | ganesh3300@yahoo.com | mee.mocb@omai.com | R B Mahabal |

Environmental Monitoring Survey Work - Record (Monthly) Sushant Sahu + Sagar Sable . 8369090041

Ref.No.

Survey Team

Mobile No.

|                              |  | -2023  |
|------------------------------|--|--|
| Proposed Residential Project | Mr.  | Mr. Vardhan Shanmugam  |
| "Miracle" Village: Ranjnoli, | Post   | Safety Officer   |
| rai, biliwanui, bisc; mane   | Mobile   | 9962826106   |
|                              | E-Mail   | VARADHAN_SHANMUGAM@mahindra.com  |
|                              | Direct   |  |
|                              | Fax  |  |
|                              | Proposed Residential Project<br>"Miracle" Village: Ranjnoli,<br>Tal: Bhiwandi, Dist: Thane | "Miracle" Village: Ranjnoli, Post<br>Tal: Bhiwandi, Dist: Thane Mobile<br>E-Mail<br>Direct |

Daie

|                  |      | 0.44 | SURVEY DETAILS | 5            |                |
|------------------|------|------|----------------|--------------|----------------|
| Sample from      | Quan | tity | Survey Date    | Arrival time | Departure time |
| Stack            | DI   | 01   |                | Annual chine | beparture time |
| Ambient          | 01   | 01   |                |              |                |
| Noise            | 02   | 02   |                |              |                |
| Work room        | 1.00 | -    |                |              |                |
| Effluent         |      | -    |                |              |                |
| Water Driving    | 01+1 | 01   |                |              |                |
| Haz. Waste(30;1) | 01   | 01   |                |              |                |
| Meteorology      |      |      |                |              |                |
| Other            |      |      |                |              |                |
|                  |      |      |                |              |                |

| From Client: Feedbac                                | in y comp  | unit / Instructions       | (you c | an aiso se | nd them by fax) |
|---|------------|---------------------------|--------|------------|-----------------|
|   |            |                           |        |            |                 |
| ne chanmugam  |            | Signature<br>INTERNAL USE | 0      | flight     |                 |
| Copy of Use form                                    | - 2 No.    | DISPATCH REPOR            | E.     |            |                 |
| Account statement and per<br>Bill & advance receipt | - 3 copies |                           |        |            |                 |



11.....

Mahabal Enviro Engineers Pvt. Ltd.

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### TEST REPORT

|   |               | E A   |  |                                |  |  |  |
|---|---------------|---|--|--------------------------------|--|--|--|
| 1983 A  | Report No.: N | Report No.: ME-0322240106                   |  |                                |  |  |  |
| Des 22  | ULR No.: 1    |   | 54   |                                |  |  |  |
| Name and<br>Address of Customer                               | "MIRACLE"     | RESIDENTIAL PROJECT<br>noli, Tal: Bhiwandi, | WO No. Verba<br>WO Date: 01.12   |                                |  |  |  |
| Sample<br>Description / Type                                  | Ambient Air   | Sampling Done by                            | Laboratory   |                                |  |  |  |
| Sampling Location   | Near Main Ga  | te Sample<br>Quantity / Packing             | PM10 Filter Pape<br>PM25 Filter Pape<br>SO2:30 mL X 2 N<br>NO2:30 mL X 2 N | er 1 X 1 No.<br>Io. PVC Bottle |  |  |  |
| Date of Sampling  | 05.01.2024    | Date of Receipt of Sample                   | 06.01.2024   |                                |  |  |  |
| Sampling Procedure As per method reference                    |               |   |  |                                |  |  |  |
| Date of Start of 06.01.2024 Date of Completion of<br>Analysis |               | 08.01.2024                                  |  |                                |  |  |  |

| Sr.<br>No. | Parameter   | Unit              | Result | INAAQS | Method Reference  |
|------------|---|-------------------|--------|--------|---|
|            | Discipline: Chemical<br>Testing; Product Group:<br>Atmospheric Pollution<br>(Ambient Air) |                   |        |        |   |
| 1          | Sulphur Dioxide (SO <sub>2</sub> )  | hð/w <sub>3</sub> | 10.4   | 80     | CPCB Guidelines for the Measurement of Ambient<br>Air Pollutants, Volume I, 2012-13, Page No. 1-6   |
| 2          | Nitrogen Dioxide (NO <sub>2</sub> )   | µg/m³             | 16.4   | 80     | CPC8 Guidelines for the Measurement of Ambient<br>Air Pollutants, Volume I, 2012-13, Page No.7-10   |
| 3          | Particulate Matter (size less than 10 $\mu m$ ) or PM $_{10}$                             | µg/m³             | 59     | 100    | CPCB Guidelines for the Measurement of Ambient<br>Air Pollutants, Volume I, 2012-13, Page No. 11-14 |
| 4          | Particulate Matter (size less than 2.5µm) or PM2.5  | hð\w <sub>3</sub> | 25     | 60     | CPCB Guidelines for the Measurement of Ambient<br>Air Pollutants, Volume I, 2012-13, Page No. 15-30 |

#### END OF REPORT

Note: 1. BQL: Below Quantification Limit.

- 2. LOQ: Limit of Quantification.
- 3. Duration of Sampling: 08h.
- TWA: Time Weighted Average
- 5. NAAQS: National Ambient Air Quality Standard
- 6. #- NAAQS specified as: 8 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM10, PM25,
- The result listed refers only to the tested sample(s) and applicable parameter(s).
- 8. This report is not to be reproduced except in full, without the written approval of the laboratory.

9. Any complaint pertaining to the report can be addressed to mahabalreports@gmail.com

Page 1 of 1 QF/SALE/03 Issue No 03 Date 05.12.2019 Amd 04 Date 18.07.2023 Reviewed and authorised by









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# TEST REPORT

|                                 | Report No.: ME-0464240109 |                                 |                               | Date: 09.01.2024   |
|---------------------------------|---------------------------|---------------------------------|-------------------------------|--|
| ULR No. TC748724000000419F      |                           | TC748724000000419F              |                               | 1  |
| Name and<br>Address of Customer | "MIRACLE                  | anjnoli, Tal: Bhiwandi,         | WO No.: Verb<br>WO Date: 04.0 | A PARTY AND A PART |
| Sample<br>Description / Type    | Ambient No                | bise                            |                               | -  |
| Date of Sampling                | 05.01.2024                |                                 |                               |  |
| Sampling Procedure              | CPCB Prot                 | ocol for Ambient level Noise Mo |                               |  |

| Sr. | Location  | Time in h | ime in h<br>(day) Fast Slow (Night)<br>Response Response |      | Time in h | Sound Level Leg dB (A) |                  |
|-----|---|-----------|--|------|-----------|------------------------|------------------|
| No. |   | (day)     |  |      | (Night)   | Fast<br>Response       | Slow<br>Response |
|     | Discipline: Chemical<br>Testing: Product Group:<br>Atmospheric Pollution<br>(Ambient Noise) |           |  |      |           |                        |                  |
| 1.  | Project West Side   | 12:35     | 65.3   | 62.8 |           |                        | 2.40             |
| 2   | Near Main Gate  | 12:05     | 68.7   | 66.5 |           |                        |                  |

| Area Code | Area Type        | Limits in dB (A)                     | weighted scale                          |
|-----------|------------------|--------------------------------------|---|
|           |                  | Day Time<br>(6:00a.m. to 10:00 p.m.) | Night Time<br>(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                                      |

#### END OF REPORT

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# TEST REPORT

| Report No.: ME   |   |  |   |  |  |  |
|------------------|---|--|---|--|--|--|
| ULR No.: TC      |   |  |   |  |  |  |
| "MIRACLE" VIII   | age: Ranjnoli,  | The second s | and the second of   |  |  |  |
| Stack Emission   | Sampling Done by  | Laboratory   | 1   |  |  |  |
|                  | Contraction of the second s   |  |   |  |  |  |
| 05.01.2024       | Date of Receipt of Sample   | 06.01.2024   | ();;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;  |  |  |  |
| As per method re | ference   | -F-161684/-C-246-4   |   |  |  |  |
| 06.01.2024       | Date of Completion of<br>Analysis   | 09.01.2024   |   |  |  |  |
|                  | ULR No.: TC<br>PROPOSED RES<br>"MIRACLE" Vills<br>Tal: Bhiwandi, D<br>Stack Emission<br>D.G. Set 160 kVA<br>Near Sales Office<br>05.01.2024<br>As per method re | ULR No.:       TC748724000000294F         PROPOSED RESIDENTIAL PROJECT       "MIRACLE" Village: Ranjnoli,<br>Tal: Bhiwandi, Dist: Thane         Stack Emission       Sampling Done by         D.G. Set 160 kVA<br>Near Sales Office       Sample<br>Quantity / Packing         05.01.2024       Date of Receipt of Sample         As per method reference       Date of Completion of  | ULR No.:       TC748724000000294F         PROPOSED RESIDENTIAL PROJECT<br>"MIRACLE" Village: Ranjnoli,<br>Tal: Bhiwandi, Dist: Thane       WO No.: Verbat<br>WO Date: 04.01         Stack Emission       Sampling Done by       Laboratory         D.G. Set 160 kVA<br>Near Sales Office       Sample<br>Quantity / Packing       Thimble PM: 1 X<br>SO2: 30mL X 1No         05.01.2024       Date of Receipt of Sample       06.01.2024         As per method reference       09.01.2024 |  |  |  |

| Stack Details                           |                  |  |
|---|------------------|--|
| Stack Identity                          | Stack -1         |  |
| Stack attached to                       | D.G. Set 160 kVA |  |
| Material of construction                | M.S.             |  |
| Stack height above ground level (Meter) | 3                |  |
| Stack diameter (Meter)                  | 0.10             |  |
| Stack shape at top                      | Round            |  |
| Type of fuel                            | Diesel           |  |
| Fuel Consumption (L/h)                  | 3                |  |

| Sr.<br>No. | Parameter   | Unit               | Result | Method Reference        |  |
|------------|---|--------------------|--------|-------------------------|--|
|            | Discipline: Chemical Testing;<br>Product Group: Atmospheric<br>Pollution (Stack Emission) |                    |        |                         |  |
| 1          | Fiue gas Temperature  | °С                 | 139    | IS 11255 (Part 3):2008  |  |
| 2          | Flue gas Velocity   | m/s                | 10.7   | IS 11255 (Part 3):2008  |  |
| 3          | Flue Gas Flow Rate  | Nm <sup>3</sup> /h | 219    | IS 11255 (Part 3):2008  |  |
| 4          | Particulate Matter (PM)   | mg/Nm <sup>3</sup> | 25     | IS 11255 (Part 1):1985  |  |
| 5          | Sulphur Dioxide (SO <sub>2</sub> )  | mg/Nm <sup>3</sup> | 18     | IS 11255 (Part 2): 1985 |  |

Page 1 of 2 QF/SALE/04 Issue No 03 Date 05 12 2019 Amd 03 Date 18.07 2023

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# TEST REPORT



Report No.: ME-0323240106 ULR No.: TC748724000000294F Date: 10.01.2024

Note: 1. BQL: Below Quantification Limit

- 2. LOQ: Limit of Quantification
- 3 The result listed refers only to the tested sample(s) and applicable parameter(s).
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## TEST REPORT

| Carlos and                      | Report No.                         | ME-0385240107                     | Date: 13.01.2024  |      |  |
|---------------------------------|------------------------------------|-----------------------------------|---|------|--|
| <b>同</b> 代现                     | ULR No.:                           | TC748724000000348F                |   | 1001 |  |
| Name and<br>Address of Customer | "MIRACLE"                          | ESIDENTIAL PROJECT                | WO No.: Verb<br>WO Date: 04.0   |      |  |
| Sample<br>Description / Type    | Drinking water                     | Sampling Done by                  | Laboratory  |      |  |
| Sampling Location               | Near Sales Offi<br>(Bisleri Water) | ce Sample<br>Quantity / Packing   | 2L X 1 No. PVC Can<br>500 mL X 1 No. PVC Can<br>250 mL X 1 No. Sterilized Glass<br>Bottle |      |  |
| Date of Sampling                | 06.01.2024                         | Date of Receipt of<br>Sample      | 07.01.2024  |      |  |
| Sampling Procedure              | IS:3025 (Part I)                   | IS 1622; APHA 24* Ed. 2023        | 3, 1060-B, 9060 A   |      |  |
| Date of Start of<br>Analysis    | 07.01.2024                         | Date of Completion of<br>Analysis | 12.01.2024  |      |  |

| Sr.<br>No. | Parameter  | arameter Unit Result | Result            | #Limit    | SLimit        | Method Reference                       |
|------------|--|----------------------|-------------------|-----------|---------------|--|
|            | Discipline: Chemical<br>Testing; Product<br>Group: Water (Drinking<br>Water) |                      |                   |           |               |  |
| 1.         | Colour   | Hazen                | BQL<br>(LOQ:1)    | 5 Max     | 15 Max        | APHA 24 <sup>th</sup> Ed. 2023, 2120-B |
| 2.         | Odour  |                      | Agreeable         | Agreeable | Agreeable     | IS 3025 (Part 05):2018                 |
| 3.         | Turbidity  | NTU                  | 0.1               | 1 Max.    | 5 Max.        | APHA 24* Ed. 2023, 2130-B              |
| 4.         | pH   |                      | 6.8               | 65to85    | No Relaxation | APHA 24# Ed. 2023, 4500-H+-B           |
| 5.         | Free Chlorine (Residual)   | mg/L                 | BQL<br>(LOQ:0.05) | 0.2 Min.  | 1.0 Min.      | APHA 24* Ed. 2023, 4500-CI G           |
| 6          | Total Suspended Solids   | mg/L                 | BQL<br>(LOQ:5)    | 81<br>1   | 8             | APHA 24 <sup>p</sup> Ed. 2023, 2540-D  |
| 7,         | Total Dissolved Solids   | mg/L                 | 39                | 500 Max.  | 2000 Max.     | IS 3025 (Part 16) 2023                 |
| 8.         | Alkalinity Total (as<br>CaCO <sub>3</sub> )                                  | mg/L                 | 20                | 200 Max.  | 600 Max.      | APHA 24* Ed. 2023, 2320-B              |
| 9.         | Total Hardness (as<br>CaCO <sub>3</sub> )                                    | mg/L                 | 18                | 200 Max.  | 600 Max.      | APHA 24* Ed. 2023, 2340-C              |
| 10.        | Ghloride (as Cl)   | mg/L                 | 6.0               | 250 Max   | 1000 Max.     | APHA 24# Ed. 2023, 4500-CI-B           |
| 11.        | Sulphate (as SO <sub>4</sub> )   | mg/L                 | 2.0               | 200 Max   | 400 Max.      | APHA 24* Ed. 2023, 4500- SO4-E         |
| 12,        | Nitrate (as NOs)   | mg/L                 | 1.51              | 45 Max    | No Relaxation | APHA 24th Ed. 2023, 4500-NO3-B         |

Page 1 of 2 QF/SALE/02 Issue No 03 Date 05 12 2019 Amd 03 Date 18 07 2023

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Harish Mendhi

Technical Manager

Chemical Testing

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Reviewed and authorised by

Pranali Kurve Technical Manager Biological Testing







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### TEST REPORT

| 68         | R   | eport No.: | ME-0385240        | 107  |               |                  | Date: 13.01.2024    |
|------------|---|------------|-------------------|--|---------------|------------------|---------------------|
| Ō          | <u>e92</u>  | LR No :    | TC74872400        |  | 1             |                  |                     |
| Sr.<br>No. | Parameter   | Unit       | Result            | #Limit   | \$Limit       | Method Reference |                     |
| 13.        | Calcium (as Ca)   | mg/L       | 4.0               | 75 Max   | 200 Max.      | APHA 24          | Ed. 2023, 3500-Ca-8 |
| 14.        | Magnesium (as Mg)   | mg/L       | 1.9               | 30 Max.  | 100 Max.      | APHA 24*         | Ed. 2023, 3500-Mg-B |
| 15         | Fluoride (as F)   | mg/L       | 0.16              | 1 Max  | 1.5 Max.      | APHA 24*         | Ed. 2023, 4500-F, D |
|            | Product Group:<br>Residues in water   |            |                   |  |               |                  |                     |
| 16.        | Iron (as Fe)  | mg/L       | BQL<br>(LOQ.0.03) | 1.0 Max.   | No Relaxation | IS:3025 (Pa      | ert 2), 2019        |
|            | Discipline: Biological<br>Testing: Product<br>Group: Water (Drinkin<br>water) |            |                   |  |               |                  |                     |
| 17.        | Total Coliforms   | /100mL     | Absent            | Shall not be<br>detectable in<br>any 100 mL<br>Sample. | 28            | IS 15185:2016    |                     |
| 18.        | Escherichia coli  | /100mL     | Absent            | Shall not be<br>detectable in<br>any 100 mL<br>Sample. | 1.0           | IS 15185:20      | 116                 |

#### END OF REPORT

Note: 1. BQL: Below Quantification Limit.

- 2. LOQ: Limit of Quantification.
- #: 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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Wennes

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Pranali Kurve Technical Manager Biological Testing

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# TEST REPORT

| and the change of the second    |                 |   |  |                  |  |  |
|---------------------------------|-----------------|---|--|------------------|--|--|
| 1844                            | Report No.:     | ME-0386240107                               |  | Date: 13.01.2024 |  |  |
|                                 | ULR No.:        | TC74872400000349F                           |  | 51               |  |  |
| Name and<br>Address of Customer | "MIRACLE"       | RESIDENTIAL PROJECT<br>noli, Tal: Bhiwandi, | WO No. Verba<br>WO Date: 04.01   |                  |  |  |
| Sample<br>Description / Type    | Drinking water  | Sampling Done by                            | Laboratory   |                  |  |  |
| Sampling Location               | Labour Camp     | Sample<br>Quantity / Packing                | 2L X 1 No. PVC Can<br>500 mL X 1 No. PVC Can<br>250 mL X 1 No. Sterilized Gl<br>Bottle |                  |  |  |
| Date of Sampling                | 06.01.2024      | Date of Receipt of<br>Sample                | 07.01.2024   |                  |  |  |
| Sampling Procedure              | IS:3025 (Part I | ); IS 1622; APHA 24* Ed. 2023               | 3, 1060-B, 9060 A  |                  |  |  |
| Date of Start of<br>Analysis    | 07.01.2024      | Date of Completion of<br>Analysis           | 12.01.2024   |                  |  |  |
|                                 |                 |   |  |                  |  |  |

| Sr.<br>No. | Parameter  | Unit   | Result            | #Limit     | SLimit        | Method Reference                       |
|------------|--|--------|-------------------|------------|---------------|--|
|            | Discipline: Chemical<br>Testing: Product<br>Group: Water (Drinking<br>Water) |        |                   |            |               |  |
| 1.         | Colour   | Hazen  | BQL<br>(LOQ:1)    | 5 Max.     | 15 Max.       | APHA 24 <sup>th</sup> Ed. 2023, 2120-B |
| 2.         | Odour  | 14 - C | Agreeable         | Agreeable  | Agreeable     | IS 3025 (Part 05):2018                 |
| 3.         | Turbidity  | NTU    | 0.2               | 1 Max.     | 5 Max         | APHA 24 <sup>th</sup> Ed. 2023, 2130-B |
| 4.         | pН   | × .    | 7.5               | 6.5 to 8.5 | No Relaxation | APHA 24* Ed. 2023, 4500-H+-B           |
| 5.         | Free Chlorine (Residual)   | mg/L   | BQL<br>(LOQ:0.05) | 0.2 Min.   | 1.0 Min.      | APHA 24# Ed. 2023, 4500-CI G           |
| 3.         | Total Suspended Solids   | mg/L   | BQL<br>(LOQ:5)    | 8          |               | APHA 24* Ed. 2023, 2540-D              |
| 7.         | Total Dissolved Solids   | mg/L   | 65                | 500 Max.   | 2000 Max.     | IS 3025 (Part 16) 2023                 |
| 8.         | Alkalinity Total (as<br>CaCO <sub>3</sub> )                                  | mg/L   | 34                | 200 Max    | 600 Max       | APHA 24 <sup>th</sup> Ed. 2023, 2320-B |
| 9.         | Total Hardness (as CaCO <sub>3</sub> )                                       | mg/L   | 44                | 200 Max.   | 500 Max.      | APHA 24* Ed. 2023, 2340-C              |
| 10.        | Chloride (as Cl)   | mg/L   | 9.0               | 250 Max.   | 1000 MBK      | APHA 24* Ed. 2023, 4500-CI-B           |
| 11.        | Sulphate (as SO4)  | mg/L   | 4.1               | 200 Max.   | 400 Max.      | APHA 24* Ed. 2023, 4500- SO4-E         |
| 12         | Nitrate (as NO <sub>3</sub> )  | mg/L   | 2.0               | 45 Max.    | No Relaxation | APHA 24* Ed. 2023, 4500-NO3-B          |

Page 1 of 2 QF/SALE/02 Issue No 03 Date 05.12.2019 Amd 03 Date 18.07.2023

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Harish Mendhi

Chemical Testing

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Pranali Kurve Technical Manager Technical Manager **Biological Testing** 





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# TEST REPORT

| 73         | R   | eport No.: | ME-038624 | 0107   |               |             | Date: 13.01.2024    |
|------------|---|------------|-----------|--|---------------|-------------|---------------------|
|            | ULR No  |            | TC7487240 | 00000349F  |               | 21          |                     |
| Sr.<br>No. | Parameter   | Unit       | Result    | #Limit   | <b>SLimit</b> | Method Re   | ference             |
| 13.        | Calcium (as Ca)   | mg/L       | 10.4      | 75 Max   | 200 Max.      | APHA 24*    | Ed. 2023, 3500-Ca-B |
| 14         | Magnesium (as Mg)   | mg/L       | 4.4       | 30 Max.  | 100 Max.      | APHA 24*    | Ed. 2023, 3500-Mg-B |
| 15         | Fluoride (as F)   | mg/L       | 0.35      | 1 Max.   | 1.5 Max.      | APHA 24*    | Ed. 2023, 4500-F, D |
|            | Product Group:<br>Residues in water   |            |           |  |               |             |                     |
| 16         | Iron (as Fe)  | mg/L       | 0.068     | 1.0 Max.   | No Relaxation | IS:3025 (Pa | art 2), 2019        |
|            | Discipline: Biological<br>Testing; Product<br>Group: Water (Drinkin<br>water) |            |           |  |               |             |                     |
| 17.        | Total Coliforms   | /100mL     | Absent    | Shall not be<br>detectable in<br>any 100 mL<br>Sample  | 3             | IS 15185-20 | 016                 |
| 18.        | Escherichia coli  | /100mL     | Absent    | Shall not be<br>detectable in<br>any 100 mL<br>Sample. |               | IS 15185:20 | 916                 |

#### END OF REPORT

Note: 1. BQL Below Quantification Limit.

- 2. LOQ: Limit of Quantification.
- # Acceptable Limit as per IS 10500:2012; RA 2018.
- Permissible Limit in the Absence of Alternate Source as per IS 10500:2012 RA 2018
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Pranali Kurve Technical Manager Biological Testing







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## TEST REPORT

|                                 |                                   | TEST REPORT                               |                                |                  |  |
|---------------------------------|-----------------------------------|---|--------------------------------|------------------|--|
|                                 | Report No.:                       | ME-0419240108                             |                                | Date: 17.01.2024 |  |
|                                 | ULR No.                           | TC748724000000374F                        |                                | 21               |  |
| Name and<br>Address of Customer | "MIRACLE"                         | ESIDENTIAL PROJECT                        | WO No. Verba<br>WO Date: 04.01 |                  |  |
| Sample<br>Description / Type    | Soil                              | Sampling Done by                          | Laboratory                     | 1                |  |
| Sampling Location               | Near Site Area                    | Sample<br>Quantity / Packing              | 1 kg X 1 No. Poly              | ethene bag       |  |
| Date of Sampling                | 06.01.2024                        | Date of Receipt of<br>Sample              | 08.01.2024                     |                  |  |
| Sampling Procedure              | Manual of Soil<br>Agriculture, Go | Testing, Department of Agric<br>vt. India | ulture & Cooperation           | , Ministry of    |  |
| Date of Start of<br>Analysis    | 09.01.2024                        | Date of Completion of<br>Analysis         | 13.01.2024                     |                  |  |

| Sr.<br>No. | Parameter  | Unit      | Result | Method Reference   |
|------------|--|-----------|--------|--|
|            | Discipline: Chemical<br>Testing; Product Group:<br>Pollution & Environment<br>(Soil) |           |        |  |
| £          | pH (1+5)   |           | 8.0    | Physical and Chemical methods of Soil and Water Analysis<br>Food and Agriculture Organization of the United Nations<br>(FAO) Sec. III, 1, Page No 65, 1984   |
| 2          | Electrical Conductivity (1+5)  | μS/cm     | 122    | Physical and Chemical methods of Soil and Water Analysis<br>Food and Agriculture Organization of the United Nations<br>(FAO) Sec. III, 5 Page No 85: 1964  |
| 3.         | Moisture Content   | %         | 11.5   | IS 2720 (Part - II): 1973  |
| 4.         | Cation Exchange Capacity   | meq/100gm | 40.9   | Physical and Chemical methods of Soil and Water Analysis<br>Food and Agriculture Organization of the United Nations<br>(FAO) Sec. III 7-2, Sodium Saturation Flame Photometry<br>Method Page No. 104: 1984 |
| 5.         | Organic Matter   | %         | 0.845  | Manual of Soil Testing, Department of Agriculture &<br>Cooperation, Ministry of Agriculture, Govt. India, Sec.4-17,<br>Page No 83: 2011  |
| 6          | Grain Size (Texture) Sand  | %         | 43.9   | Manual of Soil Testing Department of Agriculture &<br>Cooperation, Ministry of Agriculture Govt. India: 2011   |
| 7.         | Grain Size (Texture) Silt  | %         | 22.6   | Manual of Soil Testing Department of Agriculture &<br>Cooperation, Ministry of Agriculture Govt. India: 2011   |
| 8.         | Grain Size (Texture) Clay  | %         | 33.6   | Manual of Soil Testing Department of Agriculture &<br>Cooperation, Ministry of Agriculture Govt, India: 2011   |

Page 1 of 2 QF/SALE/02 Issue No 03 Date 05.12.2019 Amd 03 Date 18.07.2023

Reviewed and authorised by







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### TEST REPORT



Report No.: ME-0419240108 ULR No.: TC748724000000374F Date: 17.01.2024

| Sr.<br>No. | Parameter             | Unit       | Result             | Method Reference   |
|------------|-----------------------|------------|--------------------|--|
| 9.         | Texture (Class)       | %          | Sandy Clay<br>Loam | Manual of Soil Testing Department of Agriculture &<br>Cooperation, Ministry of Agriculture Govt. India   |
| 10.        | Available Phosphorous | mg/kg      | 20.6               | Physical and Chemical methods of Soil and Water Analysis<br>Food and Agriculture Organization of the United Nations<br>(FAO) Sec. III, 12 – 1. Sodium Bicarbonate Extraction<br>Olsen Blue Method Page No. 157.: 1984    |
| 11.        | Total Phosphate       | mg/kg      | 999                | Manual for method of water, Soil and Plant analysis WL II, Page No 16: 2006  |
| 12         | Available Calcium     | meq/100gm  | 30.5               | Physical and Chemical methods of Soil and Water Analysis<br>Food and Agriculture Organization of the United Nations<br>(FAO) Sec. III, 8 - 1 Ammonium Acetate Extraction Titration<br>Method, Page No. 115, 1964         |
| 13         | Available Magnesium   | meq/ 100gm | 9.11               | Physical and Chemical methods of Soil and Water Analysis<br>Food and Agriculture Organization of the United Nations<br>(FAO) Sec. III, 8 - 1 Ammonium Acetate Extraction Titration<br>Method, Page No. 115: 1984         |
| 14.        | Available Sodium      | meq/100gm  | 0.828              | Physical and Chemical methods of Soil and Water Analysis<br>Food and Agriculture Organization of the United Nations<br>(FAO) Sec. III, 8 - 1 Ammonium Acetale Extraction Flame<br>Photometric Method, Page No. 115: 1984 |
| 15         | Available Nitrogen    | mg/kg      | 333                | Manual of Sol Testing, Department of Agriculture &<br>Cooperation, Ministry of Agriculture, Govt. India, Sec.4 -17<br>Page No 89: 2011   |
| 16.        | Available Potassium   | meq/100gm  | 0.386              | Physical and Chemical methods of Soil and Water Analysis<br>Food and Agriculture Organization of the United Nations<br>(FAO) Sec. III, 8 - 1 Ammonium Acetate Extraction Flame<br>Photometric Method, Page No. 115: 1984 |
| 17         | Total Copper          | mg/kg      | 93.0               | US EPA/SW 846 Method 3050B 1996, 7000B Rev.02: 2007  |
| 18.        | Total Iron            | mg/kg      | 48767              | US EPA/SW 846 Method 30508:1996, 70008 Rev.02: 2007  |
| 19.        | Total Zinc            | mg/kg      | 84.6               | US EPA/SW 846 Method 30508:1996, 70008 Rev. 02: 2007   |
| 20.        | Total Manganese       | mg/kg      | 587                | US EPA/SW 846 Method 30508:1996, 70008 Rev 02: 2007  |

#### END OF REPORT

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2. LOQ: Limit of Quantification.

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# TEST REPORT

|                                 |                                   | Magna and a same and a |                               | 1 of             |  |  |
|---------------------------------|-----------------------------------|--|-------------------------------|------------------|--|--|
| 100                             | Report No.:                       | ME-0419240108N   |                               | Date: 17.01.2024 |  |  |
|                                 | ULR No.                           | •  |                               | 1001             |  |  |
| Name and<br>Address of Customer | "MIRACLE"                         | ESIDENTIAL PROJECT   | WO No.: Verb<br>WO Date: 04.0 |                  |  |  |
| Sample<br>Description / Type    | Soil                              | Sampling Done by   | Laboratory                    |                  |  |  |
| Sampling Location               | Near Site Area                    | Sample<br>Quantity / Packing   | 1 kg X 1 No. Po               | lyethene bag     |  |  |
| Date of Sampling                | 06.01.2024                        | Date of Receipt of<br>Sample   | 08.01.2024                    |                  |  |  |
| Sampling Procedure              | Manual of Soil<br>Agriculture, Go | Manual of Soil Testing, Department of Agriculture & Cooper<br>Agriculture, Govt. India                         |                               |                  |  |  |
| Date of Start of<br>Analysis    | 09.01.2024                        | Date of Completion of<br>Analysis  | 13.01.2024                    |                  |  |  |

| Sr.<br>No. | Parameter  | Unit | Result            | Method Reference         |
|------------|--|------|-------------------|--------------------------|
|            | Discipline: Chemical<br>Testing; Product Group:<br>Pollution & Environment<br>(Soil) |      |                   |                          |
| 1.         | Free Lime  | %    | 0.183             | FAO Sec. III. Page no-71 |
| 2.         | Total Sulphur  | %    | BQL<br>(LOQ:0.05) | ASTM D 4239-18           |

#### END OF REPORT

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Page 1 of 1 OF/SALE/02 Issue No 03 Date 05.12.2019 Amd 03 Date 18.07.2023 Reviewed and authorised by



|                          | act Pho   | 32648<br>ne Surve<br>yahoo.c | y     | 93240-258<br>Ganesh Na<br>garesh3300@yaho | ik                | 99303-305790<br>Ajeet Kumar<br>mee moct@gmail.com |            | 93239-1<br>R B Ma<br>raghunath@m | habal    |
|--------------------------|---|------------------------------|-------|---|-------------------|---|------------|----------------------------------|----------|
| Survey Team<br>Achile No | En  |                              |       |   |                   | ( - Record (M<br>msocley + 5<br>361 7             |            |                                  | 12       |
| Ref.No                   |   |                              |       |   |                   | Date  | 21         | 12]                              | -2023    |
| Client                   | The set of |                              |       | iect                                      | Mr.               | Mr. Vardhar                                       | Shar       | mugam                            |          |
|                          |   |                              |       |   | Post              | Safety Offic                                      |            | 100                              | 01       |
|                          |   |                              |       |   | Mobile 9962826106 |   |            |                                  |          |
|                          |   |                              |       |   | E-Mail            | VARADHAN.SH                                       |            | AMSmahin                         | dra:com  |
| Board                    |   |                              |       |   | Direct            | TARGET PORTS                                      | Contribute | 0.10 Page 1000 101               |          |
|                          |   |                              |       |   |                   | -   |            |                                  |          |
| Extr.                    |   |                              |       |   | Fax               |   |            |                                  |          |
|                          |   |                              |       | SURVEY D                                  | ETAILS            |   |            |                                  |          |
| Sample fr                | m   | Qua                          | ntity | Survey D                                  | Date              | Arrival tim                                       | ie         | Depart                           | ure time |
| Stack                    |   | -                            | 01    |   |                   |   |            |                                  |          |
| Ambient                  |   | ~                            | 01    |   |                   |   |            |                                  |          |
| Noise                    |   | ~                            | 02    |   |                   |   |            |                                  |          |
| Work room                |   |                              |       | 1   | 0.0               |   |            |                                  |          |
| Effluent                 | 1.10  |                              |       | 2/12/3                                    | 23                |   |            |                                  |          |
| Water • D                | 2111 - C. 196-342-  | -                            | 0102  |   |                   |   | - 74       |                                  |          |
| Haz. Waste               |   |                              | 01    |   |                   |   |            |                                  |          |
| Meteorolog<br>Other      | Y   |                              |       |   |                   |   |            |                                  |          |
| OLDET.                   |   | 5011                         |       | Alexander and and and                     |                   | (you can also                                     |            | d thom b                         | tax)     |

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Signature: INTERNAL USE

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## TEST REPORT

|                                 |               |   |  | 100                            |
|---------------------------------|---------------|---|--|--------------------------------|
| S.S.S.                          | Report No.: N | E-0195231203                                |  | Date: 07.12.2023               |
| DES2                            | ULR No.: T    | C748723000019609F                           |  | 1                              |
| Name and<br>Address of Customer | "MIRACLE"     | RESIDENTIAL PROJECT<br>noli, Tal: Bhiwandi, | WO No. Verba<br>WO Date: 01.12   | all address                    |
| Sample<br>Description / Type    | Ambient Air   | Sampling Done by                            | Laboratory   |                                |
| Sampling Location               | Near Main Ga  | e Sample<br>Quantity / Packing              | PM <sub>10</sub> Filter Pape<br>PM <sub>25</sub> : Filter Pape<br>SO <sub>2</sub> :30 mL X 2 N<br>NO <sub>2</sub> :30 mL X 2 N | er 1 X 1 No.<br>Io. PVC Bottle |
| Date of Sampling                | 02.12.2023    | Date of Receipt of Sample                   | 03.12.2023   |                                |
| Sampling Procedure              | As per method | reference                                   |  |                                |
| Date of Start of<br>Analysis    | 04.12.2023    | Date of Completion of<br>Analysis           | 05.12.2023   |                                |

| Sr.<br>No. | Parameter   | Unit              | Result | #NAAQS | Method Reference   |
|------------|---|-------------------|--------|--------|--|
|            | Discipline: Chemical<br>Testing; Product Group:<br>Atmospheric Pollution<br>(Ambient Air) |                   |        |        |  |
| 1          | Sulphur Dioxide (SO <sub>2</sub> )  | µg/m³             | 13.6   | 80     | CPCB Guidelines for the Measurement of Ambient<br>Air Pollutants, Volume I, 2012-13, Page No. 1-6  |
| 2          | Nitrogen Dioxide (NO <sub>2</sub> )   | µg/m <sup>3</sup> | 14.7   | 80     | CPCB Guidelines for the Measurement of Ambient<br>Air Pollutants, Volume I, 2012-13, Page No.7-10  |
| 3          | Particulate Matter (size less than 10µm) or PM <sub>10</sub>                              | µg/m³             | 56     | 100    | CPCB Guidelines for the Measurement of Ambient<br>Air Pollutants, Volume I, 2012-13, Page No.11-14 |
| 4          | Particulate Matter (size less than 2.5µm) or PM2.5  | µġ/m³             | 22     | 60     | CPCB Guidelines for the Measurement of Ambient<br>Air Pollutants, Volume I, 2012-13, Page No.15-30 |

#### END OF REPORT

Note: 1. BQL: Below Quantification Limit.

- 2. LOQ: Limit of Quantification.
- 3. Duration of Sampling: 08h.
- TWA: Time Weighted Average
- 5. NAAQS: National Ambient Air Quality Standard
- 6. #- NAAQS specified as: 8 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM10, PM25,
- 7. The result listed refers only to the tested sample(s) and applicable parameter(s).
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## TEST REPORT

|      | LU Jail                         | Report No.: | Report No.: ME-0199231203       |                                |     |  |  |
|------|---------------------------------|-------------|---------------------------------|--------------------------------|-----|--|--|
| O'AB |                                 | ULR No :    | TC748723000019613F              |                                | 100 |  |  |
|      | Name and<br>Address of Customer | "MIRACLE    | anjnoli, Tal: Bhiwandi,         | WO No. Verba<br>WO Date: 01.12 |     |  |  |
|      | Sample<br>Description / Type    | Ambient No  | bise                            |                                |     |  |  |
|      | Date of Sampling                | 02.12.2023  |                                 |                                |     |  |  |
|      | Sampling Procedure              | CPCB Prote  | ocol for Ambient level Noise Mo | nitoring 2015                  |     |  |  |
|      |                                 |             |                                 |                                |     |  |  |

| Sr.<br>No. | Location  | Time<br>in h<br>(day) | Sound Level<br>Leg dB (A)<br>Fast<br>Response | Sound Level<br>Leg dB (A)<br>Slow<br>Response | Time<br>in h<br>(Night) | Sound Level<br>L <sub>sq</sub> dB (A)<br>Fast<br>Response | Sound Level<br>Leg dB (A)<br>Slow<br>Response |
|------------|---|-----------------------|---|---|-------------------------|---|---|
|            | Discipline:<br>Chemical Testing:<br>Product Group:<br>Atmospheric<br>Pollution<br>(Ambient Noise) |                       |   |   |                         |   |   |
| 1.         | Project West Side   | 12:35                 | 66.7  | 63.2  | -                       |   | 12  |
| 2.         | Near Main Gate  | 12:05                 | 69.3  | 67.2  | -                       | <u>a</u> :  | 22  |

| Area Code | Area Type        | Limits in dB (A)                     | weighted scale                          |
|-----------|------------------|--------------------------------------|---|
|           | 4004             | Day Time<br>(6.00a.m. to 10:00 p.m.) | Night Time<br>(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                                      |

#### END OF REPORT

Note:

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### TEST REPORT

|                                    |   |               |                                   |  | and the second sec   |  |
|------------------------------------|---|---------------|-----------------------------------|--|--|--|
| 100 9                              | Report No.:   | ME-0196231203 |                                   |  | Date: 07.12.2023   |  |
|                                    | ULR No .:   | TC74          | 8723000019610F                    |  | 21   |  |
| Name and<br>Address of<br>Customer | PROPOSED<br>"MIRACLE"<br>Tal: Bhiwand                             | Villag        |                                   | WO No.: Verba<br>WO Date: 01.12                    | A REAL PROPERTY OF A READ PROPERTY OF A REAL PROPER |  |
| Sample<br>Description / Type       | Stack Emissio   | on            | Sampling Done by                  | Laboratory   |  |  |
| Sampling Location                  | n D.G. Set 160 kVA Sample<br>Near Sales Office Quantity / Packing |               |                                   | Thimble PM: 1 X 1 No.<br>SO2:30mL X 1No.PVC Bottle |  |  |
| Date of Sampling                   | 02.12.2023  |               | Date of Receipt of Sample         | 03.12.2023   |  |  |
| Sampling<br>Procedure              | As per metho  | d refe        | rence                             |  |  |  |
| Date of<br>Start of Analysis       | 04.12.2023  |               | Date of Completion of<br>Analysis | 05.12.2023   |  |  |
|                                    |   |               |                                   |  |  |  |

| Stack Details                           |                  |
|---|------------------|
| Stack Identity                          | Stack -1         |
| Stack attached to                       | D.G. Set 160 kVA |
| Material of construction                | M.S.             |
| Stack height above ground level (Meter) | 3                |
| Stack diameter (Meter)                  | 0.10             |
| Stack shape at top                      | Round            |
| Type of fuel                            | Diesel           |
| Fuel Consumption (L/h)                  | 3                |

| Sr.<br>No. | Parameter Unit  |                    | Parameter Unit Result |                        | Method Reference |  |  |
|------------|---|--------------------|-----------------------|------------------------|------------------|--|--|
|            | Discipline: Chemical Testing:<br>Product Group: Atmospheric<br>Pollution (Stack Emission) |                    |                       |                        |                  |  |  |
| 1          | Flue gas Temperature  | °C                 | 128                   | IS 11255 (Part 3):2008 |                  |  |  |
| 2          | Flue gas Velocity   | m/s                | 10.5                  | IS 11255 (Part 3):2008 |                  |  |  |
| 3          | Flue Gas Flow Rate  | Nm <sup>2</sup> /h | 220                   | IS 11255 (Part 3):2008 |                  |  |  |
| 4          | Particulate Matter (PM)   | mg/Nm <sup>5</sup> | 23                    | IS 11255 (Part 1):1985 |                  |  |  |
| 5          | Sulphur Dioxide (SO2)   | mg/Nm <sup>3</sup> | 16                    | (S 11255 (Part 2):1985 |                  |  |  |

#### END OF REPORT

Page 1 of 2 QF/SALE/04 Issue No 03 Date 05 12 2019 Amd 03 Date 18.07 2023

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# TEST REPORT



Report No.: ME-0196231203 ULR No.: TC748723000019610F Date: 07.12.2023

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# TEST REPORT

| 100.05 | Report No.: | ME-0197231203      | Date: 11.12.2023 |
|--------|-------------|--------------------|------------------|
|        | ULR No :    | TC748723000019611F |                  |

| Name and<br>Address of Customer |                                     |                                   | WO No.: Verbal<br>WO Date: 05.10,2023   |
|---------------------------------|-------------------------------------|-----------------------------------|---|
| Sample<br>Description / Type    | Drinking water                      | Sampling Done by                  | Laboratory  |
| Sampling Location               | Near Office Area<br>(Bisleri Water) | Sample<br>Quantity / Packing      | 2L X 1 No. PVC Can<br>500 mL X 1 No. PVC Can<br>250 mL X 1 No. Sterilized Glass<br>Bottle |
| Date of Sampling                | 02.12.2023                          | Date of Receipt of<br>Sample      | 03.12.2023  |
| Sampling Procedure              | IS:3025 (Part I); IS                | 1622; APHA 24* Ed. 2023           | 1060-B, 9060 A  |
| Date of Start of<br>Analysis    | 03.12.2023                          | Date of Completion of<br>Analysis | 09.12.2023  |

| Sr.<br>No. | Parameter  | Unit  | Result            | #Limit     | \$Limit       | Method Reference                |
|------------|--|-------|-------------------|------------|---------------|---------------------------------|
|            | Discipline: Chemical<br>Testing: Product<br>Group: Water (Drinking<br>Water) |       |                   |            |               |                                 |
| 1.         | Colour   | Hazen | BQL<br>(LOQ:1)    | 5 Max.     | 15 Max.       | APHA 24th Ed. 2023, 2120-B      |
| 2          | Odour  |       | Agreeable         | Agreeable  | Agreeable     | IS 3025 (Part 05):2018          |
| 3.         | Turbidity  | NTU   | 0.1               | 1 Max.     | 5 Max         | APHA 24th Ed. 2023, 2130-B      |
| 4.         | pH   |       | 6.7               | 6.5 to 8.5 | No Relaxation | APHA 24th Ed. 2023, 4500-H*-B   |
| 5.         | Free Chlorine (Residual)   | mg/L  | BQL<br>(LOQ:0.05) | 0.2 Min.   | 1.0 Min.      | APHA 24th Ed. 2023, 4500-Cl G   |
| 6.         | Total Suspended Solids   | mg/L  | BQL<br>(LOQ:5)    | 5          | 12            | APHA 24th Ed. 2023, 2540-0      |
| 7.         | Total Dissolved Solids   | mg/L  | 24                | 500 Max.   | 2000 Max.     | IS 3025 (Part 16):2023          |
| 8.         | Alkalinity Total (as CaCO <sub>3</sub> )                                     | mg/L  | 20                | 200 Max.   | 600 Max.      | APHA 24th Ed. 2023, 2320-B      |
| 9.         | Total Hardness (as CaCO <sub>3</sub> )                                       | mg/L  | 15                | 200 Max.   | 600 Max.      | APHA 24th Ed. 2023, 2340-C      |
| 10.        | Chloride (as Cl)   | mg/L  | 5.0               | 250 Max    | 1000 Max.     | APHA 24th Ed. 2023, 4500-CI-B   |
| 11.        | Sulphate (as SO <sub>4</sub> )   | mg/L  | 2.3               | 200 Max.   | 400 Max.      | APHA 24th Ed. 2023, 4500- SO4-E |
| 12         | Nitrate (as NO <sub>2</sub> )  | mg/L  | 1.27              | 45 Max     | No Relaxation | APHA 24th Ed. 2023, 4500-NO3-8  |

Page 1 of 2 QF/SALE/02 Issue No 03 Date 05.12.2019 Amd 03 Date

18.07.2023

Reviewed and authorised by

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Harish Mendhi

Chemical Testing

Reviewed and authorised by

un

Pranali Kurve Technical Manager Technical Manager **Biological Testing** 







**MRS** 

Mahabal Enviro Engineers Pvt. Ltd.

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# **TEST REPORT**

| ŝ          | R   | eport No.: | ME-019723 | 1203   |               |                        | Date: 11.12.2023    |
|------------|---|------------|-----------|--|---------------|------------------------|---------------------|
| ULR No.    |   |            | TC7487230 |  |               |                        |                     |
| Sr.<br>No. | Parameter   | Unit       | Result    | #Limit   | SLimit        | Method Re              | ference             |
| 13.        | Calcium (as Ca)   | mg/L       | 3.6       | 75 Max   | 200 Max.      | APHA 24th              | Ed 2023, 3500-Ca-B  |
| 14.        | Magnesium (as Mg)   | mg/L       | 1.5       | 30 Max.  | 100 Max.      | APHA 24th              | Ed 2023, 3500-Mg-B  |
| 15.        | Fluoride (as F)   | mg/L       | 0.20      | 1 Max  | 1.5 Max.      | APHA 24th              | Ed. 2023, 4500-F, D |
|            | Product Group:<br>Residues in water   |            |           |  |               |                        |                     |
| 16.        | Iron (as Fe)  | mg/L       | 0.049     | 1.0 Max.   | No Relaxation | IS:3025 (Part 2), 2019 |                     |
|            | Discipline: Biological<br>Testing; Product<br>Group: Water (Drinkin<br>water) |            |           |  |               |                        |                     |
| 17.        | Total Coliforms   | /100mL     | Absent    | Shail not be<br>detectable in<br>any 100 mL<br>Sample. | 6             | IS 15185-20            | 016                 |
| 18.        | Escherichia coli  | /100mL     | Absent    | Shall not be<br>detectable in<br>any 100 mL<br>Sample. | 1.            | IS 15185-20            | 016                 |

#### END OF REPORT

Note: 1. BQL: Below Quantification Limit

- 2. LOQ: Limit of Quantification.
- 3. #: Acceptable Limit as per IS 10500.2012; RA 2018.
- Permissible Limit in the Absence of Alternate Source as per IS 10500:2012 RA 2018
- The result listed refers only to the tested sample(s) and applicable parameter(s). 5
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Page 2 of 2 QF/SALE/02 Issue No 03 Date 05.12.2019 Amd 03 Date 18.07.2023

Reviewed and authorised by

Harish Mendhi Technical Manager Technical Manager Chemical Testing

Reviewed and authorised by









Mahabal Enviro Engineers Pvt. Ltd.

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# TEST REPORT

| 400 - 7                         | Report No.        | ME-0198231203                             |  | Date: 11.12.2023 |
|---------------------------------|-------------------|---|--|------------------|
|                                 | ULR No.:          | TC748723000019612F                        |  |                  |
| Name and<br>Address of Customer | "MIRACLE"         | ESIDENTIAL PROJECT<br>oli, Tal: Bhiwandi, | WO No.: Verba<br>WO Date: 05.10  |                  |
| Sample<br>Description / Type    | Drinking water    | Sampling Done by                          | Laboratory   |                  |
| Sampling Location               | Labour Camp       | Sample<br>Quantity / Packing              | 2L X 1 No. PVC Can<br>500 mL X 1 No. PVC Can<br>250 mL X 1 No. Sterilized Glas<br>Bottle |                  |
| Date of Sampling                | 02.12.2023        | Date of Receipt of<br>Sample              | 22.013/021   |                  |
| Sampling Procedure              | IS:3025 (Part I); | IS 1622; APHA 24" Ed. 202                 | 3, 1060-B, 9060 A  |                  |
| Date of Start of<br>Analysis    | 03.12.2023        | Date of Completion of<br>Analysis         | 09.12.2023   |                  |
|                                 |                   |   |  |                  |

| Sr.<br>No. | Parameter  | Unit  | Result            | ØLimit     | \$Limit       | Method Reference                            |
|------------|--|-------|-------------------|------------|---------------|---|
|            | Discipline: Chemical<br>Testing: Product<br>Group: Water (Drinking<br>Water) |       |                   |            |               |   |
| 1.         | Colour   | Hazen | BQL<br>(LOQ:1)    | 5 Max      | 15 Max.       | APHA 24th Ed. 2023; 2120-B                  |
| 2.         | Odour  | 1.0   | Agreeable         | Agreeable  | Agreeable     | IS 3025 (Part 05):2018                      |
| 3.         | Turbidity  | NTU   | 0.2               | 1 Max.     | 5 Max.        | APHA 24th Ed. 2023, 2130-B                  |
| 4.         | pH   | 18    | 7.5               | 6.5 to 8.5 | No Relaxation | APHA 24th Ed. 2023, 4500-H*-B               |
| 5.         | Free Chlorine (Residual)   | mg/L  | BQL<br>(LOQ:0.05) | 0.2 Min    | 1.0 Min.      | APHA 24th Ed. 2023, 4500-CI G               |
| 6          | Total Suspended Solids   | mg/L  | BQL<br>(LOQ:5)    | 3          | 84            | APHA 24th Ed. 2023, 2540-D                  |
| 7.         | Total Dissolved Solids   | mg/L  | 69                | 500 Max.   | 2000 Max.     | IS 3025 (Part 16):2023                      |
| 8          | Alkalinity Total (as CaCO <sub>3</sub> )                                     | mg/L  | 38                | 200 Max    | 600 Max.      | APHA 24th Ed. 2023, 2320-B                  |
| 9.         | Total Hardness (as CaCO <sub>3</sub> )                                       | mg/L  | 50                | 200 Max    | 600 Max.      | APHA 24th Ed. 2023; 2340-C                  |
| 10.        | Chloride (as Cl)   | mg/L  | 10.0              | 250 Max    | 1000 Max.     | APHA 24th Ed. 2023, 4500-CI-B               |
| 11.        | Sulphate (as SO <sub>4</sub> )   | mg/L  | 4.7               | 200 Max    | 400 Max.      | APHA 24th Ed. 2023, 4500- SO4-E             |
| 12.        | Nitrate (as NO3)   | mg/L  | 2.32              | 45 Max     | No Relaxation | APHA 24th Ed. 2023, 4500-NO <sub>7</sub> -B |

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Page 1 of 2 QF/SALE/02 Issue No 03 Date 05.12.2019 Amd 03 Date 18.07.2023

Harish Mendhi Technical Manager Technical Manager Chemical Testing

Pranali Kurve **Biological Testing** 





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# TEST REPORT

| 40         | R R   | leport No.: | ME-019823 | 1203   |               |             | Date: 11.12.2023    |
|------------|---|-------------|-----------|--|---------------|-------------|---------------------|
| ULR No     |   |             | TC7487230 |  | 6             |             |                     |
| Sr.<br>No. | Parameter   | Unit        | Result    | #Limit   | \$Limit       | Method Re   | iference            |
| 13.        | Calcium (as Ca)   | mg/L        | 12.0      | 75 Max.  | 200 Max.      | APHA 24th   | Ed. 2023, 3500-Ca-B |
| 14.        | Magnesium (as Mg)   | mg/L        | 4.9       | 30 Max.  | 100 Max.      | APHA 24th   | Ed. 2023, 3500-Mg-B |
| 15.        | Fluoride (as F)   | mg/L        | 0.38      | 1 Max  | 1.5 Max.      | APHA 24th   | Ed. 2023, 4500-F, D |
|            | Product Group:<br>Residues in water   |             |           |  |               |             |                     |
| 16.        | Iron (as Fe)  | mg/L        | 0.030     | 1.0 Max.   | No Relaxation | IS:3025 (Pa | art 2), 2019        |
|            | Discipline: Biologica<br>Testing: Product<br>Group: Water (Drinki<br>water) |             |           |  |               |             |                     |
| 17.        | Total Coliforms   | /100mL      | . Absent  | Shall not be<br>detectable in<br>any 100 mL<br>Sample  | 32            | IS 151852   | 016                 |
| 18         | Escherichia coli  | /100mL      | . Absent  | Shall not be<br>detectable in<br>any 100 mL<br>Sample. | 2             | IS 151852   | 016                 |

#### END OF REPORT

1. BQL: Below Quantification Limit. Note:

- 2. LOQ: Limit of Quantification.
- 3. #: Acceptable Limit as per IS 10500:2012; RA 2018.
- Permissible Limit in the Absence of Alternate Source as per IS 10500:2012 RA 2018
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# TEST REPORT

| hand a Vig hand.                |                                   |  |                             |                |
|---------------------------------|-----------------------------------|--|-----------------------------|----------------|
| 1925                            | Report No.:                       | ME-0200231203  | Date: 16.12.2023            |                |
|                                 | ULR No.: TC748723000019614F       |  |                             | 27             |
| Name and<br>Address of Customer |                                   | ESIDENTIAL PROJECT<br>illage: Ranjnoli,<br>, Dist: Thane | WO No.: Ver<br>WO Date: 01. | bal<br>12.2023 |
| Sample<br>Description / Type    | Soil                              | Sampling Done by   | Laboratory                  |                |
| Sampling Location               | Near Site Area                    | Sample<br>Quantity / Packing                             | 1 kg X 1 No. Polyethene bag |                |
| Date of Sampling                | 02.12.2023                        | Date of Receipt of<br>Sample                             | 03.12.2023                  |                |
| Sampling Procedure              | Manual of Soil<br>Agriculture, Go | Testing, Department of Agric<br>ovt. India               | ulture & Cooperatio         | n, Ministry of |
| Date of Start of<br>Analysis    | 07.12.2023                        | Date of Completion of<br>Analysis                        | 13.12.2023                  |                |

| Sr.<br>No. | Parameter  | Unit      | Result | Method Reference   |
|------------|--|-----------|--------|--|
|            | Discipline: Chemical<br>Testing: Product Group:<br>Pollution & Environment<br>(Soil) |           |        | 117  |
| 1.         | pH (1+5)   | (#C)      | 7.3    | Physical and Chemical methods of Soil and Water Analysis<br>Food and Agriculture Organization of the United Nations<br>(FAO) Sec. III, 1, Page No 65, 1984   |
| 2.         | Electrical Conductivity (1+5)  | μS/cm     | 57.5   | Physical and Chemical methods of Soil and Water Analysis<br>Food and Agriculture Organization of the United Nations<br>(FAO) Sec. III, 5 Page No 85: 1984  |
| 3.         | Moisture Content   | %         | 13.0   | IS 2720 (Part - II): 1973  |
| 4:         | Cation Exchange Capacity   | meq/100gm | 46     | Physical and Chemical methods of Soil and Water Analysis<br>Food and Agriculture Organization of the United Nations<br>(FAO) Sec. III 7-2, Sodium Saturation Flame Photometry<br>Method Page No. 104: 1984 |
| 5.         | Organic Matter   | %         | 0.628  | Manual of Soil Testing, Department of Agriculture &<br>Cooperation, Ministry of Agriculture, Govt. India, Sec.4 -17,<br>Page No 83: 2011   |
| 6.         | Grain Size (Texture) Sand  | %         | 37.7   | Manual of Soil Testing Department of Agriculture &<br>Cooperation, Ministry of Agriculture Govt. India: 2011   |
| 7,         | Grain Size (Texture) Silt  | %         | 28.7   | Manual of Soil Testing Department of Agriculture &<br>Cooperation, Ministry of Agriculture Govt. India: 2011   |
| 8.         | Grain Size (Texture) Clay  | %         | 33.6   | Manual of Soil Testing Department of Agriculture &<br>Cooperation, Ministry of Agriculture Govt. India: 2011   |

Page 1 of 2 QF/SALE/02 Issue No 03 Date 05 12 2019. Amd 03 Date 18.07.2023 Reviewed and authorised by





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# TEST REPORT

| COLUMN COLUMN  |
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| 2345       |                   | Report No.           | ME-020023  | 1203         |   | Date: 16.12.2023  |  |
|------------|-------------------|----------------------|------------|--------------|---|---|--|
| d,         |                   | ULR No               | TC7487230  |              | **  | 0815 10.12.2023   |  |
| 12 -1      | ALCONT A          | State of the reserve |            |              |   |   |  |
| Sr.<br>No. | Parameter         |                      | Unit       | Result       | Method Reference  |   |  |
| 9.         | Texture (Class)   |                      | %          | Clay<br>Loam | Manual of Soil Testing Dep<br>Cooperation, Ministry of Ag   |   |  |
| 10         | Available Phosp   | horous               | mg/kg      | 12.2         | Physical and Chemical methods of Soil and W<br>Food and Agriculture Organization of the Units<br>(FAO) Sec. III, 12 – 1, Sodium Bicarbonate E)<br>Otsen Blue Method Page No 157 : 1984      |   |  |
| 11.        | Total Phosphate   | E                    | mg/kg      | 592          | Manual for method of water, Soil and Plant analysis<br>Page No 16: 2006   |   |  |
| 12         | Available Calciu  | m                    | meq/100gm  | 32.8         | Physical and Chemical methods of Soil and Wate<br>Food and Agriculture Organization of the United N<br>(FAO) Sec. III, 8 - 1 Ammonium Acetate Extractio<br>Method, Page No. 115: 1984       |   |  |
| 13.        | Available Magne   | sium                 | meq/ 100gm | 12.0         | Physical and Chemical methods of Soil and Wat<br>Food and Agriculture Organization of the United<br>(FAO) Sec. III, 8 - 1 Ammonium Acetate Extracti<br>Method, Page No. 115: 1984           |   |  |
| 14.        | Available Sodiur  | n                    | meq/100gm  | 0.978        | Physical and Chemical methods of Soil and Wa<br>Food and Agriculture Organization of the United<br>(FAO) Sec. III, 8 - 1 Ammonium Acetate Extract<br>Photometric Method, Page No. 115: 1984 |   |  |
| 15         | Available Nitroge | in .                 | mg/kg      | 224          | Manual of Soil Testing, Dep<br>Cooperation, Ministry of Ag<br>Page No 89: 2011  | artment of Agriculture &<br>riculture, Govt. India, Sec.4 -17   |  |
| 16         | Available Potass  | ium                  | meq/100gm  | 0.300        | Food and Agriculture Organ  | hods of Soil and Water Analysis<br>ization of the United Nations<br>ium Acetate Extraction Flame<br>No. 115: 1984 |  |
| 17         | Total Copper      |                      | mg/kg      | 118          | US EPA/SW 846 Method 3  | 050B:1996, 7000B Rev.02: 200  |  |
| 18         | Total Iron        |                      | mg/kg      | 42670        | US EPA/SW 846 Method 3  | 0508:1996, 70008 Rev.02: 200  |  |
| 19,        | Total Zinc        |                      | mg/kg      | 50.4         | US EPA/SW 846 Method 30   | 50B 1996, 7000B Rev.02: 200   |  |

#### END OF REPORT

Note: 1. BQL: Below Quantification Limit.

- 2. LOQ Limit of Quantification.
- 3. All results are expressed as received basis.
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# TEST REPORT

|                                 | 11                                |   |                             | J. J.            |
|---------------------------------|-----------------------------------|---|-----------------------------|------------------|
| 23.44                           | Report No.:                       | ME-0200231203N  |                             | Date: 16 12 2023 |
|                                 | ULR No                            | •   |                             |                  |
| Name and<br>Address of Customer |                                   | ESIDENTIAL PROJECT<br>'illage: Ranjnoli,<br>, Dist: Thane | WO No.: Ver<br>WO Date: 01. | bal<br>12.2023   |
| Sample<br>Description / Type    | Soil                              | Sampling Done by  | Laboratory                  |                  |
| Sampling Location               | Near Site Area                    | Sample<br>Quantity / Packing                              | 1 kg X 1 No. Polyethene bag |                  |
| Date of Sampling                | 02.12.2023                        | Date of Receipt of 03.12.2023<br>Sample                   |                             |                  |
| Sampling Procedure              | Manual of Soil<br>Agriculture, Go | Testing, Department of Agric<br>vt. India                 | ulture & Cooperation        | n, Ministry of   |
| Date of Start of<br>Analysis    | 07.12.2023                        | Date of Completion of<br>Analysis                         | 13.12.2023                  |                  |

| Sr.<br>No. | Parameter  | Unit  | Result            | Method Reference                                    |
|------------|--|-------|-------------------|---|
|            | Discipline: Chemical<br>Testing; Product Group:<br>Pollution & Environment<br>(Soil) |       |                   |   |
| 1.         | Free Lime  | %     | 0.166             | FAO Sec. III. Page no-71                            |
| 2.         | Total Sulphur  | %     | BQL<br>(LOQ:0.05) | ASTM D 4239-18                                      |
| 3.         | Total Manganese  | mg/kg | 1433              | US EPA/SW 846 Method 30508 1996, 70008 Rev 02. 2007 |

#### END OF REPORT

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| 25820658<br>Contact Pho            |                              | 93240-2<br>Ganesh       | Naik      | 99303-305790<br>Ajeet Kumar  | 93239-5<br>R 8 Mat | labal      |
|------------------------------------|------------------------------|-------------------------|-----------|--|--------------------|------------|
| mahabal60@                         | yahoo.com                    | ganesh3300@y            | yahoo.com | mee.mpcb@gmai.com  | raghunath@ma       | shabal.com |
|                                    | vironmental Mo               | 1 1 1 1 1 1 1 1 1 1 1 T |           | 2. Construction of the state of | nthly)             |            |
| Survey Team<br>Mobile No.          | Sushani<br>23690             |                         | + saga    | V Sable  |                    |            |
| Ref.No                             |                              |                         |           | Date   | 3/2/               | -2023      |
| Client Propos                      | Proposed Residential Project |                         |           | Mr. Vardhan S  | hanmugam           |            |
| The set has sheet                  | " Village: Ranjno            |                         | Post      | Safety Officer   |                    |            |
| Tal: Bh                            | iwandi, Dist: Tha            | ne                      | Mobile    | 9962826106   |                    |            |
|                                    |                              |                         | E-Mail    | VARADHAN, SHAN   | MUGAM@mahing       | ra.com     |
| Board                              |                              |                         | Direct    |  | 010101010000000    |            |
|                                    |                              |                         |           |  |                    |            |
| Extri,                             |                              |                         | Fax       |  |                    |            |
|                                    |                              | SURVEY                  | DETAILS   |  | 2000 100           |            |
| Sample from                        | Quantity                     | Survey                  | y Date    | Arrival time   | Departu            | ire time   |
| Stack                              | 01 01                        |                         |           |  |                    |            |
| Ambient                            | 01 01                        |                         |           |  |                    |            |
| Noise                              | 0.2 02                       | 3/11                    | 24        |  |                    |            |
| Work room                          |                              | 212                     | 124       |  | · · ·              |            |
| Effluent                           |                              |                         |           |  |                    |            |
| Water Swimping<br>Haz, Waste(Smil) | 01 01                        | 11                      |           |  |                    |            |
| Meteorology                        | 01                           |                         |           |  |                    |            |

Meteorology Other

From Client: Feedback / Complaint / Instructions (you can also send them by fax)

Name: Shanmugam

Signature: INTERNAL USE

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# TEST REPORT

| E 650 E                      |   |                                   |  |                                |
|------------------------------|---|-----------------------------------|--|--------------------------------|
| 15 AV                        | Report No : N                             | E-0258240204                      |  | Date:08.02.2024                |
| 高兴                           | ULR No. T                                 | C748724000002084F                 |  |                                |
| AA opposite                  | 1.0000000000000000000000000000000000000   |                                   | Designation of the second  | 100                            |
| Address of Customer          | [2] 2] 2] 2] 2] 2] 2] 2] 2] 2] 2] 2] 2] 2 |                                   | WO No : Verbal<br>WO Date: 02.02 2024  |                                |
| Sample<br>Description / Type | Ambient Air                               | Sampling Done by                  | Laboratory   |                                |
| Sampling Location            | Near Main Ga                              | te Sample<br>Quantity / Packing   | PM <sub>10</sub> Filter Pape<br>PM <sub>2.5</sub> : Filter Pap<br>SO <sub>2</sub> :30 mL X 2<br>NO <sub>2</sub> :30 mL X 2 | er 1 X 1 No.<br>No. PVC Bottle |
| Date of Sampling             | 03.02.2024                                | Date of Receipt of Sample         | 04.02.2024   |                                |
| Sampling Procedure           | As per metho                              | i reference                       | Longe to the second             |                                |
| Date of Start of<br>Analysis | 05.02.2024                                | Date of Completion of<br>Analysis | 06.02.2024   |                                |
| California and California    |   |                                   |  |                                |

| Sr.<br>No. | Parameter   | Unit              | Result | #NAAQS | Method Reference  |
|------------|---|-------------------|--------|--------|---|
|            | Discipline: Chemical<br>Testing: Product Group:<br>Atmospheric Pollution<br>(Ambient Air) |                   |        |        |   |
| 1          | Sulphur Dioxide (SO <sub>2</sub> )  | µg/m³             | 17.6   | 80     | CPCB Guidelines for the Measurement of Ambient<br>Air Pollutants, Volume I, 2012-13, Page No.1-6    |
| 2          | Nitrogen Dioxide (NO <sub>2</sub> )   | µg/m <sup>3</sup> | 20.9   | 80     | CPCB Guidelines for the Measurement of Ambient<br>Air Pollutants, Volume I, 2012-13, Page No.7-10   |
| 3          | Particulate Matter (size less than 10µm) or PM <sub>10</sub>                              | µg/m <sup>3</sup> | 55     | 100    | CPCB Guidelines for the Measurement of Ambient<br>Air Pollutants, Volume I, 2012-13, Page No. 11-14 |
| 4          | Particulate Matter (size less than 2.5µm) or PM25   | µg/m³             | 27     | 60     | CPCB Guidelines for the Measurement of Ambient<br>Air Pollutants, Volume I, 2012-13, Page No. 15-30 |

#### END OF REPORT

1. BQL: Below Quantification Limit. Note:

- 2. LOQ: Limit of Quantification.
- 3. Duration of Sampling: 08h.
- 4. TWA: Time Weighted Average
- 5. NAAQS: National Ambient Air Quality Standard
- 6. #- NAAQS specified as: 8 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM10, PM2.5.
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Sagar Yeul Dy. Technical Manager Chemical Testing









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# TEST REPORT



| Sr.<br>No. | Parameter                                  | Unit              | Result           | #NAAQS | Method Reference  |
|------------|--|-------------------|------------------|--------|---|
| 7          | Benzo(a)Pyrene<br>(Particulate phase only) | ng/m <sup>3</sup> | BQL<br>(LOQ 0.5) | 01     | CPCB Guidelines for the Measurement of<br>Ambient Air Pollutants, Volume I, 2012-13, Page<br>No.40-47 |

#### END OF REPORT

Note: 1. BQL: Below Quantification Limit.

- 2. LOQ: Limit of Quantification.
- 3. Duration of Sampling: 24h
- 4. TWA: Time Weighted Average
- 5 NAAQS: National Ambient Air Quality Standard
- #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>10</sub>, PM<sub>2.5</sub>, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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Technical Manager Chemical Testing







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## TEST REPORT

| 101.14                          | Report No. | ME-0262240204                   |                                 | Date: 08.02.2024  |
|---------------------------------|------------|---------------------------------|---------------------------------|---|
|                                 | ULR No.    | TC748724000002088F              |                                 |   |
| Name and<br>Address of Customer | "MIRACLE   | anjnoli, Tal: Bhiwandi,         | WO No.: Verba<br>WO Date: 02.02 | a second s |
| Sample<br>Description / Type    | Ambient No | bise                            |                                 |   |
| Date of Sampling                | 03.02.2024 |                                 |                                 |   |
| Sampling Procedure              | CPCB Prot  | ocol for Ambient level Noise Mo | nitoring 2015                   |   |

| Sr. | Location  | Time in h | Sound Leve       | el L <sub>eq</sub> dB (A) | Time in h | Sound Leve       | A Log dB (A)     |
|-----|---|-----------|------------------|---------------------------|-----------|------------------|------------------|
| No. |   | (day)     | Fast<br>Response | Slow<br>Response          | (Night)   | Fast<br>Response | Slow<br>Response |
|     | Discipline: Chemical<br>Testing; Product Group:<br>Atmospheric Pollution<br>(Ambient Noise) |           |                  |                           |           |                  |                  |
| 1.  | Project West Side   | 12:35     | 67.3             | 66.7                      | 24        | , ú              | 142              |
| 2   | Near Main Gate  | 12:05     | 67.6             | 65.3                      |           | -                | 143              |

| Area Code | Area Type        | Limits in dB (A)                     | weighted scale                          |
|-----------|------------------|--------------------------------------|---|
|           |                  | Day Time<br>(6 00a.m. to 10:00 p.m.) | Night Time<br>(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                                      |

#### END OF REPORT

Note: 1. The result listed refers only to the tested sample(s) and applicable parameter(s).

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Page 1 of 1 QF/SALE/05A Issue No 03 Date 05 12 2019 Amd 04 Date 11 01 2024

113-5 123

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Sagar Yeul Dy Technical Manager Chemical Testing









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

|                              |                              |  | Date: 08.02.2024   |  |  |
|------------------------------|------------------------------|--|--|--|--|
| 524 <u>555</u>               | Report No.:                  | Report No.: ME-0259240204                                    |  |  |  |
|                              | ULR No.:                     | TC748724000002085F   |  |  |  |
| of Customer "MIRACI          |                              | RESIDENTIAL PROJECT<br>Village: Ranjnoli,<br>II, Dist: Thane | WO No.: Verbal<br>WO Date: 02.02.2024                          |  |  |
| Sample<br>Description / Type | Stack Emissio                | on Sampling Done by  | Laboratory   |  |  |
| Sampling Location            | D.G. Set 160<br>Near Sales O |  | Thimble PM: 1 X 1 No.<br>SO <sub>2</sub> 30mL X 1No PVC Bottle |  |  |
| Date of Sampling             | 03.02.2024                   | Date of Receipt of Sample                                    | 04.02.2024   |  |  |
| Sampling Procedure           | As per metho                 | d reference  |  |  |  |
| Date of<br>Start of Analysis | 05.02.2024                   | Date of Completion of<br>Analysis                            | 06.02.2024   |  |  |

| Stack Details                           |                  |  |
|---|------------------|--|
| Stack Identity                          | Stack -1         |  |
| Stack attached to                       | D.G. Set 160 kVA |  |
| Material of construction                | M.S.             |  |
| Stack height above ground level (Meter) | 3                |  |
| Stack diameter (Meter)                  | 0.10             |  |
| Stack shape at top                      | Round            |  |
| Type of fuel                            | Diesel           |  |
| Fuel Consumption (L/h)                  | 3                |  |

| Sr.<br>No. | Parameter   | Unit               | Result | Method Reference       |
|------------|---|--------------------|--------|------------------------|
|            | Discipline: Chemical Testing;<br>Product Group: Atmospheric<br>Pollution (Stack Emission) |                    |        |                        |
| 1          | Flue gas Temperature  | °C                 | 145    | IS 11255 (Part 3) 2008 |
| 2          | Flue gas Velocity   | m/s                | 10.9   | IS 11255 (Part 3):2008 |
| 3          | Flue Gas Flow Rate  | Nm <sup>3</sup> /h | 218    | IS 11255 (Part 3):2008 |
| 4          | Particulate Matter (PM)   | mg/Nm <sup>3</sup> | 25     | IS 11255 (Part 1):1965 |
| 5          | Sulphur Dioxide (SO2)   | mg/Nm <sup>3</sup> | 20     | IS 11255 (Part 2):1985 |

#### END OF REPORT

Page 1 of 2 QF/SALE/04 Issue No 03 Date 05.12.2019. Amd 03 Date 18 07.2023 Reviewed and authorised by

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# TEST REPORT



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## TEST REPORT

|                                 | TEST REPORT   |  |  |                     |  |
|---------------------------------|---------------|--|--|---------------------|--|
| 40.4                            | Report No     | ME-0261240204                                |  | Date: 10.02.2024    |  |
|                                 | ULR No.       | TC748724000002087F                           |  |                     |  |
| Name and<br>Address of Customer | "MIRACLE"     | RESIDENTIAL PROJECT<br>jnoli, Tal: Bhiwandi, | WO No. Verbal<br>WO Date: 04.01.2024                       |                     |  |
| Sample<br>Description / Type    | Drinking wate | r Sampling Done by                           | Laboratory   | 1                   |  |
| Sampling Location               | Labour Camp   | Sample<br>Quantity / Packing                 | 2L X 1 No. PVC<br>500 mL X 1 No<br>250 mL X 1 No<br>Bottle | 이 같이 가 안 다 있는 것 같아. |  |
| Date of Sampling                | 03.02.2024    | Date of Receipt of<br>Sample                 | 04.02.2024   |                     |  |
| Sampling Procedure              | IS:3025 (Part | I); IS 1622, APHA 24* Ed. 2023               | 3, 1060-B, 9060 A  |                     |  |
| Date of Start of<br>Analysis    | 04.02.2024    | Date of Completion of<br>Analysis            | 09.02.2024   |                     |  |
|                                 |               |  |  |                     |  |

| Sr.<br>No. | Parameter  | Unit  | Result            | #Limit     | SLimit        | Method Reference               |
|------------|--|-------|-------------------|------------|---------------|--------------------------------|
|            | Discipline: Chemical<br>Testing: Product<br>Group: Water (Drinking<br>Water) |       |                   |            |               |                                |
| 1.         | Colour   | Hazen | BQL<br>(LOQ:1)    | 5 Max.     | 15 Max.       | APHA 24* Ed. 2023, 2120-8      |
| 2          | Odour  |       | Agreeable         | Agreeable  | Agreeable     | IS 3025 (Part 05) 2018         |
| 3          | Turbidity  | NTU   | 0.2               | 1 Max.     | 5 Max.        | APHA 24* Ed. 2023, 2130-B      |
| 4.         | pН   | 10    | 7.8               | 6.5 to 8.5 | No Relaxation | APHA 24* Ed. 2023, 4500-H*-B   |
| 5.         | Free Chlorine (Residual)   | mg/L  | BQL<br>(LOQ 0.05) | 0.2 Min.   | 1.0 Min.      | APHA 24* Ed. 2023, 4500-CI G   |
| 6,         | Total Suspended Solids   | mg/L  | BQL<br>(LOQ:5)    | 2          | 14            | APHA 24* Ed. 2023, 2540-D      |
| 7.         | Total Dissolved Solids   | mg/L  | 88                | 500 Max    | 2000 Max      | IS 3025 (Part 16):2023         |
| B          | Alkalinity Total (as<br>CaCO <sub>3</sub> )                                  | mg/L  | 54                | 200 Max.   | 600 Max.      | APHA 24th Ed. 2023, 2320-B     |
| 9.         | Total Hardness (as<br>CaCO <sub>3</sub> )                                    | mg/L  | 62                | 200 Мах.   | 600 Max.      | APHA 24th Ed. 2023, 2340-C     |
| 10.        | Chloride (as CI)   | mg/L  | 11.0              | 250 Max    | 1000 Max      | APHA 24h Ed. 2023, 4500-CI-B   |
| 11.        | Sulphate (as SO4)  | mg/L  | 2.54              | 200 Max    | 400 Max.      | APHA 244 Ed. 2023, 4500- SO4-E |
| 12.        | Nitrate (as NO <sub>3</sub> )  | mg/L  | 2.15              | 45 Max     | No Relaxation | APHA 24th Ed. 2023, 4500-NO2-B |

Page 1 of 2 QF/SALE/02 Issue No 03 Date 05.12.2019. Amd 03 Date 18.07 2023

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Harish Mendhi Technical Manager Technical Manager Chemical Testing

Reviewed and authorised by

**Biological Testing** 





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### TEST REPORT

| Report No.:<br>ULR No.: |   | ME-0261240204 |                    |  |               | Date: 10.02.2024             |                     |
|-------------------------|---|---------------|--------------------|--|---------------|------------------------------|---------------------|
|                         |   | LR No         | TC748724000002087F |  |               |                              | ines y              |
| Sr.<br>No.              | Parameter   | Unit          | Result             | #Limit   | \$Limit       | Method Re                    | ference             |
| 13. Calcium (as Ca)     |   | mg/L          | 13.6               | 75 Max   | 200 Max.      | APHA 24# Ed. 2023, 3500-Ca-8 |                     |
| 14.                     | Magnesium (as Mg)   | mg/L          | 6.80               | 30 Max.  | 100 Max       | APHA 24P                     | Ed. 2023. 3500-Mg-B |
| 15.                     | Fluoride (as F)   | mg/L          | 0.32               | 1 Max  | 1.5 Max.      | APHA 24*                     | Ed. 2023, 4500-F, D |
|                         | Product Group:<br>Residues in water   |               |                    |  |               |                              |                     |
| 16                      | Iron (as Fe)  | mg/L          | BQL<br>(LOQ:0.03)  | 1.0 Max.   | No Relaxation | IS:3025 (Part 2), 2019       |                     |
|                         | Discipline: Biologica<br>Testing: Product<br>Group: Water (Drinki<br>water) |               |                    |  |               |                              |                     |
| 17                      | Total Coliforms   | /100mL        | Absent             | Shall not be<br>detectable in<br>any 100 mL<br>Sample  |               | IS 15185.2                   | 016                 |
| 18                      | Escherichia coli  | /100mL        | Absent             | Shail not be<br>detectable in<br>any 100 mL<br>Sample. | i             | IS 15185:2016                |                     |

#### END OF REPORT

Note: 1. BQL: Below Quantification Limit.

**MPAGE** 

- 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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Mulaz

Harish Mendhi Technical Manager Chemical Testing Reviewed and authorised by



Pranali Kurve Technical Manager Biological Testing CHVIRO ENC







Mahabal Enviro Engineers Pvt. Ltd.

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### TEST REPORT

| 28         | E State   | Report No.:                 | ME-0260240        | 204   |               |                       | Date: 10.02.2024    |
|------------|---|-----------------------------|-------------------|---|---------------|-----------------------|---------------------|
|            | 1261  | ULR No : TC748724000002086F |                   |   |               |                       | 21                  |
| Sr.<br>No. | Parameter   | Unit                        | Result            | #Limit  | \$Limit       | Method Re             | iference            |
| 13.        | Calcium (as Ca)   | mg/L                        | 2.41              | 75 Max  | 200 Max.      | AFHA 24#              | Ed 2023, 3500-Ca-B  |
| 14         | Magnesium (as Mg)   | mg/L                        | 1.46              | 30 Max  | 100 Max.      | APHA 24 <sup>th</sup> | Ed. 2023, 3500-Mg-8 |
| 15         | Fluoride (as F)   | mg/L                        | 0.18              | 1 Max   | 1.5 Max.      |                       | Ed 2023, 4500-F, D  |
|            | Product Group:<br>Residues in water   |                             |                   |   |               |                       |                     |
| 16         | Iron (as Fe)  | mg/L                        | BQL<br>(LOQ.0.03) | 1.0 Max.  | No Relaxation | IS:3025 (Pa           | art 2), 2019        |
|            | Discipline: Biologica<br>Testing: Product<br>Group: Water (Drinki<br>water) |                             |                   |   |               |                       |                     |
| 17.        | Total Coliforms   | /100mL                      | Absent            | Shall not be detectable in<br>any 100 mL<br>Sample    |               | IS 15185 20           | 016                 |
| 18.        | Escherichia coli  | /100mL                      | Absent            | Shall not be<br>detectable in<br>any 100 mL<br>Sample | 57            | IS 15185-20           | 116                 |

#### END OF REPORT

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## TEST REPORT

| 400.00                          | Report No                            | ME-0263240204                             |                               | Date 15.02 2024 |
|---------------------------------|--------------------------------------|---|-------------------------------|-----------------|
|                                 | ULR No :                             | TC748724000002089F                        |                               | 121             |
| Name and<br>Address of Customer | "MIRACLE"                            | ESIDENTIAL PROJECT<br>oli, Tal: Bhiwandi, | WO No.: Vert<br>WO Date: 01.0 |                 |
| Sample<br>Description / Type    | Soil                                 | Sampling Done by                          | Laboratory                    | E               |
| Sampling Location               | Near Site Area                       | Sample<br>Quantity / Packing              | 1 kg X 1 No. Po               | olyethene bag   |
| Date of Sampling                | 03.02.2024                           | Date of Receipt of<br>Sample              | 04.02.2024                    |                 |
| Sampling Procedure              | Manual of Soil T<br>Agriculture, Gov | esting, Department of Agric<br>t. India   | ulture & Cooperatio           | on, Ministry of |
| Date of Start of<br>Analysis    | 07.02.2024                           | Date of Completion of<br>Analysis         | 13.02.2024                    |                 |

| Sr.<br>No. | Parameter  | Unit      | Result | Method Reference   |
|------------|--|-----------|--------|--|
|            | Discipline: Chemical<br>Testing: Product Group:<br>Pollution & Environment<br>(Soil) |           |        |  |
| 1.         | pH (1+5)   | •         | 8.0    | Physical and Chemical methods of Soil and Water Analysis<br>Food and Agriculture Organization of the United Nations<br>(FAO) Sec. III. 1, Page No 65, 1984   |
| 2          | Electrical Conductivity (1+5)  | μS/cm     | 73.4   | Physical and Chemical methods of Soil and Water Analysis<br>Food and Agriculture Organization of the United Nations<br>(FAO) Sec. III, 5 Page No.85: 1984  |
| 3          | Moisture Content   | %         | 18.9   | IS 2720 (Part - II): 1973  |
| 4.         | Cation Exchange Capacity   | meq/100gm | 39.0   | Physical and Chemical methods of Soil and Water Analysis<br>Food and Agriculture Organization of the United Nationa<br>(FAO) Sec. III 7-2. Sodium Saturation Fiame Photometry<br>Method Page No. 104: 1984 |
| 5          | Organic Matter   | %         | 0.698  | Manual of Soil Testing, Department of Agriculture &<br>Cooperation, Ministry of Agriculture, Govt. India, Sec.4-17,<br>Page No 83: 2011  |
| 6          | Grain Size (Texture) Sand  | %         | 37.7   | Manual of Soil Testing Department of Agriculture & Cooperation, Ministry of Agriculture Govt. India: 2011  |
| 7.         | Grain Size (Texture) Silt  | %         | 25.3   | Manual of Soli Testing Department of Agriculture &<br>Cooperation, Ministry of Agriculture Govt. India: 2011   |
| 8.         | Grain Size (Texture) Clay  | %         | 37.0   | Manual of Sol Testing Department of Agriculture &<br>Cooperation, Ministry of Agriculture Govt. India: 2011  |

Page 1 of 2 OF/SALE/02 Issue No 03 Date 05.12.2019. Arnd 03 Date 18.07.2023

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### TEST REPORT



|            | 20 II.            |           |            |              |   |   |
|------------|-------------------|-----------|------------|--------------|---|---|
| 42         | 22.X              | Report No | ME-026324  | 0204         |   | Date 15.02.2024   |
|            | 55 A              | ULR No    | TC7487240  | 000020896    | ÷   | and a   |
| Sr.<br>No. | Parameter         |           | Unit       | Result       | Method Reference  | 1   |
| 9.         | Texture (Class)   |           | %          | Clay<br>Loam | Manual of Sol Testing Dep<br>Cooperation, Ministry of Ag  | artment of Agriculture &<br>riculture Govt. India   |
| 10         | Available Phosp   | horous    | mg/kg      | 8.76         | Physical and Chemical met<br>Food and Agriculture Organ<br>(FAO) Sec. III, 12 – 1, Sodi<br>Olsen Blue Method Page N   | hods of Soil and Water Analysis<br>tization of the United Nations<br>um Bicarbonate Extraction<br>o. 157.: 1984   |
| 11.        | Total Phosphate   |           | mg/kg      | 390          | Manual for method of water<br>Page No 16: 2005  | Soil and Plant analysis WL II,  |
| 12         | Available Calciu  | m r       | neq/100gm  | 26.4         | Food and Agriculture Organ  | hods of Soll and Water Analysis<br>ization of the United Nations<br>ilum Acetate Extraction Titration<br>4        |
| 13         | Available Magne   | isium n   | neq/ 100gm | 11.6         | Food and Agriculture Organ  | hods of Soil and Water Analysis<br>ization of the United Nations<br>isum Acetate Extraction Titration<br>4        |
| 14.        | Available Sodiur  |           | neq/100gm  | 0.749        | Food and Agriculture Organ  | tods of Soil and Water Analysis<br>ization of the United Nations<br>ium Acetale Extraction Flame<br>No. 115: 1984 |
| 15.        | Available Nitroge |           | mg/kg      | 188          | Manual of Soil Testing, Depi<br>Cooperation, Ministry of Agr<br>Page No 89: 2011  | artment of Agriculture &<br>iculture, Govt. India, Sec.4 -17,   |
| 16.        | Available Potass  | ium n     | neg/100gm  | 0.108        | Food and Agriculture Organi   | ods of Soil and Water Analysis<br>ization of the United Nations<br>ium Acetate Extraction Flame<br>io. 115: 1984  |
| 17.        | Total Copper      |           | mg/kg      | 74.5         | the second se   | 50B 1996, 7000B Rev 02: 2007  |
| 18.        | Total Iron        |           | mg/kg      | 54085        | The second se   | 508 1996, 70008 Rev 02: 2007  |
| 19.        | Total Zinc        |           | mg/kg      | 42.1         | and the second se | 508 1996, 70008 Rev.02: 2007  |

#### END OF REPORT

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Chemical Testing









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### TEST REPORT

| Report No.: | ME-0263240204N | Date: 15.02.2024 |
|-------------|----------------|------------------|
| ULR No.     | -              | -                |

| Name and<br>Address of Customer | "MIRACLE"                              | SIDENTIAL PROJECT                    | WO No : Verbal<br>WO Date: 01.02.2024 |
|---------------------------------|--|--------------------------------------|---------------------------------------|
| Sample<br>Description / Type    | Soil                                   | Sampling Done by                     | Laboratory                            |
| Sampling Location               | Near Site Area                         | Sample<br>Quantity / Packing         | 1 kg X 1 No. Polyethene bag           |
| Date of Sampling                | 03.02.2024                             | Date of Receipt of<br>Sample         | 04.02.2024                            |
| Sampling Procedure              | Manual of Soil Te<br>Agriculture, Govt | esting, Department of Agric<br>India | ulture & Cooperation, Ministry of     |
| Date of Start of<br>Analysis    | 07.02.2024                             | Date of Completion of<br>Analysis    | 13.02.2024                            |

| Sr.<br>No. | Parameter  | Unit  | Result            | Method Reference  |
|------------|--|-------|-------------------|---|
|            | Discipline: Chemical<br>Testing; Product Group:<br>Pollution & Environment<br>(Soil) |       |                   |   |
| 1.         | Free Lime  | %     | 0.175             | FAO Sec III Page no.71  |
| 2          | Total Sulphur  | %     | BQL<br>(LOQ:0.02) | IBM Manual of Procedure for Chemical & Instrumental<br>Analysis of Ore, Minerals & Environmental Sample Sec<br>6027 Pg. No. 278 |
| 3.         | Total Manganese  | mg/kg | 1931              | US EPA/SW 846 Method 30508: 1996, 7000B Rev 02: 2007  |

#### END OF REPORT

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| 25820658<br>Contact P<br>mahabal60                 | 3264<br>hone Surve<br>l@yahoo.c  | Y              | 93240-258<br>Ganesh Na<br>ganesh3300@yah | aik                                       | 99303-305790<br>Ajeet Kumar<br>meempcb@gnal.com | R B Ma    | habal    |
|--|--|----------------|--|---|---|-----------|----------|
| Survey Team<br>Mobile No.                          |  |                |  |   | k - Record (Ma<br>gan Sable<br>13800 578        |           |          |
| Ref No.  |  |                |  |   | Date  | 7/11/     | -2023    |
| Address "Mira                                      | Proposed Residential Project<br>"Miracle" Village: Ranjnoli,<br>Tal: Bhiwandi, Dist: Thane |                |  | Mr.<br>Post<br>Mobile<br>E-Mail<br>Direct | 2202020200                                      | r         | dra.com  |
| Extr.  |  |                |  | Fax                                       |   |           |          |
| Sample from  | Oua  | ntity          | SURVEY D                                 |   | Arrival time                                    | e Departe | ure time |
| Stack<br>Ambient<br>Noise<br>Work room<br>Effluent | 01   | 01<br>01<br>02 | -][11]2                                  |   |   |           |          |
| Water Drinkin                                      | 02   | 01             |  |   |   |           |          |

From Client: Feedback / Complaint / Instructions (you can also send them by fax)

01

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Name Shanning an

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Meteorology Other Soil

Signature

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Analysis

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

| 5223 Ha                         | Report No .: ME | -0583231108                  |  | Date: 11.11.2023               | 1 |
|---------------------------------|-----------------|------------------------------|--|--------------------------------|---|
|                                 | ULR No : TC     | 748723000018028F             |  | 61                             | ľ |
| Name and<br>Address of Customer | "MIRACLE"       | SIDENTIAL PROJECT            | WO No. Verba<br>WO Date: 05.10   | 100000                         |   |
| Sample<br>Description / Type    | Ambient Air     | Sampling Done by             | Laboratory   |                                | 1 |
| Sampling Location               | Near Main Gate  | Sample<br>Quantity / Packing | PM <sub>10</sub> Filter Pape<br>PM <sub>2.5</sub> : Filter Pap<br>SO <sub>2</sub> :30 mL X 2 N<br>NO <sub>2</sub> :30 mL X 2 N | er 1 X 1 No.<br>No. PVC Bottle |   |
| Date of Sampling                | 07.11.2023      | Date of Receipt of Sample    | 08.11.2023   |                                |   |
| Sampling Procedure              | As per method r | eference                     |  |                                | 1 |
| Date of Start of                | 08.11.2023      | Date of Completion of        | 09.11.2023   |                                |   |

Analysis

| Sr.<br>No. | Parameter   | Unit              | Result | INAAQS | Method Reference  |
|------------|---|-------------------|--------|--------|---|
|            | Discipline: Chemical<br>Testing; Product Group:<br>Atmospheric Pollution<br>(Ambient Air) |                   |        |        |   |
| 1          | Sulphur Dioxide (SO <sub>2</sub> )  | µg/m³             | 8.5    | 80     | CPCB Guidelines for the Measurement of Ambient<br>Air Pollutants, Volume I, 2012-13, Page No.1-6  |
| 2          | Nitrogen Dioxide (NO2)  | µg/m <sup>3</sup> | 10.1   | 80     | CPCB Guidelines for the Measurement of Ambient<br>Air Pollutants, Volume I, 2012-13, Page No.7-10 |
| 3          | Particulate Matter (size less than 10µm) or PMto  | µg/m³             | 59     | 100    | CPCB Guidaines for the Measurement of Ambient<br>Air Pollutants, Volume I, 2012-13, Page No 11-14 |
| 4          | Particulate Matter (size less than 2.5µm) or PM25   | hð\w <sub>3</sub> | 23     | 60     | CPCB Guidelines for the Measurement of Ambien<br>Air Pollutants, Volume I, 2012-13, Page No.15-30 |

#### END OF REPORT

Note: 1. BQL: Below Quantification Limit.

- 2. LOQ: Limit of Quantification.
- 3. Duration of Sampling: 08h.
- 4. TWA: Time Weighted Average
- 5. NAAQS: National Ambient Air Quality Standard
- 6. #- NAAQS specified as: 8 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM10, PM25.
- 7. The result listed refers only to the tested sample(s) and applicable parameter(s)
- 8. This report is not to be reproduced except in full, without the written approval of the laboratory.
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Page 1 of 1 QF/SALE/03 Issue No 03 Date 05.12.2019 Amd 04 Date 18.07 2023

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### TEST REPORT

|                                 | t t        | Manual Annual Sector Sector     |               | 21               |
|---------------------------------|------------|---------------------------------|---------------|------------------|
| 3842                            | Report No  | ME-0587231108                   |               | Date: 16.11.2023 |
| 同税県                             | ULR No.    | TC748723000018032F              |               | 1                |
| ABA HISTORY                     |            |                                 |               |                  |
| Name and<br>Address of Customer | "MIRACLE   | njnoli, Tal: Bhiwandi,          |               |                  |
| Sample<br>Description / Type    | Ambient No | bise                            |               |                  |
| Date of Sampling                | 07.11.2023 |                                 |               |                  |
| Sampling Procedure              | CPCB Prot  | ocol for Ambient level Noise Mo | nitoring 2015 |                  |

| Sr.<br>No. | Location  | Time<br>in h<br>(day) | Sound Level<br>L <sub>eq</sub> dB (A)<br>Fast<br>Response | Sound Level<br>L <sub>eq</sub> dB (A)<br>Slow<br>Response | Time<br>in h<br>(Night) | Sound Level<br>L <sub>eq</sub> dB (A)<br>Fast<br>Response | Sound Level<br>Leg dB (A)<br>Slow<br>Response |
|------------|---|-----------------------|---|---|-------------------------|---|---|
|            | Discipline:<br>Chemical Testing:<br>Product Group:<br>Atmospheric<br>Pollution<br>(Ambient Noise) |                       |   |   |                         |   |   |
| 1.         | Project West Side   | 12:10                 | 65.7  | 63.2  | 2                       | 12  |   |
| 2.         | Near Main Gate  | 12.00                 | 68.5  | 66.9  | - S                     | 82  |   |

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

### END OF REPORT

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### TEST REPORT

|   |                                    |   |                           |                                  | 118              |
|---|------------------------------------|---|---------------------------|----------------------------------|------------------|
|   | 100                                | Report No.: M                                 | E-0584231108              |                                  | Date: 17.11.2023 |
| 2 |                                    | ULR No.: TO                                   | C748723000018029F         |                                  | 200              |
|   | Name and<br>Address of<br>Customer | PROPOSED RE<br>"MIRACLE" Vi<br>Tal: Bhiwandi, |                           | WO No.: Verb<br>WO Date: 05.10   |                  |
|   | Sample<br>Description / Type       | Stack Emission                                | Sampling Done by          | Laboratory                       |                  |
| 8 | Sampling Location                  | D.G. Set 160 kV<br>Near Sales Offic           |                           | Thimble PM: 1 X<br>SO2:30mL X 1N |                  |
|   | Date of Sampling                   | 07.11.2023                                    | Date of Receipt of Sample | 08.11.2023                       |                  |
|   | Sampling<br>Procedure              | As per method i                               | reference                 |                                  |                  |
|   |                                    |   |                           |                                  |                  |

| Start of Analysis Analysis |
|----------------------------|
|----------------------------|

| Stack Details                           |                  |
|---|------------------|
| Stack Identity                          | Stack -1         |
| Stack attached to                       | D.G. Set 160 kVA |
| Material of construction                | M.S.             |
| Stack height above ground level (Meter) | 3                |
| Stack diameter (Meter)                  | 0.10             |
| Stack shape at top                      | Round            |
| Type of fuel                            | Diesel           |
| Fuel Consumption (L/h)                  | 3                |

| Parameter   | Unit  | Result  | Method Reference  |
|---|---|---|---|
| Discipline: Chemical Testing;<br>Product Group: Atmospheric<br>Pollution (Stack Emission) |   |   |   |
| Flue gas Temperature  | °C  | 130   | IS 11255 (Part 3):2008  |
| Flue gas Velocity   | m/s   | 10.4  | IS 11255 (Part 3):2008  |
| Flue Gas Flow Rate  | Nm <sup>3</sup> /h  | 216   | IS 11255 (Part 3):2008  |
| Particulate Matter (PM)   | mg/Nm <sup>3</sup>  | 23  | IS 11255 (Part 1):1985  |
| Sulphur Dioxide (SO <sub>2</sub> )  | mg/Nm <sup>3</sup>  | 11  | IS 11255 (Part 2) 1985  |
|   | Discipline: Chemical Testing;<br>Product Group: Atmospheric<br>Pollution (Stack Emission)<br>Flue gas Temperature<br>Flue gas Velocity<br>Flue Gas Flow Rate<br>Particulate Matter (PM) | Discipline: Chemical Testing;         Product Group: Atmospheric         Pollution (Stack Emission)         Flue gas Temperature       °C         Flue gas Velocity       m/s         Flue Gas Flow Rate       Nm³/h         Particulate Matter (PM)       mg/Nm³ | Discipline: Chemical Testing;<br>Product Group: Atmospheric<br>Pollution (Stack Emission)     PC       Flue gas Temperature     PC     130       Flue gas Velocity     m/s     10.4       Flue Gas Flow Rate     Nm <sup>3</sup> /h     216       Particulate Matter (PM)     mg/Nm <sup>3</sup> 23 |

Page 1 of 2 OF/SALE/04 Issue No 03 Date 05 12 2019 Amd 03 Date 18.07 2023

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### TEST REPORT



Note: 1. BQL: Below Quantification Limit

- 2. LOQ: Limit of Quantification
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Analysis

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### TEST REPORT

| 23:405                          | Report No.                      | ME-0585231108                  |  | Date: 17.11.2023 |
|---------------------------------|---------------------------------|--------------------------------|--|------------------|
| ULR No.: TC748723000018030F     |                                 |                                |  |                  |
| Name and<br>Address of Customer | "MIRACLE"                       | RESIDENTIAL PROJECT            | WO No. Verb<br>WO Date: 05.10                                |                  |
| Sample<br>Description / Type    | Drinking wate                   | r Sampling Done by             | Laboratory   |                  |
| Sampling Location               | Near Office A<br>(Bisleri Water |                                | 2L X 1 No. PVC<br>500 mL X 1 No.<br>250 mL X 1 No.<br>Bottle |                  |
| Date of Sampling                | 07.11.2023                      | Date of Receipt of<br>Sample   | 08.11.2023   |                  |
| Sampling Procedure              | IS:3025 (Part                   | I); IS 1622; APHA 24" Ed. 2023 | 3, 1060-B, 9060 A  |                  |
| Date of Start of                | 08.11.2023                      | Date of Completion of          | 16.11.2023   |                  |

Analysis

| Sr.<br>No. | Parameter  | Unit  | Result            | #Limit     | \$Limit       | Method Reference                |
|------------|--|-------|-------------------|------------|---------------|---------------------------------|
|            | Discipline: Chemical<br>Testing: Product<br>Group: Water (Drinking<br>Water) |       |                   |            |               |                                 |
| 1.         | Colour   | Hazen | BQL<br>(LOQ:1)    | 5 Max.     | 15 Max.       | APHA 24th Ed. 2023, 2120-B      |
| 2.         | Odour  | -     | Agreeable         | Agreeable  | Agreeable     | IS 3025 (Part 05):2018          |
| 3.         | Turbidity  | NTU   | 0.2               | 1 Max.     | 5 Max.        | APHA 24th Ed. 2023. 2130-B      |
| 4.         | pH   |       | 6.5               | 6.5 to 8.5 | No Relaxation | APHA 24th Ed. 2023, 4500-H*-8   |
| 5.         | Free Chlorine (Residual)   | mg/L  | BQL<br>(LOQ 0.05) | 0.2 Mn.    | 1.0 Mn.       | APHA 24th Ed. 2023, 4500-CI G   |
| 6          | Total Suspended Solids   | mg/L  | BQL<br>(LOQ:5)    | St         |               | APHA 24th Ed. 2023, 2540-D      |
| 7.         | Total Dissolved Solids   | mg/L  | 20                | 500 Max.   | 2000 Max      | IS 3025 (Part 16) 2023          |
| 8,         | Alkalinity Total (as<br>CaCO <sub>3</sub> )                                  | mg/L  | 8                 | 200 Max.   | 600 Max.      | APHA 24th Ed. 2023, 2320-B      |
| 9.         | Total Hardness (as<br>CaCO <sub>3</sub> )                                    | mg/L  | 16                | 200 Max    | 600 Max.      | APHA 24th Ed. 2023, 2340-C      |
| 10.        | Chloride (as Cl)   | mg/L  | 4.0               | 250 Max.   | 1000 Max.     | APHA 24th Ed. 2023, 4500-CI-B   |
| 11.        | Sulphate (as SO4)  | mg/L  | 3.15              | 200 Max.   | 400 Max.      | APHA 24th Ed. 2023, 4500- SO4-E |
| 12         | Nitrate (as NOs)   | mg/L  | 1.35              | 45 Max     | No Relaxation | APHA 24th Ed. 2023, 4500-NO2-8  |

Page 1 of 2 QF/SALE/02 Issue No 03 Date 05 12 2019. Amd 03 Date 18.07 2023 Reviewed and authorised by

Harish Mendhi

Technical Manager

**Chemical Testing** 

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Pranali Kurve Technical Manager Biological Testing







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### TEST REPORT

| 23        |  | Report No | ME-058523          | 1108  |               |             | Date: 17.11.2023    |
|-----------|--|-----------|--------------------|---|---------------|-------------|---------------------|
| Ō         | ULR No   |           | TC748723000018030F |   |               |             |                     |
| Sr.<br>No | Parameter  | Unit      | Result             | #Limit  | SLimit        | Method Re   | ference             |
| 13.       | Calcium (as Ca)  | mg/L      | 4.0                | 75 Max.   | 200 Max.      | APHA 24th   | Ed. 2023. 3500-Ca-B |
| 14.       | Magnesium (as Mg)  | mg/L      | 1.5                | 30 Max.   | 100 Max.      | APHA 24th   | Ed. 2023, 3500-Mg-B |
| 15.       | Fluoride (as F)  | mg/L      | 0.22               | 1 Max.  | 1.5 Max       | APHA 24th   | Ed. 2023, 4500-F, D |
|           | Product Group:<br>Residues in water  | 1100000   |                    |   |               |             |                     |
| 16.       | Iron (as Fe)   | mg/L      | 0.101              | 1.0 Max.  | No Relaxation | IS:3025 (Pr | art 2), 2019        |
|           | Discipline: Biologica<br>Testing: Product<br>Group: Water (Drink<br>water) | 2250.00   |                    |   |               |             |                     |
| 17        | Total Coliforms  | /100mL    | Absent             | Shall not be<br>detectable in<br>any 100 mL,<br>Sample. | 34            | IS 15185.2  | 016                 |
| 18        | Escherichia coli   | /100mL    | Absent             | Shall not be<br>detectable in<br>any 100 mL<br>Sample.  | 33            | IS 151852   | 016                 |

#### END OF REPORT

Note: 1. BQL: Below Quantification Limit.

- 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
- 5. The result listed refers only to the tested sample(s) and applicable parameter(s).
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Pranali Kurve Technical Manager Biological Testing







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### TEST REPORT

| Let 2                           | Report No.          | ME-0586231108                               |  | Date: 17.11.2023 |  |
|---------------------------------|---------------------|---|--|------------------|--|
| ULR No.: TC748723000            |                     | TC748723000018031F                          | 8031F  |                  |  |
| Name and<br>Address of Customer | "MIRACLE"           | RESIDENTIAL PROJECT<br>noli, Tal: Bhiwandi, | WO No. Verb<br>WO Date: 05.1                                 |                  |  |
| Sample<br>Description / Type    | Drinking water      | Sampling Done by                            | Laboratory   |                  |  |
| Sampling Location               | Near Labour<br>Camp | Sample<br>Quantity / Packing                | 2L X 1 No. PVC<br>500 mL X 1 No.<br>250 mL X 1 No.<br>Bottle |                  |  |
| Date of Sampling                | 07.11.2023          | Date of Receipt of<br>Sample                | 08.11.2023   |                  |  |
| Sampling Procedure              | IS:3025 (Part       | I); IS 1622; APHA 24" Ed. 2023              | 3, 1060-B, 9060 A  |                  |  |
| Date of Start of<br>Analysis    | 08.11.2023          | Date of Completion of<br>Analysis           | 16.11.2023   |                  |  |

| Sr.<br>No. | Parameter  | Unit  | Result            | #Limit     | SLimit        | Method Reference                |
|------------|--|-------|-------------------|------------|---------------|---------------------------------|
|            | Discipline: Chemical<br>Testing: Product<br>Group: Water (Drinking<br>Water) |       |                   |            |               |                                 |
| 1.         | Colour   | Hazen | BQL<br>(LOQ:1)    | 5 Max      | 15 Max        | APHA 24th Ed. 2023, 2120-B      |
| 2.         | Odour  | ÷     | Agreeable         | Agreeable  | Agreeable     | IS 3025 (Part 05):2018          |
| 3.         | Turbidity  | NTU   | 0.2               | 1 Max      | 5 Max         | APHA 24th Ed. 2023, 2130-8      |
| 4.         | pН   | -     | 6.5               | 6.5 to 8.5 | No Relaxation | APHA 24th Ed. 2023, 4500-H1-B   |
| 5.         | Free Chlorine (Residual)   | mg/L  | BQL<br>(LOQ:0.05) | 0.2 Min.   | 1.0 Min.      | APHA 24th Ed. 2023, 4500-Cl G   |
| 6.         | Total Suspended Solids   | mg/L  | BQL<br>(LOQ:5)    | 3          | 3             | APHA 24th Ed. 2023, 2540-D      |
| 1.         | Total Dissolved Solids   | mg/L  | 35                | 500 Max.   | 2000 Max.     | IS 3025 (Part 16):2023          |
| 8.         | Alkalinity Total (as<br>CaCO <sub>3</sub> )                                  | mg/L  | 16                | 200 Max.   | 600 Max.      | APHA 24th Ed. 2023, 2320-B      |
| 9.         | Total Hardness (as<br>CaCO <sub>3</sub> )                                    | mg/L  | 26                | 200 Max    | 600 Max.      | APHA 24th Ed. 2023, 2340-C      |
| 10.        | Chiloride (as CI)  | mg/L  | 5.0               | 250 Max    | 1000 Max      | APHA 24th Ed. 2023, 4500-CI-B   |
| 11.        | Sulphate (as SO <sub>4</sub> )   | mg/L  | 3.66              | 200 Max.   | 400 Max.      | APHA 24th Ed. 2023, 4500- SO4-E |
| 12         | Nitrate (as NO3)   | mg/L  | 1.22              | 45 Max     | No Relaxation | APHA 24th Ed. 2023, 4500-NO3-B  |

Page 1 of 2 QF/SALE/02 Issue No 03 Date 05.12.2019. Amd 03 Date 18.07.2023

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Chemical Testing

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### TEST REPORT

| 1       | Ċ,  | Re  | eport No : | ME-058623 | 1108   |               |             | Date: 17.11.2023    |
|---------|-----|---|------------|-----------|--|---------------|-------------|---------------------|
| ULR No. |     |   | R No       | TC7487230 | 00018031F  |               |             | 0                   |
|         | ir. | Parameter   | Unit       | Result    | #Limit   | <b>SLimit</b> | Method Re   | ference             |
| 1       | 3.  | Calcium (as Ca)   | mg/L       | 7.2       | 75 Max.  | 200 Max.      | APHA 24th   | Ed. 2023, 3500-Ca-B |
| 1       | 4,  | Magnesium (as Mg)   | mg/L       | 1.9       | 30 Max.  | 100 Max.      | APHA 24th   | Ed. 2023, 3500-Mg-8 |
| 1       | 5   | Fluoride (as F)   | mg/L       | 0.28      | 1 Max  | 1.5 Max.      | APHA 24th   | Ed. 2023, 4500-F, D |
|         |     | Product Group:<br>Residues in water   | 200        |           |  |               |             |                     |
| 1       | 6.  | Iron (as Fe)  | mg/L       | 0.062     | 1.0 Max.   | No Relaxation | IS:3025 (Pa | art 2), 2019        |
|         |     | Discipline: Biological<br>Testing: Product<br>Group: Water (Drinkin<br>water) |            |           |  |               |             |                     |
| 1       | 7.  | Total Coliforms   | /100mL     | Absent    | Shall not be<br>detectable in<br>any 100 mL<br>Sample. | 12            | IS 15185-2  | 016                 |
| 1       | 8.  | Escherichia coli  | /100mL     | Absent    | Shail not be<br>detectable in<br>any 100 mL<br>Sample. | 3             | IS 15185:2  | 016                 |

#### END OF REPORT

Note: 1. BQL: Below Quantification Limit.

125/21

- 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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### TEST REPORT

| 400413                          | Report No.:                                     | ME-0588231108                           |                           | Date: 21.11.2023 |
|---------------------------------|---|---|---------------------------|------------------|
|                                 | ULR No.:  | TC748723000018033F                      |                           | 20               |
| Name and<br>Address of Customer | PROPOSED RE<br>"MIRACLE" Vil<br>Tal : Bhiwandi, |   | WO No.: Ver<br>WO Date: - | bal              |
| Sample<br>Description / Type    | Soil  | Sampling Done by                        | Laboratory                |                  |
| Sampling Location               | Near Site Area                                  | Sample<br>Quantity / Packing            | 1 kg X 1 No. Pol          | yethene bag      |
| Date of Sampling                | 07.11.2023                                      | Date of Receipt of<br>Sample            | 08.11.2023                |                  |
| Sampling Procedure              | Manual of Soil T<br>Agriculture, Gov            | esting, Department of Agric<br>t. India | ulture & Cooperatio       | n, Ministry of   |
| Date of Start of<br>Analysis    | 09.11.2023                                      | Date of Completion of<br>Analysis       | 17.11.2023                |                  |

| Sr.<br>No. | Parameter  | Unit      | Result             | Method Reference   |
|------------|--|-----------|--------------------|--|
|            | Discipline: Chemical<br>Testing: Product Group:<br>Pollution & Environment<br>(Soil) |           |                    |  |
| 1.         | pH (1+5)   |           | 9.0                | Physical and Chemical methods of Soil and Water Analysis<br>Food and Agriculture Organization of the United Nations<br>(FAO) Sec. III, 1, Page No 65, 1984   |
| 2          | Electrical Conductivity (1+5)  | µS/cm     | 228                | Physical and Chemical methods of Soil and Water Analysis<br>Food and Agriculture Organization of the United Nations<br>(FAO) Sec. III, 5 Page No 85: 1984  |
| 3.         | Moisture Content   | %         | 12.5               | IS 2720 (Part - II): 1973  |
| 4.         | Cation Exchange Capacity   | meq/100gm | 42.8               | Physical and Chemical methods of Soil and Water Analysis<br>Food and Agriculture Organization of the United Nations<br>(FAO) Sec. III 7-2, Sodium Saturation Flame Photometry<br>Method Page No. 104: 1984 |
| 5.         | Organic Matter   | %         | BQL<br>(LOQ 0.345) | Manual of Soil Testing, Department of Agriculture &<br>Cooperation, Ministry of Agriculture, Govt. India, Sec.4 -17,<br>Page No 83: 2011   |
| 6.         | Grain Size (Texture) Sand  | %         | 45.0               | Manual of Soil Testing Department of Agriculture & Cooperation, Ministry of Agriculture Govt. India: 2011  |
| 7.         | Grain Size (Texture) Silt  | %         | 18.6               | Manual of Soil Testing Department of Agriculture &<br>Cooperation, Ministry of Agriculture Govt. India: 2011   |
| 8          | Grain Size (Texture) Clay  | **        | 36.4               | Manual of Soil Testing Department of Agriculture &<br>Cooperation, Ministry of Agriculture Govt. India: 2011   |

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### TEST REPORT



Sr. No. 9

| 4          | 승문                          | Report No. | ME-058823  | 4100                  | 1  | Date: 21.11.2023  |
|------------|-----------------------------|------------|------------|-----------------------|--|---|
| ŝ,         | 200 C                       | ULR No.:   | TC7487230  |                       |  | Dale, 21, 11.2023   |
| -154       | NP24                        | ULK NO.:   | 107407230  | 00010033F             | 8  | -   |
| Sr.<br>No. | Parameter                   |            | Unit       | Result                | Method Reference   | 12 A  |
| 9.         | Texture (Class)             |            | %          | Sandy<br>Clay<br>Loam | Manual of Soil Testing Depart<br>Cooperation, Ministry of Agric  |   |
| 10.        | Available Phosph            | lorous     | mg/kg      | 3.74                  | Physical and Chemical methods of Soil and Wate<br>Food and Agriculture Organization of the United I<br>(FAO) Sec. III, 12 – 1, Sodium Bicarbonate Extra<br>Olsen Blue Method Page No. 157.: 1984 |   |
| 11.        | Total Phosphoro             | JS         | mg/kg      | 737                   | Manual for method of water, 5<br>Page No 16: 2006  | Soil and Plant analysis WL II.  |
| 12.        | Available Calcium           | n          | meq/100gm  | 29.7                  | Food and Agriculture Organiz   | ds of Soil and Water Analysis<br>ation of the United Nations<br>im Acetate Extraction Titration |
| 13.        | Available Magnesium n       |            | meq/ 100gm | 12.6                  | Food and Agriculture Organiz   | ds of Soil and Water Analysis<br>ation of the United Nations<br>im Acetate Extraction Titration |
| 14.        | Available Sodium r          |            | meq/100gm  | 0.308                 | Physical and Chemical metho<br>Food and Agriculture Organiz<br>(FAO) Sec. III, 6 - 1 Ammoniu<br>Photometric Method, Page N   | im Acetate Extraction Flame   |
| 15.        | 5. Available Nitrogen mg/kg |            | mg/kg      | 137                   | Manual of Soil Testing, Depa<br>Cooperation, Ministry of Agric<br>Page No 89: 2011   | rtment of Agriculture &<br>auture, Govt. India, Sec.4 -17,                                      |
| 16         | Available Potass            | ium        | meq/100gm  | 0.147                 | Physical and Chemical metho<br>Food and Agriculture Organia<br>(FAO) Sec. III, 8 - 1 Ammonia<br>Photometric Method, Page N   | Im Acetate Extraction Flame   |
| 17.        | Total Copper                |            | mg/kg      | 145                   | US EPA/SW 846 Method 305   | 08 1996, 70008 Rev.02: 2007   |
| 18         | Total Iron                  |            | mg/kg      | 54260                 | US EPA/SW 846 Method 305   | 0B 1996, 7000B Rev 02: 2007   |
| 19         | Total Zinc                  |            | mg/kg      | 130                   | US EPA/SW 846 Method 305   | 0B:1996, 7000B Rev 02: 2007   |

#### END OF REPORT

Note: 1. BQL: Below Quantification Limit.

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Page 2 of 2 QF/SALE/02 Issue No 03 Date 05.12.2019 Amd 03 Date 18.07.2023

Reviewed and authorised by

**Kishor Yeole** Branch Manager Chemical Testing









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### TEST REPORT

|                                 |                                   |  |                           | and the second second |
|---------------------------------|-----------------------------------|--|---------------------------|-----------------------|
| Lotan S                         | Report No.:                       | ME-0588231108N   |                           | Date: 21.11.2023      |
|                                 | ULR No :                          | •  |                           | 2                     |
| Name and<br>Address of Customer |                                   | ESIDENTIAL PROJECT<br>illage : Ranjnoli,<br>i, Dist: Thane | WO No.: Ver<br>WO Date: - | bal                   |
| Sample<br>Description / Type    | Soil                              | Sampling Done by   | Laboratory                |                       |
| Sampling Location               | Near Site Area                    | Sample<br>Quantity / Packing                               | 1 kg X 1 No. Pol          | yethene bag           |
| Date of Sampling                | 07.11.2023                        | Date of Receipt of<br>Sample                               | 08.11.2023                |                       |
| Sampling Procedure              | Manual of Soil<br>Agriculture, Go | Testing, Department of Agric<br>vt. India                  | ulture & Cooperatio       | n, Ministry of        |
| Date of Start of<br>Analysis    | 09.11.2023                        | Date of Completion of<br>Analysis                          | 17.11.2023                |                       |
|                                 |                                   |  |                           |                       |

| Sr.<br>No. | Parameter  | Unit  | Result | Method Reference                                      |
|------------|--|-------|--------|---|
|            | Discipline: Chemical<br>Testing; Product Group:<br>Pollution & Environment<br>(Soil) |       |        |   |
| 1.         | Free Lime  | %     | 0.137  | FAO Sec. III. Page no-71                              |
| 2          | Total Sulphur  | %     | 0.061  | ASTM D 4239-18  |
| 3.         | Total Manganese  | mg/kg | 1180   | US EPA/SW 846 Method 3050B 1996, 7000B Rev 02<br>2007 |

#### END OF REPORT

Note: 1. BQL. Below Quantification Limit.

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Page 1 of 1 OF/SALE/02 Issue No 03 Date 05.12.2019 Amd 03 Date 18.07.2023 Reviewed and authorised by

Kishor Yeole Branch Manager Chemical Testing



|                                | tact Phon   | 32648652<br>e Survey<br>ahoo.com      | 93240-2<br>Ganesh<br>ganesh3300@y                                | Naik    | 99303-305790<br>Ajeet Kumar<br>nes.mpcb@gmail.com | 93239-51573<br>R B Mahabal<br>raghunath@mahabal.com |  |
|--------------------------------|---|---------------------------------------|--|---------|---|---|--|
| Survey Team<br>Mobile No.      | Env   | ironmental Ma<br>Sita Dam<br>91377810 | nitoring Su<br>r Sony<br>41                                      | Singh   | - Record (Mon                                     | thly)   |  |
| Ref.No.                        |   |                                       |  |         | Date  | 0.5 - 03 -202                                       |  |
| Client<br>Address<br>Board     | Proposed Residential F<br>"Miracle" Village: Ranjnol<br>Tal: Bhiwandi, Dist: Than |                                       | ge: Ranjnoli, Post Safe<br>Dist: Thane Mobile 996<br>E-Mail VARA |         | Safety Officer<br>9962826106                      |   |  |
| Extr.                          |   |                                       |  | Direct  | -   |   |  |
| EX(0).                         |   |                                       |  | .5.277  |   |   |  |
| Sample fi                      | rom   | Quantity                              | SURVEY   | DETAILS | Arrival time                                      | Departure time                                      |  |
| Stack<br>Ambient<br>Noise      | e   | 01<br>01<br>01<br>02                  |  |         | 1010.0  |   |  |
| Work roon<br>Effluent<br>Water | đ   | - 01                                  | 05/03/.  | 2024    | 10:30   | 18:30   |  |
| Haz. Wast                      | e o   | 01                                    |  |         |   | 10,00   |  |

Meteorology Other

From Client: Feedback / Complaint / Instructions (you can also send them by fax)

Name Showingan Variadhan INTERNAL USE

Signature:

DISPATCH REPORT

Capy at this form - 1-MC

Account statement and pending p(lis

Bill & advince vecsigt - 3 capies

Survey report - 2 copies

Synappine of Complete Proof of the Carry & Charalter Income:



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### TEST REPORT

| 3.585                           | Report No.: ME  | ort No.: ME-0364240306            |  |                                |  |
|---------------------------------|-----------------|-----------------------------------|--|--------------------------------|--|
| 回到犯                             | ULR No.: TC     | 748724000004026F                  |  |                                |  |
| Name and<br>Address of Customer | "MIRACLE"       | SIDENTIAL PROJECT                 | WO No.: Verba<br>WO Date: 02.02  |                                |  |
| Sample<br>Description / Type    | Ambient Air     | Sampling Done by                  | Laboratory   |                                |  |
| Sampling Location               | Near Main Gate  | Sample<br>Quantity / Packing      | PM <sub>10</sub> Filter Pape<br>PM <sub>2.5</sub> : Filter Pap<br>SO <sub>2</sub> :30 mL X 2 1<br>NO <sub>2</sub> :30 mL X 2 1 | er 1 X 1 No.<br>No. PVC Bottle |  |
| Date of Sampling                | 05.03.2024      | Date of Receipt of Sample         | 06.03.2024   |                                |  |
| Sampling Procedure              | As per method r | eference                          |  |                                |  |
| Date of Start of<br>Analysis    | 06.03.2024      | Date of Completion of<br>Analysis | 08.03.2024   |                                |  |

| Sr.<br>No. | Parameter   | Unit              | Result | INAAQS | Method Reference   |
|------------|---|-------------------|--------|--------|--|
|            | Discipline: Chemical<br>Testing: Product Group:<br>Atmospheric Pollution<br>(Ambient Air) |                   |        |        |  |
| 1          | Sulphur Dioxide (SO <sub>2</sub> )  | µg/m³             | 11.1   | 80     | CPCB Guidelines for the Measurement of Ambient<br>Air Pollutants, Volume J. 2012-13, Page No.1-6   |
| 2          | Nitrogen Dioxide (NO <sub>2</sub> )   | µg/m³             | 15.2   | 80     | CPCB Guidelines for the Measurement of Ambient<br>Air Pollutants, Volume I, 2012-13, Page No.7-10  |
| 3          | Particulate Matter (size less than 10µm) or PMto  | µg/m³             | 38     | 100    | CPCB Guidelines for the Measurement of Ambient<br>Air Pollutants, Volume I, 2012-13, Page No.11-14 |
| 4          | Particulate Matter (size less than 2.5µm) or PM21   | hð\w <sub>3</sub> | 21     | 60     | CPCB Guidelines for the Measurement of Ambient<br>Air Pollutants, Volume I, 2012-13, Page No.15-30 |

#### END OF REPORT

Note: 1. BQL: Below Quantification Limit.

- 2. LOQ: Limit of Quantification.
- 3. Duration of Sampling: 08h.
- 4. TWA: Time Weighted Average
- 5. NAAQS: National Ambient Air Quality Standard
- #- NAAQS specified as: 8 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PMio. PM25.
- 7. The result listed refers only to the tested sample(s) and applicable parameter(s).
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### TEST REPORT

|                                 | Report No.  | ME-0368240306           |                                       | Date: 09.03.2024 |
|---------------------------------|---|-------------------------|---------------------------------------|------------------|
|                                 | ULR No :  | TC748724000004030F      | 100                                   |                  |
| Name and<br>Address of Customer | "MIRACLE  | anjnoli, Tal: Bhiwandi, | WO No.: Verbal<br>WO Date: 04.03.2024 |                  |
| Sample<br>Description / Type    | Ambient No  | bise                    |                                       |                  |
| Date of Sampling                | 05.03.2024  |                         |                                       |                  |
| Sampling Procedure              | CPCB Protocol for Ambient level Noise Monitoring 2015 |                         |                                       |                  |

| Sr. | Location  | Time in h | Sound Level Leg dB (A) |                  | Time in h | Sound Level Leq dB (A) |                  |
|-----|---|-----------|------------------------|------------------|-----------|------------------------|------------------|
| No. |   | (day)     | Fast<br>Response       | Slow<br>Response | (Night)   | Fast<br>Response       | Slow<br>Response |
|     | Discipline: Chemical<br>Testing; Product Group:<br>Atmospheric Pollution<br>(Ambient Noise) |           |                        |                  |           |                        |                  |
| 1.  | Project West Side   | 12:20     | 69.7                   | 64.0             | 54 - C    | 2                      |                  |
| 2.  | Near Main Gate  | 12:00     | 64.3                   | 60.9             | 84        | . Sa                   | 343              |

| Area Code | Area Type        | ulation & Control) Rules, 2000 (Rules 3(1) and 4(1))<br>Limits in dB (A) weighted scale |                                       |  |  |
|-----------|------------------|---|---------------------------------------|--|--|
|           |                  | Day Time<br>(6:00a.m. to 10:00 p.m.)  | Night Time<br>(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                                    |  |  |

#### END OF REPORT

Note:

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### TEST REPORT

| Report No     | ME-0365240306  |   | Date: 09.03.2024   |
|---------------|--|---|--|
| ULR No.:      |  |   |  |
| "MIRACLE"     | /illage: Ranjnoli,   | WO No.: Verba<br>WO Date: 02.02   |  |
| Stack Emissio | n Sampling Done by   | Laboratory  |  |
|               |  | Thimble PM: 1 X<br>SO2:30mL X 1No   |  |
| 05.03.2024    | Date of Receipt of Sample  | 06.03.2024  |  |
| As per methor | I reference  |   |  |
| 06.03.2024    | Date of Completion of<br>Analysis  | 07.03.2024  |  |
|               | ULR No.:<br>PROPOSED F<br>"MIRACLE" V<br>Tal: Bhiwand<br>Stack Emissio<br>D.G. Set 160 F<br>Near Sales Of<br>05 03 2024<br>As per method | ULR No.:       TC748724000004027F         PROPOSED RESIDENTIAL PROJECT         "MIRACLE" Village: Ranjnoli,         Tal: Bhiwandi, Dist: Thane         Stack Emission       Sampling Done by         D.G. Set 160 kVA       Sample         Near Sales Office       Quantity / Packing         05 03.2024       Date of Receipt of Sample         As per method reference       06 03.2024 | ULR No.:       TC748724000004027F         PROPOSED RESIDENTIAL PROJECT<br>"MIRACLE" Village: Ranjnoli,<br>Tal: Bhiwandi, Dist: Thane       WO No.: Verba<br>WO Date: 02.02         Stack Emission       Sampling Done by       Laboratory         D.G. Set 160 kVA<br>Near Sales Office       Sample<br>Quantity / Packing       Thimble PM. 1 X<br>SO2:30mL X 1No         05.03.2024       Date of Receipt of Sample       06.03.2024         O6.03.2024       Date of Completion of       07.03.2024 |

| Stack Details                           |                                    |
|---|------------------------------------|
| Stack Identity                          | Stack -1                           |
| Stack attached to                       | D.G. Set 160 kVA Near Sales Office |
| Material of construction                | M.S.                               |
| Stack height above ground level (Meter) | 3                                  |
| Stack diameter (Meter)                  | 0.10                               |
| Stack shape at top                      | Round                              |
| Type of fuel                            | Diesel                             |
| Fuel Consumption (L/h)                  | 3                                  |

| Sr.<br>No. | Parameter   | Unit               | Result | Method Reference       |
|------------|---|--------------------|--------|------------------------|
|            | Discipline: Chemical Testing:<br>Product Group: Atmospheric<br>Pollution (Stack Emission) |                    |        |                        |
| 1          | Flue gas Temperature  | °C                 | 133    | IS 11255 (Part 3):2008 |
| 2          | Flue gas Velocity   | m/s                | 9.6    | IS 11265 (Part 3) 2008 |
| 3          | Flue Gas Flow Rate  | Nm <sup>3</sup> /h | 198    | IS 11255 (Part 3) 2008 |
| 4          | Particulate Matter (PM)   | mg/Nm <sup>3</sup> | 24     | IS 11255 (Part 1):1985 |
| 5          | Sulphur Dioxide (SO2)   | mg/Nm <sup>3</sup> | 15     | IS 11255 (Part 2):1985 |

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Page 1 of 2 QF/SALE/04 Issue No 03 Date 05.12.2019. Amd 03 Date 18.07.2023

Sagar Yeul Dy. Technical Manager Chemical Testing







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### TEST REPORT



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- 2. LOQ: Limit of Quantification
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### TEST REPORT

| hand   Carl band                |   |                                     |  |                  |
|---------------------------------|---|-------------------------------------|--|------------------|
| 1000                            | Report No. ME   | -0367240306                         |  | Date: 13.03 2024 |
| 百钱死                             | ULR No. TC  | 748724000004029F                    |  |                  |
| Name and<br>Address of Customer | PROPOSED RES<br>"MIRACLE"<br>Village: Ranjnoli<br>Dist: Thane | DENTIAL PROJECT<br>, Tal: Bhiwandi, | WO No Verba<br>WO Date: 01.02                                |                  |
| Sample<br>Description / Type    | Drinking water  | Sampling Done by                    | Laboratory   |                  |
| Sampling Location               | Labour Camp   | Sample<br>Quantity / Packing        | 2L X 1 No. PVC<br>500 mL X 1 No.<br>250 mL X 1 No.<br>Bottle | PVC Can          |
| Date of Sampling                | 05.03.2024  | Date of Receipt of<br>Sample        | 06.03.2024   |                  |
| Sampling Procedure              | IS:3025 (Part I); IS  | 1622; APHA 24" Ed. 2023             | 1060-B, 9060 A   |                  |
| Date of Start of<br>Analysis    | 06 03 2024  | Date of Completion of<br>Analysis   | 12.03.2024   |                  |

| Sr.<br>No. | Parameter  | Unit  | Result            | #Limit     | SLimit        | Method Reference                           |
|------------|--|-------|-------------------|------------|---------------|--|
|            | Discipline: Chemical<br>Testing: Product<br>Group: Water (Drinking<br>Water) |       |                   |            |               |  |
| 1.         | Colour   | Hazen | BQL<br>(LOQ:1)    | 5 Max      | 15 Max.       | APHA 24 <sup>th</sup> Ed. 2023, 2120-B     |
| 2          | Odour  |       | Agreeable         | Agreeable  | Agreeable     | IS 3025 (Part 05) 2018                     |
| 3          | Turbidity  | NTU   | 0.2               | 1 Max.     | 5 Max         | APHA 24* Ed. 2023, 2130-B                  |
| 4          | pH   |       | 6.8               | 6.5 to 8.5 | No Relaxation | APHA 24# Ed. 2023, 4500-H*-8               |
| 5          | Free Chlorine (Residual)   | mg/L  | BQL<br>(LOQ:0.05) | 0.2 Mn.    | 1.0 Min.      | APHA 24* Ed. 2023; 4500-CI G               |
| 6          | Total Dissolved Solids   | mg/L  | 89                | 500 Max.   | 2000 Max.     | IS 3025 (Part 16) 2023                     |
| 7.         | Total Suspended Solids   | mg/L  | BQL<br>(LOQ:5)    | 1          |               | APHA 24 <sup>n</sup> Ed. 2023, 2540-D      |
| 8.         | Alkalinity Total (as<br>CaCO <sub>3</sub> )                                  | mg/L  | 48                | 200 Max.   | 600 Max.      | APHA 24* Ed. 2023, 2320-8                  |
| 9.         | Total Hardness (as<br>CaCO <sub>3</sub> )                                    | mg/L  | 50                | 200 Max.   | 500 Max.      | APHA 24* Ed. 2023, 2340-C                  |
| 10         | Chloride (as Cl)   | mg/L  | 15.0              | 250 Max    | 1000 Max.     | APHA 24 <sup>®</sup> Ed. 2023, 4500-CI-B   |
| 11.        | Sulphate (as SO4)  | mg/L  | 2.3               | 200 Max.   | 400 Max.      | APHA 24# Ed. 2023, 4500- SO+ E             |
| 12         | Nitrate (as NO <sub>2</sub> )  | mg/L  | 2.15              | 45 Max     | No Relaxation | APHA 24 <sup>th</sup> Ed. 2023, 4500-NO>-B |

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Page 1 of 2 QF/SALE/02 Issue No 03 Date 05.12.2019 Amd 03 Date 18.07.2023

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Harish Mendhi Technical Manager Technical Manager Chemical Testing

Pranali Kurve **Biological Testing** 





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### TEST REPORT

| W.         | R   | eport No | ME-036724          | 0306  |               |             | Date: 13.03.2024    |
|------------|---|----------|--------------------|---|---------------|-------------|---------------------|
| 回到犯        |   | ILR No   | TC748724000004029F |   |               |             | 27                  |
| Sr.<br>No. | Parameter   | Unit     | Result             | #Limit  | SLimit        | Method Re   | terence             |
| 13.        | Calcium (as Ca)   | mg/L     | 15.2               | 75 Max  | 200 Max.      | APHA 24*    | Ed. 2023. 3500-Ca-B |
| 14         | Magnesium (as Mg)   | mg/L     | 2.9                | 30 Max  | 100 Max.      | APHA 24th   | Ed. 2023, 3500-Mg-8 |
| 15.        | Fluoride (as F)   | mg/L     | 0.29               | 1 Max.  | 1.5 Max.      | APHA 24th   | Ed. 2023, 4500-F, D |
|            | Product Group:<br>Residues in water   | 10.2010  |                    |   |               |             |                     |
| 16.        | Iron (as Fe)  | mg/L     | 0.082              | 1.0 Max   | No Relaxation | IS 3025 (Pa | irt 2), 2019        |
|            | Discipline: Biologica<br>Testing; Product<br>Group: Water (Drinki<br>water) |          |                    |   |               |             |                     |
| 17.        | Total Coliforms   | /100mL   | Absent             | Shall not be<br>detectable in<br>any 100 mL<br>Sample | 6#            | IS 15185:20 | 116                 |
| 18.        | Escherichia coli  | /100mL   | Absent             | Shail not be<br>detectable in<br>any 100 mL<br>Sample | 12            | IS 15185-20 | 016                 |

#### END OF REPORT

Note: 1. BQL: Below Quantification Limit.

- 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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Pranali Kurve Technical Manager Technical Manager **Biological Testing** 

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### TEST REPORT

| Report No.:    | ME-0366240306   |   | Date: 13.03.2024  |
|----------------|---|---|---|
| ULR No.        | TC748724000004028F  |   | 156   |
| "MIRACLE"      |   | WO No.: Verb<br>WO Date: 01.02  | Contraction of the second se |
| Drinking water | r Sampling Done by  | Laboratory  |   |
|                | CONSCIENCES AND   | 2L X 1 No. PVC Can<br>500 mL X 1 No. PVC Can<br>250 mL X 1 No. Sterilized Glass<br>Bottle   |   |
| 05.03.2024     | Date of Receipt of<br>Sample  | 06.03.2024  |   |
| IS:3025 (Part  | I); IS 1622; APHA 24* Ed. 2023  | 8. 1060-B, 9060 A   |   |
| 06 03 2024     | Date of Completion of<br>Analysis   | 12.03.2024  |   |
|                | ULR No.<br>PROPOSED F<br>"MIRACLE"<br>Village: Ranj<br>Dist: Thane<br>Drinking water<br>Near Office Ar<br>(Bisleri Bottle)<br>05.03.2024<br>IS:3025 (Part | ULR No.       TC748724000004028F         PROPOSED RESIDENTIAL PROJECT       "MIRACLE"         ''MIRACLE"       Village: Ranjnoli, Tal: Bhiwandi, Dist: Thane         Drinking water       Sampling Done by         Near Office Area (Bisleri Bottle)       Sample Quantity / Packing         05.03.2024       Date of Receipt of Sample         IS:3025 (Part I), IS 1622, APHA 24* Ed. 2023         06.03.2024       Date of Completion of | ULR No.       TC748724000004028F         PROPOSED RESIDENTIAL PROJECT<br>"MIRACLE"<br>Village: Ranjnoli, Tal: Bhiwandi,<br>Dist: Thane       WO No.: Verb<br>WO Date: 01.02         Drinking water       Sampling Done by       Laboratory         Near Office Area<br>(Bisleri Bottle)       Sample<br>Quantity / Packing       2L X 1 No. PVC<br>500 mL X 1 No.<br>250 mL X 1 No.<br>Bottle         05.03.2024       Date of Receipt of<br>Sample       06.03.2024         IS:3025 (Part I), IS 1622, APHA 24* Ed. 2023       1060-B. 9060 A  |

| Sr.<br>No. | Parameter  | Unit  | Result            | FLimit     | SLimit        | Method Reference                          |
|------------|--|-------|-------------------|------------|---------------|---|
|            | Discipline: Chemical<br>Testing; Product<br>Group: Water (Drinking<br>Water) |       |                   |            |               |   |
| 1.         | Colour   | Hazen | BQL<br>(LOQ:1)    | 5 Max.     | 15 Max        | APHA 24 <sup>h</sup> Ed. 2023, 2120-B     |
| 2          | Odour  |       | Agreeable         | Agreeable  | Agreeable     | IS 3025 (Pari 05):2018                    |
| 3.         | Turbidity  | NTU   | 0.3               | 1 Max.     | 5 Max         | APHA 24th Ed. 2023, 2130-8                |
| 4          | pН   | - 27  | 6.7               | 6.5 to 8.5 | No Relaxation | APHA 24th Ed. 2023. 4500-H*-B             |
| 5          | Free Chlorine (Residual)   | mg/L  | BQL<br>(LOQ.0.05) | 0.2 Min.   | 1.0 Min.      | APHA 24 <sup>th</sup> Ed. 2023, 4500-Cl G |
| 6          | Total Suspended Solids   | mg/L  | BQL<br>(LOQ 5)    | 0K         |               | APHA 24* Ed. 2023, 2540-D                 |
| 7          | Total Dissolved Solids   | mg/L  | 97                | 500 Max    | 2000 Max      | IS 3025 (Part 16):2023                    |
| 8.         | Alkalinity Total (as CaCO <sub>5</sub> )                                     | mg/L  | 36                | 200 Max    | 600 Max.      | APHA 24* Ed. 2023, 2320-B                 |
| 9.         | Total Hardness (as<br>CaCO <sub>3</sub> )                                    | mg/L  | 56                | 200 Max.   | 600 Max       | APHA 24 <sup>th</sup> Ed. 2023, 2340-C    |
| 10.        | Chloride (as Cl)   | mg/L  | 28.0              | 250 Max    | 1000 Max      | APHA 24th Ed. 2023. 4500-CI-8             |
| 11.        | Sulphate (as SO4)  | mg/L  | 4.6               | 200 Max.   | 400 Max.      | APHA 24P Ed. 2023. 4500- SO4-E            |
| 12.        | Nitrate (as NO <sub>3</sub> )  | mg/L  | 1 10              | 45 Max.    | No Relaxation | APHA 24ª Ed. 2023, 4500-NO)-B             |

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Sagar Yeul Dy Technical Manager Technical Manager Chemical Testing

Pranali Kurve **Biological Testing** 







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### TEST REPORT

| INT A |  |
|-------|--|

Report No. ME-0366240306 ULR No .: TC748724000004028F

Date: 13.03.2024

| Sr.<br>No. | Parameter  | Unit   | Result | #Limit   | \$Limit       | Method Reference                         |
|------------|--|--------|--------|--|---------------|--|
| 13         | Calcium (as Ca)  | mg/L   | 16.0   | 75 Max.  | 200 Max.      | APHA 24" Ed. 2023, 3500-Ca-B             |
| 14         | Magnesium (as Mg)  | mg/L   | 3.9    | 30 Max.  | 100 Max.      | APHA 24th Ed. 2023, 3500-Mg-B            |
| 15         | Fluoride (as F)  | mg/L   | 0.14   | 1 Max.   | 1.5 Max.      | APHA 24 <sup>n</sup> Ed. 2023, 4500-F, D |
|            | Product Group:<br>Residues in water  |        |        |  |               |  |
| 16         | Iron (as Fe)   | mg/L   | 0.094  | 1.0 Max.   | No Relaxation | IS 3025 (Part 2), 2019                   |
|            | Discipline: Biological<br>Testing: Product<br>Group: Water (Drinking<br>water) |        |        |  |               |  |
| 17.        | Total Coliforms  | /100mL | Absent | Shail not be<br>detectable in<br>any 100 mL<br>Sample. | 28            | IS 15185:2018                            |
| 18.        | Escherichia coli   | /100mL | Absent | Shail not be<br>detectable in<br>any 100 mL<br>Sample. | 26            | IS 15185:2016                            |

- 1. BQL Below Quantification Limit. Note:
  - 2. LOQ: Limit of Quantification.
  - #: Acceptable Limit as per IS 10500 2012; RA 2018.
  - Permissible Limit in the Absence of Alternate Source as per IS 10500:2012 RA 2018
  - 5. The result listed refers only to the tested sample(s) and applicable parameter(s).
  - 6. This report is not to be reproduced except in full, without the written approval of the laboratory.
  - 7. Any complaint pertaining to the report can be addressed to mahabalreports@gmail.com

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QF/SALE/02 Issue No 03 Date 05.12.2019. Sagar Yeul Amd 03 Date 18.07.2023 Chemical Testing

Page 2 of 2

Pranali Kurve Dy Technical Manager Technical Manager **Biological Testing** 









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### TEST REPORT

|                                 |                                   |  |                              | 11               |
|---------------------------------|-----------------------------------|--|------------------------------|------------------|
| 400 1                           | Report No ::                      | ME-0369240306                              |                              | Date: 18.03.2024 |
|                                 | ULR No.                           | TC748724000004031F                         |                              | 556              |
| Name and<br>Address of Customer | "MIRACLE"                         | ESIDENTIAL PROJECT<br>noli, Tal: Bhiwandi, | WO No. Verb<br>WO Date 04.03 |                  |
| Sample<br>Description / Type    | Soil                              | Sampling Done by                           | Laboratory                   |                  |
| Sampling Location               | Near Site Area                    | Sample<br>Quantity / Packing               | 1 kg X 1 No. Po              | lyethene bag     |
| Date of Sampling                | 05 03 2024                        | Date of Receipt of<br>Sample               | 06 03 2024                   |                  |
| Sampling Procedure              | Manual of Soil<br>Agriculture, Go | Testing, Department of Agric<br>vt. India  | ulture & Cooperatio          | n, Ministry of   |
| Date of Start of<br>Analysis    | 08.03.2024                        | Date of Completion of<br>Analysis          | 18.03.2024                   |                  |
|                                 |                                   |  |                              |                  |

| Sr.<br>No. | Parameter  | Unit      | Result | Method Reference   |
|------------|--|-----------|--------|--|
|            | Discipline: Chemical<br>Testing: Product Group:<br>Pollution & Environment<br>(Soil) |           |        |  |
| 1          | pH (1+5)   | 2         | 8.0    | Physical and Chemical methods of Soil and Water Analysis<br>Food and Agriculture Organization of the United Nations<br>(FAO) Sec. III, 1, Page No 65, 1984   |
| 2          | Electrical Conductivity (1+5)  | μS/cm     | 163    | Physical and Chemical methods of Soil and Water Analysis<br>Food and Agriculture Organization of the United Nations<br>(FAO) Sec. III. 5 Page No.85: 1984  |
| 3.         | Moisture Content   | %         | 9.48   | IS 2720 (Part - II): 1973  |
| 4.         | Cation Exchange Capacity   | meq/100gm | 53.0   | Physical and Chemical methods of Soil and Water Analysis<br>Food and Agriculture Organization of the United Nations<br>(FAO) Sec. III 7-2, Sodium Saturation Flame Photometry<br>Method Page No. 104: 1984 |
| 5          | Organic Matter   | %         | 0.986  | Manual of Soil Testing, Department of Agriculture &<br>Cooperation, Ministry of Agriculture, Govt. India, Sec.4-17,<br>Page No 83: 2011  |
| 6.         | Grain Size (Texture) Sand  | %         | 43.5   | Manual of Soil Testing Department of Agriculture & Cooperation, Ministry of Agriculture Govt, India: 2011  |
| 7.         | Grain Size (Texture) Silt  | %         | 11.3   | Manual of Soil Testing Department of Agriculture &<br>Cooperation, Ministry of Agriculture Govt. India: 2011   |
| 8.         | Grain Size (Texture) Clay  | %         | 45.2   | Manual of Soil Testing Department of Agriculture &<br>Cooperation, Ministry of Agriculture Govt. India: 2011   |

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### TEST REPORT



Sr.

No. 9.

| Report No<br>ULR No.: |                 | ME-03692<br>TC748724 | 240306<br>4000004031F | Date: 18.03.2024   |
|-----------------------|-----------------|----------------------|-----------------------|--|
| Parameter             |                 | Unit                 | Result                | Method Reference   |
| Texture (Clas         | s)              | %                    | Clay                  | Manual of Soil Testing Department of Agriculture &<br>Cooperation, Ministry of Agriculture Govt. India |
| A                     | 25.56 S 3 4 5 5 |                      | 10000                 |  |

|     |                       |            |       | Cooperation, Ministry of Agriculture Govt. India   |
|-----|-----------------------|------------|-------|--|
| 10. | Available Phosphorous | mg/kg      | 45.4  | Physical and Chemical methods of Soil and Water Analysis<br>Food and Agriculture Organization of the United Nations<br>(FAO) Sec. III, 12 – 1, Sodium Bicarbonate Extraction<br>Otsen Blue Method Page No.157.: 1984     |
| 11. | Total Phosphate       | mg/kg      | 685   | Manual for method of water, Soil and Plant analysis WL II,<br>Page No 16: 2006   |
| 12  | Available Calcium     | meq/100gm  | 42.3  | Physical and Chemical methods of Soil and Water Analysis<br>Food and Agriculture Organization of the United Nations<br>(FAO) Sec. III, 8 - 1 Ammonium Acetate Extraction Titration<br>Method, Page No. 115: 1984         |
| 13. | Available Magnesium   | meq/ 100gm | 9.09  | Physical and Chemical methods of Soil and Water Analysis<br>Food and Agriculture Organization of the United Nations<br>(FAO) Sec. III, 8 - 1 Ammonium Acetate Extraction Titration<br>Method, Page No. 115: 1984         |
| 14. | Available Sodium      | meq/100gm  | 1.0   | Physical and Chemical methods of Soil and Water Analysis<br>Food and Agriculture Organization of the United Nations<br>(FAO) Sec. III, 8 - 1 Ammonium Acetate Extraction Flame<br>Photometric Method, Page No. 115: 1984 |
| 15. | Available Nitrogen    | mg/kg      | 257   | Manual of Soil Testing, Department of Agriculture &<br>Cooperation, Ministry of Agriculture, Govt. India, Sec.4 -17,<br>Page No 89: 2011   |
| 16. | Available Potassium   | meq/100gm  | 0.548 | Physical and Chemical methods of Soil and Water Analysis<br>Food and Agriculture Organization of the United Nations<br>(FAO) Sec. III, 8 - 1 Ammonium Acetate Extraction Flame<br>Photometric Method, Page No. 115: 1984 |
| 17. | Total Copper          | mg/kg      | 101   | US EPA/SW 846 Method 30508 1996, 7000B Rev.02: 2007  |
| 18. | Total Iron            | mg/kg      | 92732 | US EPA/SW 846 Method 30506 1996, 70008 Rev 02: 2007  |
| 19. | Total Zinc            | mg/kg      | 93.1  | US EPA/SW 846 Method 3050B 1996, 7000B Rev 02: 2007  |

#### END OF REPORT

Note: 1. BQL: Below Quantification Limit.

2. LOQ: Limit of Quantification.

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- 4. The result listed refers only to the tested sample(s) and applicable parameter(s).
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### TEST REPORT

| 4000                            | Report No  | ME-0369240306N                    |                                       | Date: 18.03 2024 |  |
|---------------------------------|--|-----------------------------------|---------------------------------------|------------------|--|
| 0735                            | ULR No.:   | •                                 |                                       | 191              |  |
| Name and<br>Address of Customer | PROPOSED RESIDENTIAL PROJECT<br>"MIRACLE"<br>Village: Ranjnoli, Tal: Bhiwandi,<br>Dist: Thane            |                                   | WO No.: Verbal<br>WO Date: 04 03,2024 |                  |  |
| Sample<br>Description / Type    | Soil   | Sampling Done by                  | Laboratory                            |                  |  |
| Sampling Location               | Near Site Area   | a Sample<br>Quantity / Packing    | 1 kg X 1 No. Polyethene bag           |                  |  |
| Date of Sampling                | 05.03.2024   | Date of Receipt of<br>Sample      | of 06.03.2024                         |                  |  |
| Sampling Procedure              | Manual of Soil Testing, Department of Agriculture & Cooperation, Ministry of<br>Agriculture, Govt. India |                                   |                                       |                  |  |
| Date of Start of<br>Analysis    | 08.03.2024   | Date of Completion of<br>Analysis | 18:03:2024                            |                  |  |
|                                 |  |                                   |                                       |                  |  |

| Sr.<br>No. | Parameter  | Unit  | Result            | Method Reference  |
|------------|--|-------|-------------------|---|
|            | Discipline: Chemical<br>Testing; Product Group:<br>Pollution & Environment<br>(Soil) |       |                   |   |
| 1          | Free Lime  | %     | 0.141             | FAO Sec. III. Page nc-71  |
| 2.         | Total Sulphur  | %     | BQL<br>(LOQ 0.02) | IBM Manual of Procedure for Chemical & Instrumental<br>Analysis of Ore, Minerals & Environmental Sample Sec<br>6027 Pg. No. 278 |
| З          | Total Manganese  | mg/kg | 67320             | US EPA/SW 846 Method 3050B 1996, 7000B Rev.02<br>2007   |

#### END OF REPORT

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