

01.12.2021

To,  
The Additional Director(s),  
The Ministry of Environment & Forests & Climate Change (MoEF & CC)  
Regional Office (WCZ), Ground Floor,  
East Wing, New Secretariat Building,  
Civil Lines, Nagpur  
Maharashtra – Pin 440001

**Sub.:** Submission of Half Yearly Post EC Compliance Report for Period – **APRIL 2021 TO SEPTEMBER 2021** by email to [eccompliance-mh@gov.in](mailto:eccompliance-mh@gov.in)

**Ref.:** Environment Clearance vide Letter No. SEIAA EC 0000000658 dated 1<sup>ST</sup> February 2019 for Construction of Project of "M/s Joyville Shapoorji Housing Pvt. Ltd. – PLO1 # 1" at S. No. 98/1(P), 98/2, 99/1, 99/2(P), 99/3(P), 99/4(P), 101/2(P) & 101/3 at Village Mann, Taluka Mulshi, Dist.- Pune Maharashtra, Pin 411057.

Dear Sir,

Refer to mentioned subject line, herewith we are submitting **Half Yearly Post EC Compliance Report for APRIL 2021 TO SEPTEMBER 2021** Period for our project of "M/s Joyville Shapoorji Housing Pvt. Ltd. – PLOT # 1" at S. No. 98/1(P), 98/2, 99/1, 99/2(P), 99/3(P), 99/4(P), 101/2(P) & 101/3 at Village Mann, Taluka Mulshi, Dist.- Pune Maharashtra, Pin 411057.

Kindly acknowledge the same.

Thanking You.

Yours Faithfully,

For Joyville Shapoorji Housing Pvt. Ltd.

  
Authorised Signatory



**ENCL:**

1. Part A – Current Status
2. Part B - Pointwise compliance status
3. Part C – Enclosures
4. Part D – Annexures

Copy forwarded to

- 1) MPCB Regional Office, MUMBAI.

**Joyville Shapoorji Housing Private Limited, Site Office:** Maan, Near Phase 1, Hinjawadi, Pune-411057.

**CIN:** U70109MH2007PTC166942 | **Regd. Office:** SP Centre, 41/44, Minoo Desai Marg, Colaba, Mumbai-400005. **Tel:** +91-22-67490000



**MahaRERA numbers:** P52100018502 - Alpine | P52100018500 - Sierra | P52100016252-Pinnacle | P52100016131-Summit  
P52100016775-Crest | P52100016786-Meridian. For details visit: <https://maharera.mahaonline.gov.in>

01.12.2021

To,

Maharashtra Pollution Control Board  
Kalpataru Point, 1st floor,  
Opp. PVR Theatre, Sion (E),  
Mumbai-400022, Maharashtra

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- 2) Part B - Pointwise compliance status
- 3) Part C – Enclosures
- 4) Part D – Annexures

Copy forwarded to  
MOEF&CC Regional Office, Nagpur – by email.

**Joyville Shapoorji Housing Private Limited, Site Office:** Maan, Near Phase 1, Hinjawadi, Pune-411057.

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P52100016775-Crest | P52100016786-Meridian. For details visit: <https://maharera.mahaonline.gov.in>

# **PART A**

## **CURRENT STATUS OF WORK**

## CURRENT STATUS OF WORK PART A

| Building Status                                                                                                                                                                                                            | Status of the Environmental Management Facilities                                                                                                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"><li>Plot 1<br/>No. of buildings Work in Progress : 6 Nos. of building in progress.<br/>Construction Planning<br/>Started in = February 2019<br/>Completion by = September 2022</li></ul> | <ul style="list-style-type: none"><li>✓ STP of capacity 700 KLD is proposed</li><li>✓ RWH Recharge tank is provided for harvesting Rain water</li><li>✓ Use of Solar panel is proposed to possible extent.</li></ul> |

# **PART B**

## **POINT WISE COMPLIANCE STATUS**

## PART B

**2. Point wise compliance status to various stipulations laid down by the Ministry in its clearance letter SEIAA-EC-0000000658 are as follows:**

| Sr. No | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                       | Status                                                                                                                                                       |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | <b>General Condition for Pre-Construction Phase:</b>                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                              |
| (I)    | E-waste shall be disposed through Authorized vendor as per E-waste management & Handling Rules,2016                                                                                                                                                                                                                                                                                                                                             | Noted & Obeyed.                                                                                                                                              |
| (II)   | The Occupancy certificate shall be issued by 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.                                                                                                                                                                              | Noted.                                                                                                                                                       |
| (III)  | This environmental clearance is issued subject to Obtaining NOC from Forestry & Wildlife angle including clearance from the standing committee of the National Board for Wild life as if applicable & this environment clearance does not necessarily implies that Forestry & Wild life clearance granted to the project which will be considered separately on merit.                                                                          | Environmental Clearance Obtained videletter No. <b><u>SEIAA-EC-0000000658.</u></b><br>Dated on 1 <sup>st</sup> Feb 2019.<br><b>Please refer Enclosure II</b> |
| (IV)   | PP has to abide by the conditions stipulated by SEAC & SEIAA.                                                                                                                                                                                                                                                                                                                                                                                   | Noted                                                                                                                                                        |
| (V)    | The height, Construction built up area of proposed construction shall be in accordance with the existing FSI/FAR norms of the urban local body & it should ensure the same along with survey number before approving layout plan & before according commencement certificate to proposed work. Plan approving authority should also ensure the zoning permissibility for the proposed project as per the approved development plan of the area. | Height, built up area of construction is accordance with the existing FSI /FAR norms.                                                                        |
| (VI)   | If Applicable “Consent for establishment” shall be obtained from Maharashtra Pollution Control Board under air Water Act and a copy shall be submitted to the environment department before start the construction work at the site.                                                                                                                                                                                                            | Consent to Establish No:<br><b>Format 1.0/BO/RO_HQ/CC-1901002430.</b><br><b>Date-31/01/2019.</b><br><b>Please Refer Enclosure No.3</b>                       |

| Sr. No | Condition                                                                                                                                                                                                                                                                       | Status                                                                                                                                                             |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (VII)  | All required sanitary and hygienic measures should be in place before starting construction activities and to be maintained throughout the construction phase.                                                                                                                  | All the necessary hygienic facilities have been provided as required for the site staff. Toilets are provided at site for workers. Please refer <b>Annexure I.</b> |
| (XIII) | 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.               | Yes, Regular supply of Drinking water is made available at site and toilets are provided at site for workers. <b>Please refer the Annexure II.</b>                 |
| (IX)   | The solid waste generated should be properly collected and segregated. Dry/inert solid waste should be disposed off to the approved sites for land filling after recovering recyclable material.                                                                                | Solid waste generated is collected separately, dry waste disposed by local body & wet waste treated in OWC.                                                        |
| (X)    | Disposal of muck during construction phase should not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety & health aspects of people, only in approved sites with the approval of competent authority. | Yes, Noted<br>All the Excavated material is used for leveling of site and open spaces within the site.                                                             |
| (XI)   | Arrangement shall be made that waste water and storm water do not get mixed.                                                                                                                                                                                                    | Separate drainage system provided for both water lines. Waste water getting treated through STP and Storm water is connected to recharge pits.                     |
| (XII)  | All the topsoil excavated during construction activities should be stored for use in horticulture / landscape development within the project site.                                                                                                                              | All the topsoil excavated material is used for land leveling. Top Soil was used for landscaping & stores the project premises area.                                |
| (XIII) | Additional soil for leveling of the proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improved.                                                                                           | Excess excavated material and construction waste is used for leveling.                                                                                             |
| (XIV)  | Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.                                                                                                          | Different types of trees planted open plot area.                                                                                                                   |
| (XV)   | Soil and ground water sample will be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.                                                                                                              | Project team has ensured to do these compliances by testing from MoEF approved laboratories at appropriate stages.                                                 |

|         |                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                               |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (XVI)   | Construction spoils, including bituminous material and other hazardous material must not be allowed to contaminate watercourses and the dumpsites for such material must be secured so that they should not leach into the ground water.                                                                                                                                     | We are not using any bituminous material/ hazardous material of any type at the site.                                                                                                                         |
| (XVII)  | Any hazardous waste generated during construction phase should be disposed off as per applicable rules and norms with necessary approvals of the Maharashtra Pollution Control Board.                                                                                                                                                                                        | No any hazardous waste was generated during construction phase.                                                                                                                                               |
| (XVIII) | The diesel generator sets to be used during construction phase should be low sulphur diesel type and should conform to Environment (Protection) Rules prescribed for air and noise emission standards.                                                                                                                                                                       | The acoustically enclosed diesel type generator sets which uses Low Sulphur diesel are being used which confirms to the rules Environment (Protection) Rules prescribed for air and noise emission standards. |
| (XIX)   | The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from concern authority shall be taken.                                                                                                                                                                                                                             | DG sets are used only during power failure & diesel is stored with necessary precautions.                                                                                                                     |
| (XX)    | Vehicles hired for bringing construction material to the sites should be in good condition and should have pollution check certificate and should conform to applicable air and noise emission standards and should be operated only during non-peak hours.                                                                                                                  | Standard of construction vehicles are checked regularly including PUC certificate.                                                                                                                            |
| (XXI)   | Ambient noise levels should conform to residential standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase. Adequate measures should be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/MPCB. | Ambient air and noise Monitoring report enclosed.<br>Please refer <b>Annexure III</b> .                                                                                                                       |
| (XXII)  | Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September 1999 and amended as on 27 <sup>th</sup> August, 2003.( The above condition is applicable only if the project site located within the 100 km of Thermal Power Stations).                                                                            | We are using fly ash in construction work.                                                                                                                                                                    |
| (XXIII) | Ready mix concrete must be used in building construction.                                                                                                                                                                                                                                                                                                                    | We are using ready mix concrete in for construction.                                                                                                                                                          |
| (XXIV)  | Strom water control and its re-use as per CGWB and BSI Standards for various applications.                                                                                                                                                                                                                                                                                   | Connected to Recharge Pits.                                                                                                                                                                                   |



|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                 |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (XXV)    | Water demand during construction should be reduce by use of pre-mixed concrete, curing agents and other best practices referred.                                                                                                                                                                                                                                                                                                                                                                                                                               | Best practices to reduce water demand during construction phase are being adopted.                                                                                                              |
| (XXVI)   | The ground water level and its quality should be monitored regularly in consultation with Ground water Authority.                                                                                                                                                                                                                                                                                                                                                                                                                                              | Bore well water is not used. Hence ground water authority is not applicable.                                                                                                                    |
| (XXVII)  | 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 Ministry before the project is commissioned for operation. Discharged of this unused treated affluent, if any should be discharged in the sewer line. Treated effluent emanating from STP shall be recycled/ refused to the maximum extent possible. Treatment of 100% gray water by decentralized treatment should be done. Necessary measures should be made to mitigate the odor problem from STP. | Sewage Treatment Plant of 700 KLD capacity is proposed for project.<br><br>The sewage will be treated and will be reused for gardening purpose and flushing.<br><br>STP outlet report enclosed. |
| (XXVIII) | Permission to draw ground water & construction of basement if any shall be obtained from the competent authority prior to construction / operation of the project.                                                                                                                                                                                                                                                                                                                                                                                             | No use ground water, so this is not applicable for us.                                                                                                                                          |
| (XXIX)   | Separation of gray and black water should be done by the use of dual plumbing line for separation of gray and black water.                                                                                                                                                                                                                                                                                                                                                                                                                                     | 100% separation done on site. Project is under construction stage. Project design has ensured compliance of this condition.                                                                     |
| (XXX)    | Fixtures for showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control.                                                                                                                                                                                                                                                                                                                                                                                                       | We have provided taps, showers with aerators and dual flushing tanks. Project is under construction stage. Project design has ensured compliance of this condition.                             |
| (XXXI)   | Use of glass may be reduced up to 40% to reduced electricity consumption and load on air conditioning. If necessary, use high quality double glass with special reflective coating in windows.                                                                                                                                                                                                                                                                                                                                                                 | Plain glass is used. Project is under construction stage. Project design has ensured compliance of this condition.                                                                              |
| (XXXII)  | Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill requirement.                                                                                                                                                                                                                                                                                                                                                                                                    | Roof is designs as per Structural remit, 200 mm thick slab with waterproofing and thermal textiles / or China mosaic tiles are provided.                                                        |
| (XXXIII) | Energy conservation measures like installation of CFLs /TFLS for the lighting areas outside the building should be integral part of project design and should be in place before project commissioning. Use CFLs                                                                                                                                                                                                                                                                                                                                               | Energy Conservation measures:<br>1. Use of CFL in thePassages/Toilets<br>2. Use of Solar Power for water heating.                                                                               |

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                        |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           | and TFLs should be properly collected and disposed off/ sent for recycling as per the prevailing guidelines/ rules of regulatory authority to avoid mercury contamination. Use of solar panels may be done to the extent possible like installing solar street lights, common solar water heaters system. Project proponents should install, after checking feasibility, solar plus hybrid non conventional energy sources as sources of energy.                                                | 3. Common area lighting with LED bulbs<br>The project is recertified GOLD rated under IGBC's Green Affordable Housing Rating system March 2018- IGBC project registration number - GAH 18 1011         |
| (XXXIV)   | Diesel power generating sets proposed as sources of backup power for elevators and common area illumination during operation phase should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use low sulphur diesels. The location of the DG sets may be decided with in consultation with Maharashtra Pollution Control Board. | DG set at site (in case of emergency work only & to be used in case of Grid supply failure) are provided with acoustic canopy & confirming the rules made under the Environment (Protection) Act 1986. |
| (XXXV)    | Noise should be controlled to ensure that it does not exceed the prescribed standards. During nighttime the noise levels measured at the boundary of the building shall be restricted to the permissible level to comply with the prevalent regulation.                                                                                                                                                                                                                                         | Yes, Noise monitoring report is enclosed.<br><b>Please, refer the Annexure no III.</b>                                                                                                                 |
| (XXXVI)   | 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.                                                                                                                                                                                                                                                                                              | No use of public spaces.<br>Internal parking is provided.                                                                                                                                              |
| (XXXVII)  | Opaque wall should meet prescriptive requirement as per Energy Conservation Building Code, which is proposed to be mandatory for all air-conditioned spaces while it is inspirational for non air – conditioned spaces by use of appropriate thermal insulation material to fulfill requirement.                                                                                                                                                                                                | Project is under construction stage.<br>Project design has ensured compliance of this condition.                                                                                                       |
| (XXXVIII) | The building should have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation.                                                                                                                                                                                                                                                                                                                                                       | We have maintained Sufficient distance between two buildings – which facilitate movement of fresh air, light & ventilation.                                                                            |

|         |                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                  |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (XXXIX) | 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 surrounding.                                                                                                                                                                                                             | Construction work is being supervised by Project Engineer and qualified supervisors.                                                                             |
| (XL)    | Under the provision 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 environment clearance.                                                                                                                                                  | Environmental Clearance Obtained vide letter No.<br><b><u>SEIAA-EC-0000000658.</u></b><br>Dated on 1 <sup>st</sup> Feb 2019.<br><b>Please refer Enclosure II</b> |
| (XLI)   | Six monthly monitoring reports should be submitted to the Regional office MoEF, Bhopal with copy to this department and MPCB.                                                                                                                                                                                                                                                        | We will be forward monitoring reports regularly to MPCB.                                                                                                         |
| (XLII)  | Project proponent shall ensure completion of STP, MSW disposal facility, green belt development, prior to occupation of the buildings. No physical occupation or allotment will be given unless all above said environmental infrastructure is installed and made functional including water requirement in Para.2 Prior certification from appropriate authority shall be obtained. | Project is under construction stage.<br>Project design has ensured compliance of this condition.                                                                 |
| (XLIII) | Wet garbage should be treated by organic waste convertor and treated waste (manure) should be utilized in the existing premises for gardening. And no wet garbage will be disposed outside the premises. Local authority should ensure this.                                                                                                                                         | For labor camp, Storage done at site and vendor come and collect on daily basis.<br>OWC will be provide for treatment of wet garbage on site.                    |
| (XLIV)  | Local body should ensure that no occupation Certification is issued prior to operation of STP/ MSW site etc. with due permission of MPCB.                                                                                                                                                                                                                                            | Noted & will be obeyed.                                                                                                                                          |
| (XLV)   | A complete set of all documents submitted to the department should be forwarded to the Local authority & MPCB.                                                                                                                                                                                                                                                                       | We are submitting 6 monthly reports regularly along with necessary documents.                                                                                    |
| (XLVI)  | In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Department.                                                                                                                                                                                                                                                            | No any changes in project.                                                                                                                                       |
| (XLVII) | A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards                                                                                                                                                                                                                                            | Environmental Management Cell is being supervised by Project Engineer and qualified supervisors.                                                                 |

|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                               |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| (XLVIII) | Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise break-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year- wise expenditure should reported to the MPCB & this department.                                                                                                                                                                                                                                           | Please refer <b>Part III</b> .                                                |
| (XLIX)   | 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 <a href="http://ec.maharashtra.gov.in">http://ec.maharashtra.gov.in</a> .                                                                                         | Advertisement has been attached.                                              |
| (L)      | Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1 <sup>st</sup> June & 1 <sup>st</sup> December of each calendar year.                                                                                                                                                                                                                                                                                                                                    | We are submitting 6 monthly reports regularly along with necessary documents. |
| (LI)     | 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.                                                                                                                                                                                                                                                                                                  | Yes, we have submitting Environmental Clearance copy to Local Authority.      |
| (LII)    | The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO <sub>2</sub> , NO <sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain. | Yes, noted and obeyed.                                                        |
| (LIII)   | The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data                                                                                                                                                                                                                                                                                                                                                                                                                                                     | We are submitting 6 monthly reports regularly along with necessary documents. |

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                        |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
|       | (both in hard copies as well as by e-mail) to the respective Regional office of MoEF, the respective Zonal Office of CPCB and the SPCB.                                                                                                                                                                                                                                                                                                                                                            |                                                                                        |
| (LIV) | 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.                                    | Yes. Submitted.                                                                        |
| (LV)  | SEEIA decided to grant EC for : FSI: 65898.72m2, Non FSI: 50268.05m2 and total BUA 116166.77m2                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                        |
| 4.    | The environmental clearance is being issued without prejudice to the action initiated under EP Act or any court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision under EP Act or of the Hon'ble court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him. If any or action initiated under EP act. | No any court case regarding project.                                                   |
| 5.    | In case of submission of false document and non compliance of stipulated conditions, Authority/Environment Department will revoke or suspend the Environmental clearance without any intimation and initiate appropriate legal action under Environmental protection Act, 1986.                                                                                                                                                                                                                    | No any false documents and non compliance of stipulated conditions regarding project.  |
| 6.    | The Environment department reserves the right to add any stringent condition or to revoke the clearance if condition stipulated is not implemented to the satisfaction of the department or for that matter, for other administration reason.                                                                                                                                                                                                                                                      | Noted & agreed.                                                                        |
| 7.    | <b>Validity of environmental clearance:</b> The environmental Clearance accorded shall be valid as per EIA Notification, 2006, and amendments by MoEF & CC                                                                                                                                                                                                                                                                                                                                         | Environmental Clearance Obtained vide letter No.<br><b><u>SEIAA-EC-0000000658.</u></b> |

|    |                                                                                                                                                                                                                                                                                                                                                                           |                                                                        |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
|    | Notification dated 29 <sup>th</sup> April, 2015.                                                                                                                                                                                                                                                                                                                          | Dated on 1 <sup>st</sup> Feb 2019.<br><b>Please refer Enclosure II</b> |
| 8. | In case any deviation or alteration in the project proposed from those submitted to this department for clearance, fresh reference should be made to the department to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.                                                                  | Noted & agreed.                                                        |
| 9. | The above stipulation 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 their under, hazardous waste(Management and Handling) Rules,1989 and it's amendment, the Public Liability Insurance Act, 1991 and its amendments. | Noted                                                                  |
| 10 | Any appeal against this Environment clearance shall lie with the National Green Tribunal (Western Zone Bench, Pune),New Administrative Building, 1stFloor, D-, Wing, Opposite Council Hall, Pune, if preferred, Within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.                                                                   | Noted & agreed.                                                        |

Please find all the above mentioned in order and kindly acknowledge the receipt of the same.

**Thanking you,**

Yours Sincerely,

**For M/s. Joyville Shapoorji Housing Pvt. Ltd.**

# PART C

| ENCLOSURE NO. | ENCLOSURES                                   |
|---------------|----------------------------------------------|
| Enclosure 1   | DATASHEETINFORMATWITHPART-I,PART-II&PART-III |
| Enclosure 2   | ENVIRONMENTAL CLEARANCE COPY                 |
| Enclosure – 3 | CONSENT TO ESTABLISH                         |
| Enclosure -4  | PMRDA CERTIFICATE                            |

# **ENCLOSURE-I**

**Data Sheet in format with Part-I, Part-II  
& Part-III**



Monitoring the Implementation of Environmental Safeguards Ministry of  
Environment & Forest

West-Central Zone, Regional Office, Nagpur

**DATA SHEET**

Date -: 28/11/2021

|    |                                                                                                                                                                                                       |                                                                                               |   |                                                                                                                                                                                                                                                                                                                           |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Projecttype: River -valley/ Mining / Industry / Thermal / Nuclear / Other (specify)                                                                                                                   |                                                                                               | : | Construction Project                                                                                                                                                                                                                                                                                                      |
| 2. | Name of the project                                                                                                                                                                                   |                                                                                               | : | "M/s. Joyville Shapoorji Housing Pvt.Ltd.                                                                                                                                                                                                                                                                                 |
| 3. | Clearance letter ( s ) / OM No. and Date                                                                                                                                                              |                                                                                               | : | Environmental Clearance No.<br><b><u>SEIAA- EC-0000000658</u></b><br>Dated on 1 <sup>st</sup> Feb 2019.                                                                                                                                                                                                                   |
| 4. | Location                                                                                                                                                                                              |                                                                                               | : |                                                                                                                                                                                                                                                                                                                           |
|    | a.                                                                                                                                                                                                    | District ( S )                                                                                | : | Pune                                                                                                                                                                                                                                                                                                                      |
|    | b.                                                                                                                                                                                                    | State ( s )                                                                                   | : | Maharashtra                                                                                                                                                                                                                                                                                                               |
|    | c.                                                                                                                                                                                                    | Latitude/ Longitude                                                                           | : | 18.569332<br>73.721703                                                                                                                                                                                                                                                                                                    |
| 5. | Address for correspondence                                                                                                                                                                            |                                                                                               | : |                                                                                                                                                                                                                                                                                                                           |
|    | a.                                                                                                                                                                                                    | Address of Concerned Project Chief Engineer ( with pin code & Telephone / telex / fax numbers | : | Mr. Saurabh Katekar (GeneralManager – Projects)<br>M/s Joyville Shapoorji Housing Pvt. Ltd.<br>S.No.98/I(P),98/1,99/2(P),99/3(P),99/4(P),101/2(P) & 101/3 at Village Name – Mann, Tal. Mulshi, Dist. Pune, Maharashtra-411057<br>e-mail: <a href="mailto:Saurabh.katekar@shapoorji.com">Saurabh.katekar@shapoorji.com</a> |
|    | b.                                                                                                                                                                                                    | Address of Executive Project: Engineer/Manager (with pincode/ Fax numbers )                   | : | Mr.RameshMane(SeniorManager–Projects) M/s Joyville Shapoorji HousingPvt. Ltd.<br>S.No.98/I(P),98/1,99/2(P),99/3(P),99/4(P),101/2(P)&101/3atVillageName–Mann,Tal. Mulshi, Dist. Pune, Maharashtra – 411057 e-mail: <a href="mailto:ramesh.mane@shapoorji.com">ramesh.mane@shapoorji.com</a>                                |
| 6. | Salient features                                                                                                                                                                                      |                                                                                               | : |                                                                                                                                                                                                                                                                                                                           |
|    | a.                                                                                                                                                                                                    | of the project                                                                                | : | PART-I                                                                                                                                                                                                                                                                                                                    |
|    | b.                                                                                                                                                                                                    | of the environmental management plans                                                         | : | PART-I                                                                                                                                                                                                                                                                                                                    |
| 7. | Breakup of the project area                                                                                                                                                                           |                                                                                               | : |                                                                                                                                                                                                                                                                                                                           |
|    | a.                                                                                                                                                                                                    | submergence area forest & non-forest                                                          | : | Not Applicable                                                                                                                                                                                                                                                                                                            |
|    | b.                                                                                                                                                                                                    | Others                                                                                        | : | PART -I                                                                                                                                                                                                                                                                                                                   |
| 8. | Breakup of the project affected Population with enumeration of Those losing houses / dwelling units Only agricultural land only, both Dwelling units & agricultural Land & landless labourers/artisan |                                                                                               | : | Not Applicable.                                                                                                                                                                                                                                                                                                           |
|    | a.                                                                                                                                                                                                    | SC, ST/Adivasis                                                                               | : | Not Applicable                                                                                                                                                                                                                                                                                                            |

|     |                                                                                                                                               |                                                                                                                                                                                                          |   |                        |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------------------------|
|     | b.                                                                                                                                            | Others<br>(Please indicate whether these Figures are based on any scientific And systematic survey carried out Or only provisional figures, it a Survey is carried out give details And years of survey) | : | Not Applicable         |
| 9.  | Financial details                                                                                                                             |                                                                                                                                                                                                          | : |                        |
|     | a.                                                                                                                                            | Project cost as originally planned and subsequent revised estimates and the year of price reference :                                                                                                    |   |                        |
|     | 1.                                                                                                                                            | Total Cost of the Project                                                                                                                                                                                | : | Rs. 321.90 Cr          |
|     | b.                                                                                                                                            | Allocation made for environmental management plans with item wise and year wise Break-up.                                                                                                                | : | Nov 2018               |
|     | c.                                                                                                                                            | Benefit cost ratio / Internal rate of Return and the year of assessment                                                                                                                                  | : | Not Applicable         |
|     | d.                                                                                                                                            | Whether ( c ) includes the Cost of environmental management as shown in the above.                                                                                                                       | : | Yes                    |
|     | e.                                                                                                                                            | Actual expenditure incurred on the project so far                                                                                                                                                        | : | Please refer Part III. |
|     | f.                                                                                                                                            | Actual expenditure incurred on the environmental management plans so far                                                                                                                                 | : | Please refer Part III. |
| 10. | Forest land requirement                                                                                                                       |                                                                                                                                                                                                          | : | Not Applicable         |
|     | a.                                                                                                                                            | The status of approval for diversion of forest land for non-forestry use                                                                                                                                 | : | Not Applicable         |
|     | b.                                                                                                                                            | The status of clearing felling                                                                                                                                                                           | : | Not Applicable         |
|     | c.                                                                                                                                            | The status of compensatory a forestation, it any                                                                                                                                                         | : | Not Applicable         |
|     | d.                                                                                                                                            | Comments on the viability & sustainability of compensatory a forestation program in the light of actual field experience so far                                                                          | : | Not Applicable         |
| 11. | The status of clear felling in Non-forest areas (such as submergence area of reservoir, approach roads), it any with quantitative information |                                                                                                                                                                                                          | : | Not Applicable         |
| 12. | Status of construction                                                                                                                        |                                                                                                                                                                                                          | : |                        |
|     | a.                                                                                                                                            | Date of commencement ( Actual and/or planned )                                                                                                                                                           | : | 2018                   |
|     | b.                                                                                                                                            | Date of completion ( Actual and/or planned )                                                                                                                                                             | : | 2022                   |
| 13. | Reasons for the delay if the Project is yet to                                                                                                |                                                                                                                                                                                                          | : | NA                     |

|     |                                                                                                                                                                                                       |                                                                                                   |                           |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------|
|     | start                                                                                                                                                                                                 |                                                                                                   |                           |
| 14  | Dates of site visits                                                                                                                                                                                  | :                                                                                                 |                           |
|     | a.                                                                                                                                                                                                    | The dates on which the project was monitored by the Regional Office on previous Occasions, if any | : Not visited yet         |
|     | b.                                                                                                                                                                                                    | Date of site visit for this monitoring report                                                     | : May 2021<br>August 2021 |
| 15. | Details of correspondence with Project authorities for obtaining Action plans/information on Status of compliance to safeguards Other than the routine letters for Logistic support for site visits ) |                                                                                                   | : Not Applicable          |
|     | (The first monitoring report may contain the details of all the Letters issued so far, but the Later reports may cover only the Letter is issued subsequently.)                                       |                                                                                                   | :                         |

## PART I

## PROJECT DETAILS

|                                                                           |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------------------------------------------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name &amp; Location</b>                                                | : | "M/s. Joyville Shapoorji Housing Pvt. Ltd.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Total no. Of workers to be employed during the construction phase.</b> | : | 630 Workers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Estimated Project cost</b>                                             | : | Rs. 321.90 Cr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Plot Area Breakup</b>                                                  | : | <p>Total Plot Area: 33017.30 m<sup>2</sup></p> <p>Deduction : 00</p> <p>Net Plot area: 33017.30 m<sup>2</sup> Built up</p> <p>Area:116166.77 m<sup>2</sup> FSI area (sq. m.):</p> <p>65898.72 m<sup>2</sup></p> <p>Non FSI area(sq. m.): 50268.05 m<sup>2</sup> Total BUA</p> <p>area (sq. m.): 116166.77 m<sup>2</sup></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Water Requirement and Sources</b>                                      | : | <p>Residential :</p> <p><b>Dry Season:</b></p> <p>Source of water- Irrigation Dept.Fresh water (CMD): 564 CMD</p> <p>Recycled water-Flushing(CMD): 238 CMD Recycled water -Gardening (CMD): 99 CMD Swimming pool make up: 10 KLD</p> <p>Total Water Requirement (CMD):803 CMD</p> <p>Firefighting -Underground water tank(CMD): 400 KLD Fire fighting -Overhead water tank(CMD): 10 KLD Excess treated water : 254 CMD</p> <p><b>Wet Season:</b></p> <p>Source of water : Irrigation Dept.Fresh water (CMD): 564 CMD</p> <p>Recycled water -Flushing (CMD): 238 CMD Recycled water -Gardening (CMD):00 Swimmingpool make up (Cum): 10 KLD Total Water Requirement (CMD): 803 CMD</p> <p>Firefighting -Underground water tank(CMD): 400 KLD Fire fighting -Overhead water tank(CMD): 10 KLD Excess treated water – 353 CMD</p> |



## PART II

**Environmental Management Plan**

| Environmental Component | Phase              | Project Activity                          | Potential Impacts                                          | Mitigation Measures                                                                                                                                                          |
|-------------------------|--------------------|-------------------------------------------|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Air Quality             | Construction Phase | Site Clearance / Operation                | Dust Pollution                                             | Wetting of area before clearing. Erecting barricade around construction site.                                                                                                |
|                         |                    | Heavy vehicle Maintenance / operation     | Air Pollution<br>Dust generation.                          | Trucks carrying earth, sand or stone shall be covered with tarpaulin to avoid spilling. All vehicles should have valid PUC                                                   |
|                         |                    | Construction of Structures and earth work | Dust due to cutting and filling.                           | Water should be sprayed while construction activity is going on. All vehicles delivering materials should be properly covered. RMC will be used throughout the construction. |
|                         | Operation Phase    | Traffic plying on road                    | Increase in Air Pollutant Concentration in some locations. | Smooth flow of traffic, Regulation of air pollution by legislation and public awareness.                                                                                     |
|                         |                    | DG Set operation                          | Air Pollution                                              | DG Sets adhering to CPCB Norms. Proper maintenance of DG Sets.                                                                                                               |
|                         |                    |                                           |                                                            |                                                                                                                                                                              |
| Noise Quality           | Construction Phase | Heavy vehicle maintenance / operation     | Increased vehicular noise                                  | The vehicles used for construction activity should conform to emission norms of CPCB.                                                                                        |
|                         |                    | Construction of structures and earth work | Noise from Vibrators, Concrete Batching Plants etc.        | Employing electrically operated construction equipment. Providing ear plugs for workers.                                                                                     |
|                         | Operation Phase    | Vehicular traffic                         | Increased vehicular noise due to increased                 | Ensuring smooth flow of traffic. Parking provided as per norms.                                                                                                              |

| Environmental Component | Phase              | Project Activity                         | Potential Impacts                                                               | Mitigation Measures                                                                                                                                                                                |
|-------------------------|--------------------|------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                         |                    |                                          | traffic                                                                         | Provision of trees along the periphery of the boundary wall shall Act as noise buffer.                                                                                                             |
|                         |                    | DG Set operation                         | Increased noise level                                                           | DG Sets adhering to CPCB Norms.<br>Proper maintenance of DG Sets.                                                                                                                                  |
| Water                   | Construction Phase | Construction Staff water requirement     | Strain on the water supply in the vicinity                                      | Drinking water shall be purchased from market by tankers./ By municipality supply.                                                                                                                 |
|                         | Operation Phase    | Building users water requirement         | Strain on the water supply in the vicinity.                                     | By municipality supply by tankers or by recycled water fromSTP.                                                                                                                                    |
| Soil                    | Construction Phase | Storage of petroleum and other chemicals | Pollution due to spills and mixing of construction materials                    | Storage of all petroleum products must be located on impervious layers viz. concrete. We have provision of Spillage control kit, Secondary bund wall and collection pit at Chemical storage room.. |
|                         |                    | Construction Debris and Earth material   | Pollution due to mixing of concrete with soil                                   | Concrete and such debris should be stored in a container or separate location within the site and finally sent to disposal site.                                                                   |
|                         |                    | Transportation of hazardous material     | Hazardous chemicals from accidental spills polluting surface water body nearby. | Transpiration of hazardous material and storage as per safety rules.<br>Regulation on load carried and speed.                                                                                      |
|                         |                    | Heavy vehicle maintenance / operation    | Oil Spillage                                                                    | Most of the machines operating on the site will be electricity operated.                                                                                                                           |

| Environmental Component                                                                                                    | Phase              | Project Activity                           | Potential Impacts                                                                                                | Mitigation Measures                                                                                                                                                                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------------------------|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                            |                    |                                            |                                                                                                                  | Oil trays will be kept below all potential oil spillage points and oil shall be collected in trays and given to authorized recyclers/sites.                                                                                                                                                          |
|                                                                                                                            | Operation Phase    | Operation                                  | Soil contamination due to surface run off/Oil & grease dripping from vehicles                                    | Oil & grease traps shall be installed on sewers and S.W.D. discharge points in to Municipal sewers and drains. The sludge collected from Oil separators should be disposed Authorized dumping sites.                                                                                                 |
|                                                                                                                            |                    | Solid Waste generation                     | Improper disposal of plastic Waste/kitchen waste and sludge of treatment plants can cause environmental hazards. | All the solid waste generated should be separated at the source.<br>Dry garbage will be handed over to the authorized contractors<br>Wet garbage shall be treated by Vessel composting and shall be used as manure.<br>The sludge generated by the Sewage Treatment Plant can be used for Gardening. |
|                                                                                                                            |                    | Transpiration of hazardous material        | Hazardous chemicals from accidental spill                                                                        | Regulation on load carried And speed.<br>Barriers to be erected near sensitive locations.                                                                                                                                                                                                            |
| Even after taking precautions if soil is found to be contaminated, it shall be removed and disposed off to authorized site |                    |                                            |                                                                                                                  |                                                                                                                                                                                                                                                                                                      |
| Ecology                                                                                                                    | Construction Phase | Construction of structures and earth work. | Migration of fauna due to construction                                                                           | All the machines operating on the site will be electricity operated. Machines                                                                                                                                                                                                                        |



| Environmental Component | Phase           | Project Activity                      | Potential Impacts                              | Mitigation Measures                                                     |
|-------------------------|-----------------|---------------------------------------|------------------------------------------------|-------------------------------------------------------------------------|
|                         |                 |                                       |                                                | and vehicles should be maintained well to keep their noise at a minimum |
|                         |                 | Transportation of hazardous materials | Loss of vegetation from chemical spills        | Regulation on load carried and speed.                                   |
|                         | Operation Phase | Operation                             | Increase exposure to anthropogenic activities. | Enactment and enforcement of laws regulating human intrusions.          |

**PART –III**

**ALLOCATION MADE FOR ENVIRON-MENTAL MANAGEMENT PLANS**

| Sr. No.        | Pollution Control & Other Environment Infrastructure | Capital Cost In Rs. Lakh | Annual O& M Cost In Rs. Lakh/annum |
|----------------|------------------------------------------------------|--------------------------|------------------------------------|
| 1              | Sewage Treatment Plant                               | 150                      | 41.3                               |
| 2              | Tree Plantation                                      | 1050                     | 5.40                               |
| 4              | Rain Water Harvesting                                | 30                       | 0.40                               |
| 5              | Environment Monitoring                               | 00                       | 3.00                               |
| 6              | Energy Saving                                        | 80                       | 2.50                               |
| 7              | Organic Waste Convertor                              | 20                       | 13.40                              |
| 8              | Solar Water Heating System                           | 70                       | 3.00                               |
| 9              | Swimming Pool                                        | 35                       | 1.60                               |
| 10             | Best Ventilation                                     | 80                       | 2.00                               |
| <b>TOTAL =</b> |                                                      | <b>1515</b>              | <b>72.6</b>                        |

# **ENCLOSURE II**

**ENVIRONMENTAL CLEARANCE COPY**



Environment department,  
Room No. 217, 2nd floor,  
Mantralaya, Annexe,  
Mumbai- 400 032.  
Date: February 1, 2019

To,  
**Mr. Rajendra Gadekar**  
at S.No.98/1(P),98/2,99/1,99/2(P),99/3(P),99/4(P),101/2(P) & 101/3 at Village Name - Mann, Tal. Mulshi, Dist. Pune,  
Maharashtra, Pin code 411 057

**Subject:** Environment Clearance for Proposed Group Housing project at  
S.No.98/1(P),98/2,99/1,99/2(P),99/3(P),99/4(P),101/2(P) & 101/3 at Village Name - Mann, Tal. Mulshi, Dist.  
Pune, Maharashtra, Pin code 411 057

Sir,

This has reference to your communication on the above mentioned subject. The proposal was considered as per the EIA Notification - 2006, by the State Level Expert Appraisal Committee-III, Maharashtra in its 69th meeting and recommend the project for prior environmental clearance to SEIAA. Information submitted by you has been considered by State Level Environment Impact Assessment Authority in its 152nd meetings.

2. It is noted that the proposal is considered by SEAC-III under screening category Category B as per EIA Notification 2006.

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

|                                                                                                        |                                                                                                                                                |
|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.Name of Project                                                                                      | Proposed Group Housing project                                                                                                                 |
| 2.Type of institution                                                                                  | Private                                                                                                                                        |
| 3.Name of Project Proponent                                                                            | Mr. Rajendra Gadekar                                                                                                                           |
| 4.Name of Consultant                                                                                   | Building Environment India PVT. LTD.                                                                                                           |
| 5.Type of project                                                                                      | Housing Project                                                                                                                                |
| 6.New project/expansion in existing project/modernization/diversification in existing project          | New Project                                                                                                                                    |
| 7.If expansion/diversification, whether environmental clearance has been obtained for existing project | Not applicable                                                                                                                                 |
| 8.Location of the project                                                                              | S.No.98/1(P),98/2,99/1,99/2(P),99/3(P),99/4(P),101/2(P) & 101/3 at Village Name - Mann, Tal. Mulshi, Dist. Pune, Maharashtra, Pin code 411 057 |
| 9.Taluka                                                                                               | Mulshi                                                                                                                                         |
| 10.Village                                                                                             | Mann                                                                                                                                           |
| Correspondence Name:                                                                                   | Mr. Rajendra Gadekar/ Mr. Sudipto Saha                                                                                                         |
| Room Number:                                                                                           | M/S. Joyville Shapoorji Housing Pvt. Ltd.                                                                                                      |
| Floor:                                                                                                 | SP Center,                                                                                                                                     |
| Building Name:                                                                                         | 41/44,                                                                                                                                         |
| Road/Street Name:                                                                                      | Minoo Desai Marg,                                                                                                                              |
| Locality:                                                                                              | Colaba,                                                                                                                                        |
| City:                                                                                                  | Mumbai 400 005                                                                                                                                 |
| 11.Area of the project                                                                                 | PMRDA                                                                                                                                          |
| 12.IOD/IOA/Concession/Plan Approval Number                                                             | IN PROCESS<br>IOD/IOA/Concession/Plan Approval Number: IN PROCESS<br>Approved Built-up Area: 116166.77                                         |
| 13.Note on the initiated work (If applicable)                                                          | NA                                                                                                                                             |
| 14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)                                         | PROVISIONAL FIRE NOC                                                                                                                           |
| 15.Total Plot Area (sq. m.)                                                                            | 33017.30 m2                                                                                                                                    |

**SEIAA Meeting No: 152 Meeting Date: January 23, 2019 ( SEIAA-STATEMENT-0000000913 )**  
**SEIAA-MINUTES-0000000931**  
**SEIAA-EC-0000000658**

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**Shri. Anil Diggikar (Member Secretary SEIAA)**

|                                                                              |                                                                  |
|------------------------------------------------------------------------------|------------------------------------------------------------------|
| 16.Deductions                                                                | 0                                                                |
| 17.Net Plot area                                                             | 33017.30 m2                                                      |
| 18 (a).Proposed Built-up Area (FSI & Non-FSI)                                | FSI area (sq. m.): 65898.72                                      |
|                                                                              | Non FSI area (sq. m.): 50268.05                                  |
|                                                                              | Total BUA area (sq. m.): 116166.77                               |
| 18 (b).Approved Built up area as per DCR                                     | Approved FSI area (sq. m.): 65367.55                             |
|                                                                              | Approved Non FSI area (sq. m.): 50278.28                         |
|                                                                              | Date of Approval: 14-05-2018                                     |
| 19.Total ground coverage (m2)                                                | Building - 5734.68 m2, Commercial - 299.86 m2, Club 1- 587.63 m2 |
| 20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky) | 19% of Net Plot Area                                             |
| 21.Estimated cost of the project                                             | 3219000000                                                       |



# Government of Maharashtra

## 22. Production Details

| Serial Number | Product        | Existing (MT/M) | Proposed (MT/M) | Total (MT/M)   |
|---------------|----------------|-----------------|-----------------|----------------|
| 1             | Not applicable | Not applicable  | Not applicable  | Not applicable |

## 23. Total Water Requirement

|                                   |                                                                    |                  |
|-----------------------------------|--------------------------------------------------------------------|------------------|
| Dry season:                       | Source of water                                                    | IRRIGATION DEPT. |
|                                   | Fresh water (CMD):                                                 | 564              |
|                                   | Recycled water - Flushing (CMD):                                   | 238              |
|                                   | Recycled water - Gardening (CMD):                                  | 99               |
|                                   | Swimming pool make up (Cum):                                       | 10 KLD           |
|                                   | Total Water Requirement (CMD) :                                    | 803              |
|                                   | Fire fighting - Underground water tank(CMD):                       | 400 KLD          |
|                                   | Fire fighting - Overhead water tank(CMD):                          | 10 KLD           |
|                                   | Excess treated water                                               | 254              |
| Wet season:                       | Source of water                                                    | IRRIGATION DEPT. |
|                                   | Fresh water (CMD):                                                 | 564              |
|                                   | Recycled water - Flushing (CMD):                                   | 238              |
|                                   | Recycled water - Gardening (CMD):                                  | 0                |
|                                   | Swimming pool make up (Cum):                                       | 10 KLD           |
|                                   | Total Water Requirement (CMD) :                                    | 803              |
|                                   | Fire fighting - Underground water tank(CMD):                       | 400 KLD          |
|                                   | Fire fighting - Overhead water tank(CMD):                          | 10 KLD           |
|                                   | Excess treated water                                               | 353              |
| Details of Swimming pool (If any) | Size 20 m x 8 m x 1.2 m<br>Water requirement for make up is 10 KLD |                  |

Government of Maharashtra

| 24.Details of Total water consumed |                                          |                |                                                                                                                                                                        |                |                |                |                |                |                |
|------------------------------------|------------------------------------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Particulars                        | Consumption (CMD)                        |                |                                                                                                                                                                        | Loss (CMD)     |                |                | Effluent (CMD) |                |                |
| Water Requirement                  | Existing                                 | Proposed       | Total                                                                                                                                                                  | Existing       | Proposed       | Total          | Existing       | Proposed       | Total          |
| Domestic                           | Not applicable                           | Not applicable | Not applicable                                                                                                                                                         | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 25.Rain Water Harvesting (RWH)     | Level of the Ground water table:         |                | 3.50 M TO 8.5 M                                                                                                                                                        |                |                |                |                |                |                |
|                                    | Size and no of RWH tank(s) and Quantity: |                | 1 NO OF 60 M3 capacity                                                                                                                                                 |                |                |                |                |                |                |
|                                    | Location of the RWH tank(s):             |                | At Basement level                                                                                                                                                      |                |                |                |                |                |                |
|                                    | Quantity of recharge pits:               |                | NA                                                                                                                                                                     |                |                |                |                |                |                |
|                                    | Size of recharge pits :                  |                | NA                                                                                                                                                                     |                |                |                |                |                |                |
|                                    | Budgetary allocation (Capital cost) :    |                | 30 Lakh                                                                                                                                                                |                |                |                |                |                |                |
|                                    | Budgetary allocation (O & M cost) :      |                | 0.40 Lakh/Year                                                                                                                                                         |                |                |                |                |                |                |
|                                    | Details of UGT tanks if any :            |                | 1. Raw water tank 300 cu.mt<br>2. Treated water tank 300 cu.mt<br>3. PMC Tank 50 cu.mt<br>4. RWH tank 60 cu.mt<br>5. Flushing tank 300 cu.mt<br>6. Fire tank 600 cu.mt |                |                |                |                |                |                |
| 26.Storm water drainage            | Natural water drainage pattern:          |                | West to East                                                                                                                                                           |                |                |                |                |                |                |
|                                    | Quantity of storm water:                 |                | 1485 m3/hr                                                                                                                                                             |                |                |                |                |                |                |
|                                    | Size of SWD:                             |                | 600 x 600 mm                                                                                                                                                           |                |                |                |                |                |                |
| 27.Sewage and Waste water          | Sewage generation in KLD:                |                | 657 KLD                                                                                                                                                                |                |                |                |                |                |                |
|                                    | STP technology:                          |                | MBBR                                                                                                                                                                   |                |                |                |                |                |                |
|                                    | Capacity of STP (CMD):                   |                | 700 KLD x 1 No.                                                                                                                                                        |                |                |                |                |                |                |
|                                    | Location & area of the STP:              |                | At 1st Basement Level                                                                                                                                                  |                |                |                |                |                |                |
|                                    | Budgetary allocation (Capital cost):     |                | 150 Lakhs                                                                                                                                                              |                |                |                |                |                |                |
|                                    | Budgetary allocation (O & M cost):       |                | 41.3 LAKH                                                                                                                                                              |                |                |                |                |                |                |

## 28.Solid waste Management

|                                                                  |                                                 |                                                                                                                                                                                                                                                              |
|------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Waste generation in the Pre Construction and Construction phase: | Waste generation:                               | 30 Kg/day                                                                                                                                                                                                                                                    |
|                                                                  | Disposal of the construction waste debris:      | Construction waste will be generated from the building will be channelized through debris chutes. It includes waste concrete, excavated soil, broken bricks, waste plaster, metallic scrap etc. Construction debris will be used for base course preparation |
| Waste generation in the operation Phase:                         | Dry waste:                                      | 1809 Kg/day                                                                                                                                                                                                                                                  |
|                                                                  | Wet waste:                                      | 1579 Kg/day                                                                                                                                                                                                                                                  |
|                                                                  | Hazardous waste:                                | Negligible                                                                                                                                                                                                                                                   |
|                                                                  | Biomedical waste (If applicable):               | NA                                                                                                                                                                                                                                                           |
|                                                                  | STP Sludge (Dry sludge):                        | 40 Kg/day                                                                                                                                                                                                                                                    |
|                                                                  | Others if any:                                  | NA                                                                                                                                                                                                                                                           |
| Mode of Disposal of waste:                                       | Dry waste:                                      | Collected & Disposed by local body (swach)                                                                                                                                                                                                                   |
|                                                                  | Wet waste:                                      | Treated in OWC                                                                                                                                                                                                                                               |
|                                                                  | Hazardous waste:                                | To Authorized Vendor                                                                                                                                                                                                                                         |
|                                                                  | Biomedical waste (If applicable):               | NA                                                                                                                                                                                                                                                           |
|                                                                  | STP Sludge (Dry sludge):                        | Used as Manure                                                                                                                                                                                                                                               |
|                                                                  | Others if any:                                  | NA                                                                                                                                                                                                                                                           |
| Area requirement:                                                | Location(s):                                    | At Ground Level                                                                                                                                                                                                                                              |
|                                                                  | Area for the storage of waste & other material: | 10 m x 6 m                                                                                                                                                                                                                                                   |
|                                                                  | Area for machinery:                             | 10 m x 3 m                                                                                                                                                                                                                                                   |
| Budgetary allocation (Capital cost and O&M cost):                | Capital cost:                                   | 20 Lakh                                                                                                                                                                                                                                                      |
|                                                                  | O & M cost:                                     | 13.40 Lakh                                                                                                                                                                                                                                                   |

# Government of Maharashtra



| 29.Effluent Charecterestics           |            |                |                                |                                 |                                     |
|---------------------------------------|------------|----------------|--------------------------------|---------------------------------|-------------------------------------|
| Serial Number                         | Parameters | Unit           | Inlet Effluent Charecterestics | Outlet Effluent Charecterestics | Effluent discharge standards (MPCB) |
| 1                                     | NA         | NA             | NA                             | NA                              | NA                                  |
| Amount of effluent generation (CMD):  |            | Not applicable |                                |                                 |                                     |
| Capacity of the ETP:                  |            | Not applicable |                                |                                 |                                     |
| Amount of treated effluent recycled : |            | Not applicable |                                |                                 |                                     |
| Amount of water send to the CETP:     |            | Not applicable |                                |                                 |                                     |
| Membership of CETP (if require):      |            | Not applicable |                                |                                 |                                     |
| Note on ETP technology to be used     |            | Not applicable |                                |                                 |                                     |
| Disposal of the ETP sludge            |            | Not applicable |                                |                                 |                                     |



# Government of Maharashtra

| 30.Hazardous Waste Details |                |                |                |                |                |                |                    |
|----------------------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------------|
| Serial Number              | Description    | Cat            | UOM            | Existing       | Proposed       | Total          | Method of Disposal |
| 1                          | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable     |

| 31.Stacks emission Details |                 |                         |           |                              |                       |                        |
|----------------------------|-----------------|-------------------------|-----------|------------------------------|-----------------------|------------------------|
| Serial Number              | Section & units | Fuel Used with Quantity | Stack No. | Height from ground level (m) | Internal diameter (m) | Temp. of Exhaust Gases |
| 1                          | 1 nos DG set    | HSD                     | 1         | 6 mt                         | 0.2                   | 470 Deg                |

| 32.Details of Fuel to be used          |                         |                |          |            |
|----------------------------------------|-------------------------|----------------|----------|------------|
| Serial Number                          | Type of Fuel            | Existing       | Proposed | Total      |
| 1                                      | High speed diesel (HSD) | Not applicable | HSD      | 155 Lit/Hr |
| Source of Fuel                         |                         | Not applicable |          |            |
| Mode of Transportation of fuel to site |                         | Not applicable |          |            |

| 33.Energy          |                                                               |             |
|--------------------|---------------------------------------------------------------|-------------|
| Power requirement: | Source of power supply :                                      | MSEB        |
|                    | During Construction Phase: (Demand Load)                      | 400 Kw      |
|                    | DG set as Power back-up during construction phase             | 1 x 380 kVA |
|                    | During Operation phase (Connected load):                      | 3111.30 kW  |
|                    | During Operation phase (Demand load):                         | 2329.76 kW  |
|                    | Transformer:                                                  | 6 x 630 kVA |
|                    | DG set as Power back-up during operation phase:               | 1 x 750 kVA |
|                    | Fuel used:                                                    | HSD         |
|                    | Details of high tension line passing through the plot if any: | NA          |

| 34.Energy saving by non-conventional method:                                                                                                                                                                                                                                                                                                                                                               |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 1) Use of Variable speed drives for Lifts<br>2) Use of CFL/T-5Fittings & Electronic Ballast in Common area<br>3) Use of LED Fittings in Lighting of lift lobby or passages<br>4) Use of solar based lighting systems in common areas.<br>5) Using VFD for Fan and pump for STP<br>6) Using high efficient equipment & BEE Certified Motors for Basement ventilation<br>7) Renewable Solar power generation |  |

| 36.Detail calculations & % of saving: |                                                 |          |
|---------------------------------------|-------------------------------------------------|----------|
| Serial Number                         | Energy Conservation Measures                    | Saving % |
| 1                                     | Energy Saving usingLED Lightning                | 80 kW    |
| 2                                     | Energy Saving usingSolar Water Heater           | 177 kW   |
| 3                                     | Energy Generation proposed through Solar Panels | 46.20 kW |
| 4                                     | Total Energy saving                             | 19 %     |

| 37.Details of pollution control Systems                                                                                                                                                                                                              |                                   |                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|--------------------------|
| Source                                                                                                                                                                                                                                               | Existing pollution control system | Proposed to be installed |
| <div> <div> SEIAA Meeting No: 152 Meeting Date: January 23, 2019 ( SEIAA- STATEMENT-0000000913 )<br/> SEIAA-MINUTES-0000000931 SEIAA-EC-0000000658 </div> <div> Page 7 of 12 </div> <div> Shri. Anil Diggikar (Member Secretary SEIAA) </div> </div> |                                   |                          |

|                                                                            |                                          |                         |                                    |                                                        |                           |                  |                         |
|----------------------------------------------------------------------------|------------------------------------------|-------------------------|------------------------------------|--------------------------------------------------------|---------------------------|------------------|-------------------------|
| DG                                                                         | Not applicable                           |                         | 1 x 750 KVA with Aucostic encloser |                                                        |                           |                  |                         |
| Budgetary allocation<br>(Capital cost and O&M cost):                       | Capital cost:                            | 80 Lakh                 |                                    |                                                        |                           |                  |                         |
|                                                                            | O & M cost:                              | 2.50 Lakh               |                                    |                                                        |                           |                  |                         |
| 38.Environmental Management plan Budgetary Allocation                      |                                          |                         |                                    |                                                        |                           |                  |                         |
| a) Construction phase (with Break-up):                                     |                                          |                         |                                    |                                                        |                           |                  |                         |
| Serial Number                                                              | Attributes                               | Parameter               | Total Cost per annum (Rs. In Lacs) |                                                        |                           |                  |                         |
| 1                                                                          | Water for Dust Suppression               | 0                       | 3.00                               |                                                        |                           |                  |                         |
| 2                                                                          | Site Sanitation & Safety                 | 0                       | 0.54                               |                                                        |                           |                  |                         |
| 3                                                                          | Environmental Monitoring                 | 0                       | 4.50                               |                                                        |                           |                  |                         |
| 4                                                                          | Disinfection                             | 0                       | 0.54                               |                                                        |                           |                  |                         |
| 5                                                                          | Health Check up                          | 0                       | 0.40                               |                                                        |                           |                  |                         |
| 6                                                                          | Total (A) for entire Construction Period | 0                       | 8.98                               |                                                        |                           |                  |                         |
| b) Operation Phase (with Break-up):                                        |                                          |                         |                                    |                                                        |                           |                  |                         |
| Serial Number                                                              | Component                                | Description             | Capital cost Rs. In Lacs           | Operational and Maintenance cost (Rs. in Lacs/yr)      |                           |                  |                         |
| 1                                                                          | Rain Water Harvesting                    | To reuse Rain water     | 30.00                              | 0.40                                                   |                           |                  |                         |
| 2                                                                          | Sewage Treatment Plant                   | To treat Sewage         | 150                                | 41.30                                                  |                           |                  |                         |
| 3                                                                          | Organic Waste Composting                 | To manage wet waste     | 20                                 | 13.40                                                  |                           |                  |                         |
| 4                                                                          | Tree Plantation                          | Tree Plantation         | 1050                               | 5.40                                                   |                           |                  |                         |
| 5                                                                          | Energy saving                            | Energy saving measures  | 80                                 | 2.50                                                   |                           |                  |                         |
| 6                                                                          | Solar Water heating system               | renewable energy system | 70.00                              | 3.00                                                   |                           |                  |                         |
| 7                                                                          | Swimming pool                            | Swimming pool           | 35.00                              | 1.60                                                   |                           |                  |                         |
| 8                                                                          | Environment Monitoring                   | Environment Monitoring  | 0.00                               | 3.00                                                   |                           |                  |                         |
| 9                                                                          | Basement Ventilation                     | Basement Ventilation    | 80.00                              | 2.00                                                   |                           |                  |                         |
| 10                                                                         | Total (B)                                | Total (B)               | 1515.00                            | 72.60                                                  |                           |                  |                         |
| 11                                                                         | Total ( A+B)                             | Total ( A+B)            | 1515.00                            | 81.58                                                  |                           |                  |                         |
| 39.Storage of chemicals (inframmable/explosive/hazardous/toxic substances) |                                          |                         |                                    |                                                        |                           |                  |                         |
| Description                                                                | Status                                   | Location                | Storage Capacity in MT             | Maximum Quantity of Storage at any point of time in MT | Consumption / Month in MT | Source of Supply | Means of transportation |
| Not applicable                                                             | Not applicable                           | Not applicable          | Not applicable                     | Not applicable                                         | Not applicable            | Not applicable   | Not applicable          |
| 40.Any Other Information                                                   |                                          |                         |                                    |                                                        |                           |                  |                         |
| No Information Available                                                   |                                          |                         |                                    |                                                        |                           |                  |                         |

|  |                                                                                                                |                                                                                                                                                                                                                                                                                                          |
|--|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>CRZ/ RRZ clearance obtain, if any:</b>                                                                      | NA                                                                                                                                                                                                                                                                                                       |
|  | <b>Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries</b> | NA                                                                                                                                                                                                                                                                                                       |
|  | <b>Category as per schedule of EIA Notification sheet</b>                                                      | Category B                                                                                                                                                                                                                                                                                               |
|  | <b>Court cases pending if any</b>                                                                              | NA                                                                                                                                                                                                                                                                                                       |
|  | <b>Other Relevant Informations</b>                                                                             | Total Land Area is 133493 Sq.m. which is subdivided in Two plots namely Plot 1 and Plot 2.<br>After deduction of required parameters, Land Area available for development on Plot 1 = 33017.30 Sq.m. and on Plot 2 = 43852Sq.m.<br>At presently, Proposed Residential development is proposed on Plot 1. |
|  | <b>Have you previously submitted Application online on MOEF Website.</b>                                       | No                                                                                                                                                                                                                                                                                                       |
|  | <b>Date of online submission</b>                                                                               | -                                                                                                                                                                                                                                                                                                        |

- The proposal has been considered by SEIAA in its 152nd meeting & decided to accord environmental clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implementation of the following terms and conditions:

**Specific Conditions:**

|     |                                                                                                                                                          |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| I   | PP to submit revise plan for SWD.                                                                                                                        |
| II  | PP to submit revise Debris Management plan.                                                                                                              |
| III | PP to submit Swatch NOC.                                                                                                                                 |
| IV  | PP to submit plan for sewer line connectivity up to final disposal point.                                                                                |
| V   | PP to submit undertaking for CER activities.                                                                                                             |
| VI  | PP to submit CER plan to Municipal Commissioner, Pune Municipal Corporation and submit the acknowledgement copy to submitted to Member Secretary, SEIAA. |
| VII | 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           |

**General Conditions:**

|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| I    | E-waste shall bedisposed through Authorized vendor as per E-waste (Management and Handling) Rules, 2016.                                                                                                                                                                                                                                                                                                                                        |
| II   | 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.                                                                                                                                                                          |
| III  | This environmental clearance is issued subject to obtaining NOC from Forestry & Wild life angle including clearance from the standing committee of the National Board for Wild life as if applicable & this environment clearance does not necessarily implies that Forestry & Wild life clearance granted to the project which will be considered separately on merit.                                                                         |
| IV   | PP has to abide by the conditions stipulated by SEAC& SEIAA.                                                                                                                                                                                                                                                                                                                                                                                    |
| V    | The height, Construction built up area of proposed construction shall be in accordance with the existing FSI/FAR norms of the urban local body & it should ensure the same along with survey number before approving layout plan & before according commencement certificate to proposed work. Plan approving authority should also ensure the zoning permissibility for the proposed project as per the approved development plan of the area. |
| VI   | 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.                                                                                                                                                                                                      |
| VII  | All required sanitary and hygienic measures should be in place before starting construction activities and to be maintained throughout the construction phase.                                                                                                                                                                                                                                                                                  |
| VIII | 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.                                                                                                                                                                               |
| IX   | The solid waste generated should be properly collected and segregated. dry/inert solid waste should be disposed off to the approved sites for land filling after recovering recyclable material.                                                                                                                                                                                                                                                |
| X    | Disposal of muck during construction phase should not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.                                                                                                                                                               |

|                                                                                                                                                    |                     |                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------------------------------------|
| <b>SEIAA Meeting No: 152 Meeting Date: January 23, 2019 ( SEIAA- STATEMENT-0000000913 )</b><br><b>SEIAA-MINUTES-0000000931 SEIAA-EC-0000000658</b> | <b>Page 9 of 12</b> | <b>Shri. Anil Diggikar (Member Secretary SEIAA)</b> |
|----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------------------------------------|

|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| XI     | Arrangement shall be made that waste water and storm water do not get mixed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| XII    | All the topsoil excavated during construction activities should be stored for use in horticulture / landscape development within the project site.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| XIII   | Additional soil for leveling of the proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improved.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| XIV    | Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| XV     | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| XVI    | Construction spoils, including bituminous material and other hazardous materials must not be allowed to contaminate watercourses and the dumpsites for such material must be secured so that they should not leach into the ground water.                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| XVII   | Any hazardous waste generated during construction phase should be disposed off as per applicable rules and norms with necessary approvals of the Maharashtra Pollution Control Board.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| XVIII  | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| XIX    | The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from concern authority shall be taken.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| XX     | Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards and should be operated only during non-peak hours.                                                                                                                                                                                                                                                                                                                                                                                                                 |
| XXI    | Ambient noise levels should conform to residential standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase. Adequate measures should be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/MPCB.                                                                                                                                                                                                                                                                                                 |
| XXII   | Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September 1999 and amended as on 27th August, 2003. (The above condition is applicable only if the project site is located within the 100Km of Thermal Power Stations).                                                                                                                                                                                                                                                                                                                                                                                     |
| XXIII  | Ready mixed concrete must be used in building construction.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| XXIV   | Storm water control and its re-use as per CGWB and BIS standards for various applications.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| XXV    | Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| XXVI   | The ground water level and its quality should be monitored regularly in consultation with Ground Water Authority.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| XXVII  | The installation of the Sewage Treatment Plant (STP) should be certified by an independent expert and a report in this regard should be submitted to the MPCB and Environment department before the project is commissioned for operation. Discharge of this unused treated effluent, if any should be discharge in the sewer line. Treated effluent emanating from STP shall be recycled/refused to the maximum extent possible. Discharge of this unused treated effluent, if any should be discharge in the sewer line. Treatment of 100% gray water by decentralized treatment should be done. Necessary measures should be made to mitigate the odour problem from STP. |
| XXVIII | Permission to draw ground water and construction of basement if any shall be obtained from the competent Authority prior to construction/operation of the project.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| XXIX   | Separation of gray and black water should be done by the use of dual plumbing line for separation of gray and black water.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| XXX    | Fixtures for showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| XXXI   | Use of glass may be reduced up to 40% to reduce the electricity consumption and load on air conditioning. If necessary, use high quality double glass with special reflective coating in windows.                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| XXXII  | Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill requirement.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| XXXIII | Energy conservation measures like installation of CFLs /TFLs for the lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. Use CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination. Use of solar panels may be done to the extent possible like installing solar street lights, common solar water heaters system. Project proponent should install, after checking feasibility, solar plus hybrid non-conventional energy source as source of energy.     |
| XXXIV  | Diesel power generating sets proposed as source of backup power for elevators and common area illumination during operation phase should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use low sulphur diesel. The location of the DG sets may be decided with in consultation with Maharashtra Pollution Control Board.                                                                                                                                                                                |
| XXXV   | Noise should be controlled to ensure that it does not exceed the prescribed standards. During nighttime the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations.                                                                                                                                                                                                                                                                                                                                                                                                                    |
| XXXVI  | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| XXXVII | Opaque wall should meet prescriptive requirement as per Energy Conservation Building Code, which is proposed to be mandatory for all air-conditioned spaces while it is aspiration for non-air-conditioned spaces by use of appropriate thermal insulation material to fulfill requirement.                                                                                                                                                                                                                                                                                                                                                                                  |



|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| XXXVIII | The building should have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| XXXIX   | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| XL      | 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.                                                                                                                                                                                                                                                                                                                                                                        |
| XLI     | Six monthly monitoring reports should be submitted to the Regional office MoEF, Bhopal with copy to this department and MPCB.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| XLII    | Project proponent shall ensure completion of STP, MSW disposal facility, green belt development prior to occupation of the buildings. As agreed during the SEIAA meeting, PP to explore possibility of utilizing excess treated water in the adjacent area for gardening before discharging it into sewer line No physical occupation or allotment will be given unless all above said environmental infrastructure is installed and made functional including water requirement in Para 2. Prior certification from appropriate authority shall be obtained.                                                 |
| XLIII   | Wet garbage should be treated by Organic Waste Converter and treated waste (manure) should be utilized in the existing premises for gardening. And, no wet garbage will be disposed outside the premises. Local authority should ensure this.                                                                                                                                                                                                                                                                                                                                                                 |
| XLIV    | Local body should ensure that no occupation certification is issued prior to operation of STP/MSW site etc. with due permission of MPCB.                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| XLV     | A complete set of all the documents submitted to Department should be forwarded to the Local authority and MPCB.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| XLVI    | In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Department.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| XLVII   | A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| XLVIII  | 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 earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should reported to the MPCB & this department.                                                                                                                                                                                                                                         |
| XLIX    | 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 <a href="http://ec.maharashtra.gov.in">http://ec.maharashtra.gov.in</a> .                                                                                       |
| L       | 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.                                                                                                                                                                                                                                                                                                                                                          |
| LI      | 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.                                                                                                                                                                                                                                                                                                |
| LII     | The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO <sub>2</sub> , NO <sub>x</sub> (ambient levels as well as stack emissions) or critical sector parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain. |
| LIII    | The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.                                                                                                                                                                                                                                                                                                           |
| LIV     | 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.                                                                                                                                               |
| LV      | SEIAA decided to grant EC for : FSI: 65898.72m <sup>2</sup> , Non FSI: 50268.05 m <sup>2</sup> & Total BUA: 116166.77 m <sup>2</sup> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

- The environmental clearance is being issued without prejudice to the action initiated under EP Act or any court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision under EP Act or of the Hon'ble court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him, if any or action initiated under EP Act.
- 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.
- The Environment department reserves the right to add any stringent condition or to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the department or for that matter, for any other administrative reason.
- Validity of Environment Clearance: The environmental clearance accorded shall be valid as per EIA Notification, 2006, and amendments by MoEF&CC Notification dated 29th April, 2015.
- In case of any deviation or alteration in the project proposed from those submitted to this department for clearance, a fresh reference should be made to the department to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.
- The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the public Liability Insurance Act, 1991 and its amendments.
- Any appeal against this Environment clearance shall lie with the National Green Tribunal (Western Zone Bench, Pune), New Administrative Building, 1st Floor, D- Wing, Opposite Council Hall, Pune, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

Shri. Anil Diggikar (Member :



**Copy to:**

1. SHRI JOHNY JOSEPH, CHAIRMAN-SEIAA
2. SHRI UMAKANT DANGAT, CHAIRMAN-SEAC-I
3. SHRI M.M.ADTANI, CHAIRMAN-SEAC-II
4. SHRI ANIL .D. KALE. CHAIRMAN SEAC-III
5. SECRETARY MOEF & CC
6. IA- DIVISION MOEF & CC
7. MEMBER SECRETARY MAHARASHTRA POLLUTION CONTROL BOARD MUMBAI
8. REGIONAL OFFICE MOEF & CC NAGPUR
9. MUNICIPAL COMMISSIONER PUNE
10. MUNICIPAL COMMISSIONER SATARA
11. REGIONAL OFFICE MPCB PUNE
12. REGIONAL OFFICE MIDCPUNE
13. MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD
14. COLLECTOR OFFICE PUNE
15. COLLECTOR OFFICE SATARA
16. COLLECTOR OFFICE SOLAPUR

Government of  
Maharashtra

# **ENCLOSURE III**

**CONSENT TO ESTABLISH**



# MAHARASHTRA POLLUTION CONTROL BOARD

Phone : 4010437/4020781  
/4037124/4035273  
Fax : 24044532/4024058 /4023516  
Email : rohq@mpcb.gov.in  
Visit At : <http://mpcb.gov.in>



Kalpataru Point, 3rd & 4th floor, Sion- Matunga  
Scheme Road No. 8, Opp. Cine Planet Cinema, Near  
Sion Circle, Sion (E),  
Mumbai - 400022

## Infrastructure /LSI

Consent order No: Format L/BO/RO-HQ/cc-190/002430

Date-31/10/2018

To,

M/s. Joyville Shapoorji Housing Pvt. Ltd.

"Proposed residential & commercial scheme",

S. no. 98/1(P), 98/2, 99/1, 99/2(P), 99/3(P), 99/4(P), 101/2(P) & 101/3 at

Vill-Maan, Tal-Mulshi, Pune.

Subject: Consent to Establish for residential cum commercial building project under Red Category.

Ref :

1. Minutes of Consent Committee meeting held on 14.12.2018.

Your application MPCB-CONSENT-0000050826 Dated: 17/06/2018

For: Consent to Establish for residential cum commercial building project under Section 25 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Rule 5 of the Hazardous and Other Wastes (M & TM) Rules, 2016 and Municipal Solid Waste (Management & Handling) Rule, 2000 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 up to commissioning of the project or 5 years whichever is earlier.
2. The proposed capital investment of the project is Rs. 321.9 Crs. (As per undertaking submitted by project proponent)
3. The Consent to Establish is valid for construction of residential cum commercial building project by M/s. Joyville Shapoorji Housing Pvt. Ltd. named as "Proposed residential & commercial scheme", at S. no. 98/1(P), 98/2, 99/1, 99/2(P), 99/3(P), 99/4(P), 101/2(P) & 101/3, at Vill-Maan, Tal-Mulshi, Pune on total plot area of 133809 sq.m. and total construction built up area 116166 sq. mtrs including utilities and services as per commencement certificate issued by local body.

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

| Sr. No. | Description       | Permitted quantity of discharge (CMD) | Standards to be achieved | Disposal                                                                               |
|---------|-------------------|---------------------------------------|--------------------------|----------------------------------------------------------------------------------------|
| 1.      | Trade effluent    | NIL                                   | NA                       | NA                                                                                     |
| 2.      | Domestic effluent | 657                                   | As per Schedule -I       | 60% should be reused & recycled and remaining should be discharged in municipal sewer. |

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

| Sr. No. | Description of stack/ source | Capacity | Number Of Stack | Standards to be achieved |
|---------|------------------------------|----------|-----------------|--------------------------|
| 1       | DG Set                       | 750-KVA  | 1               | As Per Schedule -II      |

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

| Sr. no. | Type Of Waste     | Quantity & UoM | Treatment   | Disposal                                            |
|---------|-------------------|----------------|-------------|-----------------------------------------------------|
| 1       | Bio-degradable    | 1579 MT/Day    | OWC         | Use as Manure                                       |
| 2       | Non-biodegradable | 1809 MT/Day    | Segregation | Segregate and Hand over to Local Body for recycling |
| 3       | STP Sludge        | 50 Kg/day      |             | Use as Manure                                       |

7. Conditions under Hazardous & Other Waste (M & TM) Rules, 2016 for treatment and disposal of hazardous waste: Nil
8. The Board reserves the right to review, amend, suspend, revoke etc. this consent and the same should be binding on the industry.
9. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government authorities.
10. Project Proponent shall comply the Construction and Demolition Waste Management Rules, 2016 which is notified by Ministry of Environment, Forest and Climate Change dtd.28/03/2016.
11. Project Proponent shall submit an affidavit in Board's prescribed format within 15 days regarding the compliance of conditions of EC/CRZ clearance and C to E.
12. The applicant shall not take any effective steps for implementation of the project before obtaining Environmental Clearance as per EIA notification, 2006 and amendments thereto.

As per Para 2 of EIA notification dated 14/09/2006, the effective steps include starting of any construction work or preparation of land by the project management. However as clarified by the MoEF vide office memorandum no. J-1103/41/2006-IA.II (I) dated 19/8/2010, fencing of the site to protect it from getting encroached & construction of temporary shed(s) for the guard(s) & acquisition of land shall not be treated as an effective steps.

For and on behalf of the  
Maharashtra Pollution Control Board

(E. Ravendiran, IAS)  
Member Secretary

Received Consent fee of -

| Amount(Rs.) | DR No.  | Received Date | Drawn on  |
|-------------|---------|---------------|-----------|
| 643800      | 7610837 | 2018-06-25    | Axis Bank |

Copy to:

1. Regional Officer, MPCB, Pune and Sub-Regional Officer, MPCB, Pune-II -- They are directed to ensure the compliance of the consent conditions.
2. Chief Accounts Officer, MPCB, Mumbai.
3. CC/CAC desk- for record & website updation purposes.

### **Schedule-I**

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

- 1) A) As per your application, you have proposed to install MBBR based Sewage Treatment Plants (STPs) with the design capacity of 700 CMD.

B) The Applicant shall operate the effluent 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        | Standards prescribed by Board                 |
|--------|-------------------|-----------------------------------------------|
|        |                   | Limiting Concentration in mg/l, except for PH |
| 01     | BOD (3 days 27°C) | 10                                            |
| 02     | Suspended Solids  | 50                                            |
| 03     | COD               | 100                                           |

C) The treated effluent shall be 60% recycled for secondary purposes such as toilet flushing, air conditioning, firefighting, on land for gardening etc and remaining shall be discharged in to the municipal sewerage system.

D) Project proponent shall operate STP for five years from the date of obtaining occupation certificate.

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 should 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.

- 2) Project proponent shall install online monitoring system for monitoring of BOD, SS and flow parameters at the outlet of STP.
- 3) The industry should 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 water consumption is as under:

| Sr. no. | Purpose for water consumed | Water consumption quantity (CMD) |
|---------|----------------------------|----------------------------------|
| 1.      | Domestic purpose           | 803                              |

## Schedule-II

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

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

| Sr. No. | Stack Attached To | APC System         | Height in Mtrs. | Type Of Fuel | Quantity | UOM    | S% | SO <sub>2</sub> |
|---------|-------------------|--------------------|-----------------|--------------|----------|--------|----|-----------------|
| 1       | DG Set (750 KVA)  | Acoustic enclosure | 5.5*            | Diesel       | 80       | Lit/Hr | -  | -               |

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

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

|                    |               |                        |
|--------------------|---------------|------------------------|
| Particulate matter | Not to exceed | 150 mg/Nm <sup>3</sup> |
|--------------------|---------------|------------------------|

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



**Schedule-III**  
**Details of Bank Guarantees**

| Sr. No. | Consent (C to E/O/R) | Amt of BG Imposed | Submission Period | Purpose of BG                                                                                   | Compliance Period                 | Validity Date |
|---------|----------------------|-------------------|-------------------|-------------------------------------------------------------------------------------------------|-----------------------------------|---------------|
| 1       | Consent to Establish | Rs. 20 lakh       | 15 Days           | Towards not to take effective steps towards implementation of the project prior to obtaining EC | Upto Commissioning of the project | Five years    |

Maharashtra Pollution Control Board

#### Schedule-IV

##### General Conditions:

- 1) The applicant should 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 should pay to the Board for the services rendered in this behalf.
- 2) The firm should strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act, 1981 and environmental protection Act 1986 and Solid Waste Management Rules, 2016 and E-Waste (Management) Rules, 2016.
- 3) Drainage system should be provided for collection of sewage effluents. Terminal manholes should be provided at the end of the collection system with arrangement for measuring the flow. No sewage should be admitted in the pipes/sewers downstream of the terminal manholes. No sewage should 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) should 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) The industry should take adequate measures for control of noise levels from its own sources within the premises in respect of noise to less than 55 dB(A) during day time and 45 dB(A) during the night time. Day time is reckoned between 6 a.m. to 10 p.m. and night time is reckoned between 10 p.m. to 6 a.m.
  - d) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper siting and control measures.
  - 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 should 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 should comply with the notification of MoEF dated 17.05.2002 regarding noise limit for generator sets run with diesel.
- 6) Solid Waste - The applicant should provide onsite municipal solid waste processing system & should comply with Solid Waste Management Rules, 2016 & E-Waste (M) Rules, 2016.
- 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) The industry should submit official e-mail address and any change will be duly informed to the MPCB.
- 9) The firm should 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.
- 10) The applicant shall obtain Consent to Operate from Maharashtra Pollution Control Board before commissioning of the project.

**ENCLOSURE IV**  
**PMRDA CERTIFICATE**





PUNEMETROPOLIS

**पुणे महानगर प्रदेश विकास प्राधिकरण, पुणे**  
**Pune metropolitan Regional Development Authority, Pune**  
 स.नं. १५२ - १५३, महाराजा सयाजीराव गायकवाड उद्योग भवन, आँध, पुणे - ४११००७.  
 S.No. 152 - 153, Maharaja Sayajirao Gaikwad Udyog Bhawan, Aundh, Pune - 411007  
 Ph No: 020 - 259 33 344 / 356 / 333 / फोन नं. : ०२० - २५९ ३३ ३४४ / ३५६ / ३३३ Email : hqpmrda@gmail.com

## विकास परवानगी व प्रारंभ प्रमाणपत्र

(मंजूर विकास नियंत्रण व प्रोत्साहन नियमावलीतील नियम क्र. ६.६.१ नुसार)

जा.क्र. : बीएमयु/मौजे: माण/ स.नं ९८/१(पै) व इतर, प्र.क्र. ५३३  
९८-१९

दि. ०१/११/२०१८

प्रति,

मे. जॉयविले शापूरजी हाऊसिंग प्रा. लि. तर्फे

श्री. राजेंद्र भाऊसाहेब गाडेकर

पत्ता : एस.पी.इन्फोसिटी सेंटर, सं.न. २०९, पुणे - सासवड रोड ,

फुरसुंगी, पुणे - ४१२३०८.

मौजे-माण, ता: मुळशी स.नं-९८/१(पै), ९८/२ ९९/१, ९९/२(पै), ९९/३(पै), ९९/४(पै), १०१/२(पै), १०१/३ या एकूण १३३४८१.०३ चौ.मी क्षेत्रापैकी भूखंड क्र. १ (३३०१७.३०) चौ.मी क्षेत्रावर समुहगृह गृहबांधणी प्रकल्पामधील सुधारीत रेखांकन / इमारत बांधकाम प्रस्ताव मंजूरीस्तव प्राधिकरणाकडे प्राप्त झाला आहे. आपण प्रस्तावासोबत सादर केलेल्या कागदपत्रास अधिन राहून तसेच सोबतच्या परिशिष्ट 'अ' मध्ये नमूद अटी व शर्तीस अधिन राहून उक्त प्रस्तावास विकास परवानगी व प्रारंभ प्रमाणपत्र देण्यात येत आहे.

मा.महानगर आयुक्त तथा मुख्य कार्यकारी अधिकारी यांचे मान्यतेने

विनायक  
 महानगर आयुक्त,

तथा

मुख्य कार्यकारी अधिकारी

पुणे महानगर प्रदेश विकास प्राधिकरण,

पुणे यांचे करिता





पुणे महानगर प्रदेश विकास प्राधिकरण, पुणे यांचेकडील दि-०१/११/२०१८ रोजीचे पत्र क्र. ५३३/१५-१५ सोबतचे  
परिशिष्ट 'अ'

- १) मंजूर नकाशाप्रमाणेच जागेचा विकास व बांधकाम करणे बंधनकारक राहील.
- २) सदर विकास परवानगी व प्रारंभ प्रमाणपत्र दिल्यानंतर एक वर्षाच्या कालावधीपर्यंत बांधकाम सुरु करणे बंधनकारक राहील. बांधकाम सुरु केल्याबाबत प्राधिकरणाला त्याप्रमाणे कळविणे त यावे. तदनंतर त्यापुढे आवश्यकतेनुसार विहीत मुदतीमध्ये सदर परवानगी व प्रमाणपत्राचे नुतनीकरण करून न घेतल्यास सदरचे परवानगी व प्रमाणपत्र संपुष्टात येईल.
- ३) इमारतीचे बांधकाम सुरु करण्यापूर्वी महसूल विभागाकडून अकृषिक आदेश प्राप्त करून त्याची साक्षांकित प्रत प्राधिकरणाकडे सादर करणे विकासक/जमिनमालक यांचेवर बंधनकारक राहील.
- ४) प्रस्तावासोबत सर्व्हे नंबर स.नं.- ९८/१(पै), ९८/२ ९९/१, ९९/२(पै), ९९/३(पै), ९९/४(पै), १०१/२(पै), १०१/३ची मोजणी अनुक्रमे मो.र.नं. १५०९४/१६ व दि. ०४/०२/२०१६ सर्व ने केलेल्या वहीवाटीचे मोजणी नकाशातील हद्दीचे तसेच जागेच्या मालकी / वहीवाटीबाबत विकासकाने/ जमीनमालकाने याबाबत सादर केलेल्या प्रतिज्ञापत्राचे अधिन राहून परवानगी देण्यात येत आहे. सदर जमिनीचे वहीवाटीचे/ हद्दीचे अनुषंगाने अथवा इमारतीबाबत कोणतेही व्यक्तिगत वाद/ न्यायालयीन वाद उद्भवलेस त्याची सर्वस्वी जबाबदारी विकासक / जमिनमालक यांची राहील. ज्या जागेची मालकी / वहीवाट, विकासक / जमिनमालक यांची नाही अशा कोणत्याही जमिनीवर सदर परवानगीद्वारे विकास अनुज्ञेय राहणार नाही.
- ५) प्रस्तुतच्या जमिनीवर आर्थिक संस्थांचा बोजा असल्यास त्यास जमीनमालक/विकासक सर्वस्वी जबाबदार राहतील.
- ६) नागरी जमीन (कमाल धारणा व विनियम) अधिनियम, १९७६ हा निरसित झाला असल्याने या अधिनियमांतर्गत बाबींकरिता प्रस्तावासोबत आपण रु. ५००/- च्या स्टॅम्प पेपरवरील दिनांक- १९/०९/२०१८ रोजी नोटरी मे श्री.एस.एम.निरफाखरे यांचे समोर केलेले विहीत नमुन्यातील शपथपत्र व बंधपत्र क्र.-१३३३/१८ सादर केले आहे. सदर शपथपत्र व बंधपत्रास अधिन राहून सदर बांधकाम परवानगी देण्यात येत आहे. त्याबाबतची संपूर्ण जबाबदारी जमीनमालक/विकासक यांची राहील सदर शपथपत्र व बंधपत्रातील माहिती चुकीची अथवा दिशाभूल करणारी आढळून आल्यास झालेले बांधकाम अनधिकृत समजून कारवाईस पात्र राहील.
- ७) विषयांकित जमिनीवर कोणतेही विकास कार्य सुरु करण्यापूर्वी रेखांकन जागेवर सिमांकित करून भूमि अभिलेख खात्याकडून प्रमाणित करून घेणे बंधनकारक आहे. मंजूर रेखांकनानुसार जागेवरील सिमांकन झाल्यानंतर, भूखंडाचे क्षेत्रफळ, रस्त्यांची रुंदी, १५% सुविधा भूखंड व १०% खुल्या जागेचे क्षेत्र मंजूर रेखांकनात दर्शविल्यापेक्षा कमी भरता कामा नये. तसेच सदर मान्य नकाशा मधील नियंत्रक रेषा RED LINE व निदेशक रेषा BLUE LINE यामध्ये कोणताही बदल झाल्यास रेखांकन पुन्हा मंजूर करून घेणे बंधनकारक राहील. अशा प्रमाणित रेखांकनाची प्रत प्राधिकरणास सादर करून त्यास अंतिम मंजूरी घेतल्याशिवाय कोणताही विकास करता येणार नाही.
- तसेच मंजूर रेखांकनानुसार अंतर्गत रस्ते, सुविधा भाग इत्यादी क्षेत्रांचे प्रमाणे मंजूर प्रादेशिक योजनेचे रस्ते (११० मी. व १८ मी.) रस्ता रुंदीने बाधित क्षेत्र जागा मालकास/ विकासकाने वेळोवेळी बदलात संबंधित नियोजन प्राधिकरणाकडे हस्तांतरीत करणे तसेच अशा अनुषंगिक क्षेत्राची मोजणी जागा मालकाने/विकासकाने संबंधित भूमि अभिलेख विभागाकडे रितसर अर्ज करून घेणे बंधनकारक राहील. तदनंतर अशा क्षेत्राखालील जमिनीचे, वस्तूंचे संबंधित नियोजन प्राधिकरणाचे नावाने जागा मालकाने



- /विकासकाने स्वखर्चाने करून देऊन तसा ७/१२ उतारा व त्याप्रमाणे प्रत्यक्ष जागेचा ताबा दिल्यानंतरच अशा क्षेत्रापोटी मिळणाऱ्या वाढीव चटई क्षेत्रा मधील सदनिकांची विक्री तसेच बांधकाम करता येईल.
- ८) मंजूर नकाशात दर्शविलेप्रमाणे नियोजित बांधकामापासुन पुढील, मागील व बाजूची सामासिक अंतरे प्रत्यक्षात जागेवरकायम व खुली ठेवणे आवश्यक राहिल.
- ९) रेखांकनातील भूखंड व नियोजित इमारतीचा वापर फक्त मंजूर नकाशानुसार रहिवास याप्रमाणे अनुज्ञेय केलेल्या वापरासाठी करणे बंधनकारक राहिल. इमारतीच्या वापरात बदल करावयाचा असल्यास त्यास प्राधिकरणाची पूर्वमंजूरी घ्यावी लागेल.
- १०) इमारतीचे जोता तपासणीसाठी अर्ज करताना अकृषिक परवानगी आणि परवानाधारक, वास्तुविशारद/ अभियंता /स्ट्रक्चरल अभियंता/ सुपरवायझर यांचे प्रमाणपत्र सादर करणे बंधनकारक राहिल, त्याचप्रमाणे भोगवटा प्रमाणपत्रासाठी अर्ज करताना बांधकाम प्रस्तावांतर्गत जमिनीचे महसूल /भूमी अभिलेखात एकत्रिकरण /उपविभागणी केलेला अद्यावत ७/१२ उतारा /प्रॉपर्टी कार्ड व मोजणी नकाशा सादर करणे बंधनकारक राहिल.
- ११) इमारतीचे मंजूर नकाशानुसार जोतयापर्यंतचे बांधकाम पूर्ण झाल्यानंतर जोते तपासणी प्रमाणपत्र प्राप्त करून न घेता पुढील बांधकाम केल्यास सदरचे बांधकाम अनधिकृत समजण्यात येऊन असे बांधकाम दंडात्मक कार्यवाहीस पात्र राहिल.
- १२) अभिन्यासातील रस्ते, व खुली जागा यांची देखभाल व अभिन्यासामध्ये दर्शविलेले वर्गीकृत /प्रादेशिक योजना रस्ते/ रस्ता रुंदीकरणातील क्षेत्र सर्व जनतेच्या वापरासाठी तसेच शेजारच्या जमीनमालकास वापरण्यास खुले ठेवणे बंधनकारक राहिल.
- १३) रेखांकनातील रस्ते, गटारे, खुली जागा इत्यादी विकासकाने /जमीनमालकाने भूखंड/ सदनिका वितरित करण्यापूर्वी जागेवर स्वखर्चाने व समाधानकारकरित्या विकसित करणे आवश्यक आहे.
- १४) नियोजित बांधकामातील मजल्यांची संख्या व उंची,मंजूर रेखांकन/बांधकाम नकाशांवर दर्शविल्यापेक्षा जास्त असता कामा नये.
- १५) नियोजित बांधकामाचे क्षेत्र, भूखंडावर अन्य बांधकाम अस्तित्वात असल्यास त्यासह एकुण बांधकाम क्षेत्र, सुविधा क्षेत्र व प्रादेशिक योजन रस्ते/रस्तारुंदी क्षेत्र नकाशावर दर्शविलेनुसार प्रत्यक्ष जागेवर असणे आवश्यक आहे.
- १६) जागेतील/ जागेलगतच्या नाल्याच्या/ नदीच्या नैसर्गिक प्रवाहास अडथळा येईल, असे कोणतेही बांधकाम करता येणार नाही. त्याचप्रमाणे उक्त जमिनीवरील विकास करताना जागेवरील भूपृष्ठ रचनेमध्ये अनाधिकृत बदल करता येणार नाहीत. सदर अटीचा भंग करून विकास केल्याने दुर्घटना घडल्यास त्याची जबाबदारी विकासक/ जमिनमालक यांची राहिल.
- १७) स्टिल्ट भविष्यात बंदिस्त करण्यात येऊ नये. तसेच स्टिल्टचा वापर मान्य नकाशामध्ये दर्शविलेला नुसार फक्त पार्किंगसाठीच करण्यात यावा.
- १८) स्ट्रक्चरल इंजिनियर / डिझायनर यांनी तयार केलेल्या Structural Design नुसार प्रत्यक्ष जागेवर विकास करणेची जबाबदारी विकासक व सुपरवायझर यांची संयुक्तिक राहिल.
- १९) विकासक/ जमिनमालक यांनी दि.- १९/०९/२०१८ क्र. १३३१/१८नोदरीमे श्री. श्री.एस.एम.निरफाखरे अन्वये दिलेल्या शपथपत्रास अधिन राहुन ही परवानगी देण्यात येते असुन प्रमाणित विकास नियंत्रण आणि प्रोत्साहन नियमावलीमधील सर्व नियम आणि भारतीय मानक ब्युरोने विहित केलेल्या सुरक्षाप्रमाणे कार्य करणे विकासक/ जमिनमालक यांचेवर बंधनकारक राहिल.
- ( नियम क्र. ७.१ )





२१) शासन नगर विकास विभागाकडील दि.१९/११/२००८ चे निदेश क्र. टिपीव्ही-४३०८/४१०२/प्र.क्र.३५९/०८/नवि-११ नुसार विकासक/ जमिनमालक व वास्तुविशारद यांनी बांधकाम नकाशामध्ये प्रत्येक सदनिकेचे एकूण चटईक्षेत्र (Carpet area) नमूद केलेले आहे. सदर नमूद चटई क्षेत्रा (Carpet area) बाबत आकडेमाडे, गणितीय चुका इ. बाबत वास्तुविशारद / विकासक/ जमिनमालक संयुक्तिकरित्या जबाबदार राहतील.

२२) नियोजित इमारतीसाठी/ विकासासाठी आवश्यक असणाऱ्या पिण्याच्या पाण्याची सोय आपण अश्वसित केलेल्या सक्षम प्राधिकरणाने/ ग्रामपंचायतीने न केल्यास या प्रकल्पातील सदनिका हस्तांतरणापुर्वी पिण्याच्या पाण्याची आवश्यक ती पुरवठा विकासक / जमिन मालक यांनी स्वखर्चाने प्रत्यक्ष वापरापुर्वी करणे आवश्यक आहे. त्याचप्रमाणे सांडपाण्याची व मैला निर्मुलनाची सुयोग्य व्यवस्था प्रत्यक्ष वापरापुर्वी करणे बंधनकारक राहिल.

२३) ओला व सुक्या कच्च्याकरिता सदर जागेत स्वतंत्र कंटेनरची सोय करणे आवश्यक राहिल. विघटन होण्याऱ्या ओल्या कच्च्यासाठी गांडुळखत प्रकल्प विकासक/ जमिनमालक यांनी स्वखर्चाने करावयाचा आहे.

२४) सदर जमिनीचे क्षेत्रफळ ५०० चौ.मी. पेक्षा जास्त आहे. त्यामुळे प्रत्येक ८० चौ.मी. क्षेत्रासाठी एक झाड याप्रमाणे वृक्ष लागवड करणे व त्याची जोपासणा करणे विकासक / जमिनमालक यांचेवर बंधनकारक राहिल.

२५) शासन निदेशानुसार बांधकाम करताना प्लायअंशचा वापर करणे बंधनकारक राहिल.

२६) सौर उर्जेवर पाणी तापवण्यासाठीची यंत्रणा विकासक/ जमिनमालक यांनी इमारतीचे वापरापुर्वी स्वखर्चाने करावयाची आहे.

२७) वेस्ट वॉटर ट्रीटमेंट प्लॅंट उभारणे विकासक /जमिनमालक यांचेवर बंधनकारक असून पाण्याचा फेरवापर बगीचा, झाडांची जोपासणा यासाठी करणे आवश्यक आहे.

२८) प्रारंभ प्रमाणपत्र दिलेल्या कोणत्याही इमारतीचे बांधकाम पूर्ण झाल्यानंतर मंजूर विकास नियंत्रण व प्रोत्साहन नियमावलीतील नियम क्र. ७.५ नुसार पूर्णत्वाचे विकासक/ जमिनमालक यांनी सादर करून नियम क्र. ७.६ नुसार भोगवटा प्रमाणपत्र प्राप्त करून घेतल्याखेरीज कोणत्याही इमारतीचा भागशः / पूर्णतः वापर सुरु केल्यास विकासक/ जमिनमालक कारवाईस पात्र राहिल.

२९) प्रमाणित विकास नियंत्रण व प्रोत्साहन नियमावलीमधील तरतुद क्र. ६.२.६.१ नुसार विशेष इमारतीबाबत :-

a) प्रमाणित विकास नियंत्रण व प्रोत्साहन नियमावलीमधील तरतुद क्र.१२.६ (b) नुसार प्रस्तावित इमारती सभोवताली ६.०० मी रुंदीचे पाथवे किमान ४५ टन वजनाचे फायर इंजिनचा भार पेलु शकेल या प्रमाणे डिझाईन करून विकसीत करणे विकासक/ जमिनमालक यांचेवर बंधनकारक आहे.

b) विकासक/ जमिनमालक यांनी प्रस्ताविल्यानुसार सर्व उंच इमारती स्टिल्ट वर असणे आवश्यक राहिल त्याचबरोबर वाहनतळ सुविधा प्रमाणित विकास नियंत्रण आणि प्रोत्साहन नियमावलीमधील तरतुद क्र. १६.१ नुसार प्रस्तावित करणे आवश्यक राहिल.

c) नगर विकास विभागाच्या दि. २८.८.२००९ रोजीच्या अधिसूचना प्रमाणे नियम क्र.४ मधील टिप -ii प्रमाणे पुणे महानगरपालिकेच्या मुख्य अग्निशमन अधिकारी यांनी १५ मी पेक्षा उंच इमारतीच्या नियोजनात बदल करणे आवश्यक झाल्यास पुन्हा संबंधित मुख्य अग्निशमन अधिकारी/संचालक यांची मंजूरी घ्यावी लागेल. तसेच प्रत्येक इमारतीमधील एक स्टेअरकेस व एक लिफ्ट N BC मधील तरतुदी प्रमाणे आग प्रतिरोधक असणे आवश्यक आहे. तसेच उंच इमारतीचे नियोजनानुषंगाने पुणे महानगर प्रदेश प्राधिकरण यांनी पत्र क्र.भूखंड क्र.१ FPM/३४२/२०१८. दि.१९-१०-२०१८ मधील अटी/ शर्तीची पूर्तता करणे विकासक/ जमिनमालक यांचेवर बंधनकारक राहिल.



- d) प्रमाणित विकास नियंत्रण आणि प्रोत्साहन नियमावलीमधील तरतूद क्र. ६.२.६.१ नुसार बाबींची पूर्तता तसेच अग्निप्रतिबंधक उपाययोजनाबाबत भाग-४ मधील बाबींची पूर्तता करणे विकासक/ जमिनमालक बंधनकारक राहिल.
- e) नेहमीच्या वापरासाठीच्या पाणी पुरवठ्याशिवाय अग्निप्रतिबंधक व्यवस्थेकरीता, पाणीपुरवठा बाबतची पूर्तता विकासक/ जमिनमालक यांनी स्वखर्चाने, स्वजवाबदारीवर करणे आवश्यक राहिल.
- f) प्रमाणित विकास नियंत्रण आणि प्रोत्साहन नियमावलीमधील तरतूद क्र.१८ नुसार लिफ्टची सुविधा उपलब्ध करून देणे आवश्यक राहिल.
- g) अशा इमारतींचे Structural Design हे भुकंप प्रतिबंधक असणे आवश्यक राहिल. विकासकाने/ जमिनमालकाने इमारतीचे Structural Stability बाबत नोंदणीकृत Structural Engineer चे प्रमाणपत्र संबंधित अग्निशमन अधिकारी यांचेकडे व या प्राधिकरणाकडे दाखल करणे आवश्यक राहिल.
- h) भोगवटा प्रमाणपत्र देण्यापूर्वी सर्व अग्निशमन यंत्रणा व सुविधांची पूर्तता करून सदर यंत्रणा सुस्थितीत कार्यान्वित असलेबाबत अग्निशमन विभागाकडील अंतिम नाहूरकत प्रमाणपत्र सादर करणे विकासक/ जमिनमालक यांचेवर बंधनकारक राहिल.
- ३०) केंद्रशासनाच्या पर्यावरण विभागाकडील अधिसूचना क्र. S.O.३९९९ (E) दि-०९/१२/२०१६ मधील Appendix -XIV मधील पर्यावरणाच्या अटींची पूर्तता करणे विकासक / जमीनमालक यांचेवर बंधनकारक राहिल. व सदर अटी बंधनकारक असल्याबाबत हमीपत्र सादर करणे आवश्यक राहिल
- ३१) विषयांकित प्रकल्पामध्ये प्रस्तावित केलेले एकूण (Gross FSI + Non FSI) बांधकाम क्षेत्र १.१५,१५३.५६ चौ.मी. आहे. त्यामुळे या प्रकल्पास पर्यावरण विभागाकडील State Environment Assessment Authority कडून Environment Clearance प्रमाणपत्र घेणे आवश्यक आहे. सवव या प्रमाणपत्रामध्ये नमूद बांधकाम क्षेत्राचे वरील बांधकामास सुधारित Environment Clearance प्रमाणपत्र प्राप्त झालेशिवाय उर्वरित बांधकाम /विकास करता येणार नाही. सदर अट प्रकल्पाचे विकासक/जमीनमालक यांचेवर बंधनकारक राहिल.
- ३२) मोठ्या इमारत बांधकामाच्या ठिकाणी काम करणाऱ्या मजूरामधील गरोदर माता, स्तनदा माता आणि त्यांच्यासोबत असणाऱ्या ० ते ६ वर्षे वयोगटातील मुलांकरिता शेड बांधणे, शौचालय व पिण्याच्या पाण्याची , व्यवस्था पाळणाघर इ. तात्पुरत्या सुविधा कंत्राटदार किंवा बांधकाम विकासक यांनी करणे आवश्यक आहे.
- ३३) प्रस्तुत जमिनीवर भविष्यात छाननी शुल्क, प्रिमीयम शुल्क, विकास शुल्क, सुरक्षा ठेव व कामगार कल्याण उपकर इत्यादी बाबतच्या रकमेची बाकी उद्भवल्यास सदर रक्कम प्राधिकरणाकडे जमा करणे विकासक यांचेवर बंधनकारक राहिल.
- ३४) अर्जदार यांनी सादर केलेली कोणतीही माहिती अथवा कागदपत्रे ही चुकीची/दिशाभूल करणारी आढळल्यास प्रस्तुतची विकास परवानगी व प्रारंभ प्रमाणपत्र रद्द समजणेत येईल.



प्रस्तावासोबतच्या रेखांकन/बांधकाम नकाशांचे दोन संच स्वाक्षांकित करून सोबत जोडले असून प्रस्तावावासोबतची अन्य सर्व कागदपत्रे प्राधिकरणाच्या अभिलेखार्थ राखून ठेवण्यात येत आहेत.

मा.महानगर आयुक्त तथा मुख्य कार्यकारी अधिकारी यांचे मान्यतेने

  
महानगर आयुक्त,

तथा

मुख्य कार्यकारी अधिकारी  
पुणे महानगर प्रदेश विकास प्राधिकरण,  
पुणे यांचे करिता



# PART D

| ANNEXURE NO. | ANNEXURE                                                   |
|--------------|------------------------------------------------------------|
| Annexure -01 | Sanitary & Hygienic Measures                               |
| Annexure -02 | Facilities provided to Labour Hutments                     |
| Annexure -03 | Environment Statement Report 2020                          |
| Annexure -04 | FIRE NOC                                                   |
| Annexure -05 | PUC REGISTER                                               |
| Annexure -06 | Ambient air, Noise , Water Monitoring and analysis Reports |

# **ANNEXURE –I**

## **Sanitary & Hygienic Measures**

### **Sanitary and Hygiene Measures**

- Toilets and Urinals are provided to construction workers and cleaning done on daily basis.
- Separate storage tanks for storage of domestic and Drinking water (RO Water) have been provided.
- Solid waste is being disposed daily to municipal collection system.
- The provided separate area is maintained in hygiene point of view.
- Workers health will be regularly monitored and even Health insurance is provided.
- All construction activity will be followed strictly with guideline of safety measures to assure worker's health and safety.
- Rest Room provided for workers at site.
- Construction Safety Board provided on site.
-



# **ANNEXURE II**

**FACILITIES PROVIDED TO LABOUR HUTMENTS**

## **FACILITIES PROVIDED TO LABOUR HUTMENTS**

**Project Name** : "M/s. Joyville Shapoorji Housing Pvt. Ltd. (PLOT 1)

**Site Address** : S.No.98/I(P),98/1,99/2(P),99/3(P),99/4(P),101/2(P) & 101/3 at  
Village Name – Mann, Tal- Mulshi, Dist. Pune, Maharashtra – Pin Code 411 057

**Total Labour hutments:** 128 Nos of Hutments and 48 Nos of kitchen for cooking has been provided.

**Total No. of Labor** : 630 nos.

### **Facilities provided:**

1. We have provided-38 non movable toilets and 08 Nos of Urinals for Labour.
2. RO plant-Drinking Water facility at various location has also been provided including Labour colony and Site.
3. Water Tank for domestic purpose is provided. In addition, Water Tanker also comes daily for supplying water.
4. Electric bulbs, Wall mounted fan, Bed bunks etc has been provided.
5. Sewage generated at labour colony has been treated in STP (50 KL) capacity.
6. Recreational facility like Indoor games / TV with DTH connection provided.
7. Regular pest control has been done at colony and site including Rodent/Cockroach/Bed bug and mosquito etc
8. Regular visit of Doctor at labour colony.
9. Dedicated dining area provided.
10. Septic Tank & soak pits provided.

# IFFCO - TOKIO GENERAL INSURANCE CO. LTD

Regd. Office: IFFCO SADAN, C-1 Data Centre, Saket, New Delhi- 110017

Workmen's Compensation Policy Schedule

Cum Tax Invoice

ORIGINAL FOR RECIPIENT

GST Applicable



Servicing Office:

IFFCO TOKIO GENERAL INSURANCE CO LTD.

IFFCO Bhawan, 4th Floor, 161 Waterfield road,

Nr. National College, Bandra (W) ,

Mumbai- 400050. Phone No :022-25405159

State Code: 27 , GSTIN: 27AAAC07573H1Z0

General Insurance Services : 9971

|                 |                                                                                     |               |       |           |                        |                                           |
|-----------------|-------------------------------------------------------------------------------------|---------------|-------|-----------|------------------------|-------------------------------------------|
| Insured's name: | SHAPORJI PALLONI & CO.PVT.LTD...                                                    |               |       |           | Unique Invoice No..... | : 43217708                                |
| Address:        | CONTRACTOR BUILDING (BASEMENT) RAMJI BHAI KAMANI MARG,<br>BALLARD ESTATE, MUMBAI... |               |       |           | Policy No.....         | : 43217708                                |
|                 | GREATER MUMBAI (M CORP.) MAHARASHTRA Pincode: 400001                                |               |       |           | Date of issuance.....  | : 09/10/2020                              |
| State Code:     | 27                                                                                  | Country Name: | India | GSTIN:    | 27AAAC08994C324        | Policy effective from 0001 hrs 09/10/2020 |
| Phone Number:   |                                                                                     | CIN No:       |       | Agent No: | 39000575 39A           | To Midnight 09/10/2021                    |
| Aadhaar No.:    |                                                                                     |               |       |           |                        |                                           |

|           | Taxable Value | CGST       | SGST      | IGST        | CESS        |
|-----------|---------------|------------|-----------|-------------|-------------|
| Rate      |               | 9.00       | 9.00      | 0.00        | 0.00        |
| Amount    | 455283.05     | 409945.47  | 409945.47 | 0.00        | 0.00        |
| Total Tax |               | ₹819890.94 |           | Total Value | ₹5768173.99 |

|                        |                                                                                                                                     |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Trade or Business      | ENGINEERING / CONSTRUCTION / REAL ESTATE /EPC                                                                                       |
| Place of Employment(s) | ANY RISK LOCATION WITHIN INDIA WHERE INSURED OR<br>INSURED'S CONTRACTOR'S/SUB CONTRACTOR'S IS/ARE<br>CARRYING OUT THE CONTRACT WORK |

| Sr. No. | Category of Employee      | Estimated Total Wages,Salaries and other s | Rate (%)      | Premium without Service Tax (Rs.) |
|---------|---------------------------|--------------------------------------------|---------------|-----------------------------------|
| 1       | 12000 WORKERS UPTO 15000  | 2180000000.00                              | 0.2100        | 4536000.00                        |
| 2       | 12000 WORKERS ABOVE 15000 | 254832000.00                               | 0.0140        | 39675.48                          |
| 3       | 750 CLERICAL UPTO 15000   | 135000000.00                               | 0.0172        | 23220.00                          |
| 4       | 750 CLERICAL ABOVE 15000  | 135000000.00                               | 0.0140        | 18900.00                          |
| 5       | 125 BLASTING UPTO 15000   | 22500000.00                                | 0.5104        | 114840.00                         |
| 6       | 125 BLASTING ABOVE 15000  | 2967000.00                                 | 0.0319        | 945.47                            |
| 7       | 125 WORKERS UPTO 15000    | 22500000.00                                | 0.6911        | 153247.50                         |
| 8       | 125 WORKERS ABOVE 15000   | 2967000.00                                 | 0.0428        | 1280.96                           |
|         |                           | Overall Total Wages                        | 2765765000.00 |                                   |

|                                                             |
|-------------------------------------------------------------|
| Additional Clauses (Endorsements / Other details, if any)   |
| * CLASSIFICATION NO. 46                                     |
| * OCCUPANCY : ENGINEERING / CONSTRUCTION / REAL ESTATE /EPC |

# **ANNEXURE III**

**ENVIRONMENT STATEMENT REPORT 2021**



## Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

### FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

**Unique Application Number**

MPCB-ENVIRONMENT\_STATEMENT-0000034384

**Submitted Date**

26-08-2021

### PART A

#### Company Information

**Company Name**

Joyville Shapoorji Housing Pvt.Ltd.

**Application UAN number**

NA

**Address**

98/1(P), 98/2, 99/1, 99/2(P), 99/3(P), 99/4(P),  
101/2 (P) & 101/3 at Village Maan, TAL:  
Mulshi, Pune

**Plot no**

98/1(P), 98/2, 99/1, 99/2(P), 99/3(P), 99/4(P),  
101/2 (P) & 101/3

**Taluka**

Mulshi

**Village**

Maan

**Capital Investment (In lakhs)**

32190

**Scale**

LSI

**City**

Pune

**Pincode**

415023

**Person Name**

Mr.Rajendra Gadekar-AGM

**Designation**

Assistant General Manager

**Telephone Number**

9822772166

**Fax Number**

--

**Email**

rajendra.gadekar@shapoorji.com

**Region**

SRO-Pune II

**Industry Category**

Orange

**Industry Type**

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

**Last Environmental statement  
submitted online**

yes

**Consent Number**

Format1.0/BO/RO-HQ/CC-1901002430

**Consent Issue Date**

31/01/2019

**Consent Valid Upto**

31/01/2024

**Establishment Year**

0

**Date of last environment statement  
submitted**

Sep 9 2020 12:00:00:000AM

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

NA

#### Product Information

**Product Name**

NA as it is construction project

**Consent Quantity**

0

**Actual Quantity**

0

**UOM**

CMD

#### By-product Information

**By Product Name**

NA as it is construction project

**Consent Quantity**

0

**Actual Quantity**

0

**UOM**

SqFeet/Y

## Part-B (Water & Raw Material Consumption)

### 1) Water Consumption in m3/day

| Water Consumption for Process | Consent Quantity in m3/day | Actual Quantity in m3/day |
|-------------------------------|----------------------------|---------------------------|
|                               | 0                          | 0                         |
| Cooling                       | 0                          | 0                         |
| Domestic                      | 803                        | 00                        |
| All others                    | 0                          | 0                         |
| Total                         | 803                        | 00                        |

### 2) Effluent Generation in CMD / MLD

| Particulars       | Consent Quantity | Actual Quantity | UOM |
|-------------------|------------------|-----------------|-----|
| Domestic Effluent | 657              | 00              | CMD |

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

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

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

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

### 4) Fuel Consumption

| Fuel Name | Consent quantity                                | Actual Quantity | UOM   |
|-----------|-------------------------------------------------|-----------------|-------|
| HSD       | 199680 (80 lits X 8 hrs. X 26 Days X 12 Months) | NA              | Ltr/A |

## Part-C

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

#### [A] Water

| Pollutants Detail         | Quantity of Pollutants discharged (kL/day) | Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour | Percentage of variation from prescribed standards with reasons<br>%variation | Standard | Reason |
|---------------------------|--------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------------------------|----------|--------|
| BOD (3 days at 27 Degree) | NA                                         | NA                                                                   | --                                                                           | 10       | NA     |
| Suspended Solids          | NA                                         | NA                                                                   | --                                                                           | 50       | NA     |
| COD                       | NA                                         | NA                                                                   | --                                                                           | 100      | NA     |

#### [B] Air (Stack)

| Pollutants Detail | Quantity of Pollutants discharged (kL/day) | Concentration of Pollutants discharged(Mg/NM3) | Percentage of variation from prescribed standards with reasons<br>%variation | Standard      | Reason |
|-------------------|--------------------------------------------|------------------------------------------------|------------------------------------------------------------------------------|---------------|--------|
| TPM               | NA                                         | 57.03                                          | --                                                                           | 150           | NA     |
| SO2               | NA                                         | 5.76                                           | --                                                                           | Not Specified | NA     |



## Part-D

### HAZARDOUS WASTES

#### 1) From Process

| Hazardous Waste Type  | Total During Previous Financial year | Total During Current Financial year | UOM   |
|-----------------------|--------------------------------------|-------------------------------------|-------|
| 5.1 Used or spent oil | NA                                   | Nil                                 | Ltr/A |

#### 2) From Pollution Control Facilities

| Hazardous Waste Type | Total During Previous Financial year | Total During Current Financial year | UOM |
|----------------------|--------------------------------------|-------------------------------------|-----|
| 0                    | NA                                   | NA                                  | CMD |

## Part-E

### SOLID WASTES

#### 1) From Process

| Non Hazardous Waste Type | Total During Previous Financial year | Total During Current Financial year | UOM    |
|--------------------------|--------------------------------------|-------------------------------------|--------|
| Biodegradable Waste      | NA                                   | Nil                                 | Kg/Day |
| Non Biodegradable Waste  | NA                                   | Nil                                 | Kg/Day |

#### 2) From Pollution Control Facilities

| Non Hazardous Waste Type | Total During Previous Financial year | Total During Current Financial year | UOM    |
|--------------------------|--------------------------------------|-------------------------------------|--------|
| STP Sludge               | NA                                   | Nil                                 | Kg/Day |

#### 3) Quantity Recycled or Re-utilized within the unit

| Waste Type | Total During Previous Financial year | Total During Current Financial year | UOM    |
|------------|--------------------------------------|-------------------------------------|--------|
| 0          | NA                                   | NA                                  | Kg/Day |

## Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

#### 1) Hazardous Waste

| Type of Hazardous Waste Generated | Qty of Hazardous Waste | UOM    | Concentration of Hazardous Waste |
|-----------------------------------|------------------------|--------|----------------------------------|
| 5.1 Used or spent oil             | 0                      | Ltr/Hr | NA                               |

#### 2) Solid Waste

| Type of Solid Waste Generated | Qty of Solid Waste | UOM    | Concentration of Solid Waste |
|-------------------------------|--------------------|--------|------------------------------|
| Biodegradable Waste           | 0                  | Kg/Day | NA                           |
| Non Biodegradable Waste       | 0                  | Kg/Day | NA                           |

## Part-G

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

| Description | Reduction in Water Consumption (M3/day) | Reduction in Fuel & Solvent Consumption (KL/day) | Reduction in Raw Material (Kg) | Reduction in Power Consumption (KWH) | Capital Investment(In Lacs) | Reduction in Maintenance(In Lacs) |
|-------------|-----------------------------------------|--------------------------------------------------|--------------------------------|--------------------------------------|-----------------------------|-----------------------------------|
| NA          | NA                                      | NA                                               | NA                             | NA                                   | 00                          | 00                                |

## Part-H

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

**[A] Investment made during the period of Environmental Statement**

| <b><i>Detail of measures for Environmental Protection</i></b>                                                                                                          | <b><i>Environmental Protection Measures</i></b>                                                                                                                      | <b><i>Capital Investment (Lacks)</i></b> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| In year 2020-2021, the company has invested about Rs. 2,50,000/- on Air, Source Emission, Water, Noise and other pollution control maintenance and monitoring measures | In year 2019-20, the company has invested about Rs. 2,50,000/- on Air, Source Emission, Water, Noise and other pollution control maintenance and monitoring measures | 2.5                                      |

**[B] Investment Proposed for next Year**

| <b><i>Detail of measures for Environmental Protection</i></b> | <b><i>Environmental Protection Measures</i></b> | <b><i>Capital Investment (Lacks)</i></b> |
|---------------------------------------------------------------|-------------------------------------------------|------------------------------------------|
| NA                                                            | NA                                              | NA                                       |

## Part-I

**Any other particulars for improving the quality of the environment.**

**Particulars**

M/s. Joyville Shapoorji Housing Pvt. Ltd. is keen on making all efforts for zero pollution. Maximum efforts have been put in to reduce emissions and wastage of materials. They have systematic well organised material storage system. Regular monitoring of Air emissions have been found to be very well within the limits.

**Name & Designation**

Mr. Rajendra Gadekar

**UAN No:**

MPCB-ENVIRONMENT\_STATEMENT-0000034384

**Submitted On:**

26-08-2021



# **ANNEXURE I V**

**FIRE NOC**



PUNEMETROPOLIS

**पुणे महानगर प्रदेश विकास प्राधिकरण, पुणे**  
**Pune metropolitan Region Development Authority, Pune**

स.नं. १५२ - १५३, महाराजा सायजीराव गावकवाड उद्योग भवन, औद्य, पुणे - ४११००७,  
 S.No. 152 - 153, Maharaja Sayajirao Gaikwad Udyog Bhawan, Aundh, Pune - 411007  
 Ph No: 020 - 259 33 344 / 356 / 333 : फॅक्स नं. : ०२० - २५९ ३३ ३४४ / ३५६ / ३३३ Email : hqpmrda@gmail.com

Date:- 19 /10/2018

Please quote following number to  
 Building Permission for future  
 correspondence with PMRDA  
 No. FPM/342 /2018

TO,

M/S. Joyville Shapoorji Housing Pvt. Ltd  
 Survey No- 98/1(P), 98/2, 99/1, 99/2(P),  
 99/3(P), 99/4(P), 101/2(P) & 101/3.  
 Plot No. 01, Village- Maan,  
 Tal- Mulashi. Dist-Pune.

**Sub:- Issue of "02<sup>nd</sup> Revise Provisional Fire NOC" for proposed Residential Buildings (A,B,C,D,E,F), Commercial & Club House at Survey No- 98/1(P), 98/2, 99/1, 99/2(P), 99/3(P), 99/4(P), 101/2(P) & 101/3.Village- Maan, Tal - Mulashi, Dist - Pune.**

Ref: - i) "Provisional NOC" issued by this office vide no. FPM/591/2018, Dated: **10.01.2018**

ii) "01<sup>st</sup> Revise Provisional NOC" issued by this office vide no. FPM/171/2018, Dated: **23.07.2018**

iii) Your Application No 607 of 2016 dated 06.01.2018

Sir,

This has reference to the application submitted by you along with the building plans; This "Revise Provisional No-Objection Certificate" is issued for your proposed construction subject to the fulfillment of following conditions.

The details of the proposed construction area as certified by the Architect is as under:-

| Sr. No. | Particulars | Details |
|---------|-------------|---------|
|---------|-------------|---------|

File No. 607/2017, Survey No. 98,98/2,99/1 to 99/4,101/2 & 101/3. Village- Maan\_MULASHI 1



|     |                                     |                                                                                                                                                                                                   |
|-----|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.  | Address of the Proposed site        | Survey No- 98/1(P), 98/2, 99/1, 99/2(P), 99/3(P), 99/4(P), 101/2(P) & 101/3. Plot No.01, Village- Maan, Tal- Mulashi, Dist-Pune.                                                                  |
| 2.  | Builder /Developers Name            | <b>M/S. Joyville Shapoorji Housing Pvt. Ltd</b>                                                                                                                                                   |
| 3.  | Architects Name                     | Arch. Abhijit Konde                                                                                                                                                                               |
| 4.  | Classification of Building          | Residential, Commercial & Club House.                                                                                                                                                             |
| 5.  | Access Road to Plot                 | 18.00 MTRS. & 110 MTRS.                                                                                                                                                                           |
| 6.  | The Plot Area (Plot No.- 01)        | 33017.30 SQM                                                                                                                                                                                      |
| 7.  | Total Built up Area                 | 83920.56 SQM                                                                                                                                                                                      |
| 8.  | No. of Buildings                    | 09 NOS.                                                                                                                                                                                           |
| 9.  | Height of the Building              | A, B, C, E & F = 55.06 MTRS.<br>D = 58.01 MTRS.<br>Commercial = 07.35 MTRS.<br>Podium Club House 01 = 07.08 MTRS.<br>Club House 02 = 06.75 MTRS.                                                  |
| 10. | No. of Floors                       | A,B,C,E & F = Basement + Stilt + 17 Floors<br>D = Basement + Stilt + 18 Floors<br>Commercial = Ground + 01 Floor<br>Podium Club House 01 = Ground + 01 Floor<br>Club House 02 = Ground + 01 Floor |
| 11. | NO. of staircases for each building | A,B,C,D,E & F = 02 Nos. Each Bldgs.<br>Commercial = 01 Nos.<br>Podium Club House 01 = 01 Nos.<br>Club House 02 = 01 Nos.                                                                          |
| 12. | Width of the staircase              | A,B,C,D,E,F = 1.50 MTRS. Each.<br>Commercial = 1.50 MTRS.<br>Podium Club House 01 = 01.25 MTRS.<br>Club House 02 = 01.25 MTRS.                                                                    |
| 13. | Refuge Area                         | A,B,C,E & F = 08 <sup>th</sup> Floor, B/U Area= 46.32 SQM.<br>13 <sup>th</sup> Floor, B/U Area= 46.36 SQM.                                                                                        |



|     |              |                                                                                                                            |
|-----|--------------|----------------------------------------------------------------------------------------------------------------------------|
|     |              | D = 08 <sup>th</sup> & 18 <sup>th</sup> Floor. B/U Area= 46.32 SQM.<br>13 <sup>th</sup> Floor. B/U Area= 46.36 SQM.        |
| 14. | No. Of Ramps | Each Bldgs. 03 Nos.<br>Stilt to Podium- 01 Rams vide width 07.50 Mtrs.<br>Stilt to Basement- 02 Rams each width 4.00 Mtrs. |

**Open Marginal Spaces Details:-**

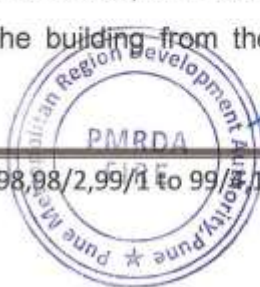
| Sr. No. | Sides      | Provisions proposed on site in Mtrs.<br>as certified by the Architect |            |                    |               |
|---------|------------|-----------------------------------------------------------------------|------------|--------------------|---------------|
|         |            | Residential                                                           | Commercial | Club House 01      | Club House 02 |
| 1       | Front Side | 12.00                                                                 | 06.00      | At Podium<br>Level | Min. 3.00     |
| 2       | Right side | 09.00 (Open Space)                                                    | 04.50      |                    | Min. 3.00     |
| 3       | Left side  | 09.00 (Open Space)                                                    | 04.50      |                    | Min. 3.00     |
| 4       | Rear side  | 09.00 (Open Space)                                                    | 04.50      |                    | Min. 3.00     |

**Details about the Proposed Buildings:-**

| Bldg. Name           | Height Of The Building | No. Of Floors                    | Total Floor Area |
|----------------------|------------------------|----------------------------------|------------------|
| A                    | 55.06 Mtrs.            | Basement + Stilt + 17 Floors     | 13816.17         |
| B                    | 55.06 Mtrs.            | Basement + Stilt + 17 Floors     | 13589.03         |
| C                    | 55.06 Mtrs.            | Basement + Stilt + 17 Floors     | 13598.92         |
| D                    | 58.01 Mtrs.            | Basement + Stilt + 18 Floors     | 14389.12         |
| E                    | 55.06 Mtrs.            | Basement + Stilt + 17 Floors     | 13608.81         |
| F                    | 55.06 Mtrs.            | Basement + Stilt + 17 Floors     | 13816.17         |
| Podium Club House 01 | 07.08 Mtrs.            | Ground + 01 <sup>st</sup> Floors | 404.96           |
| Club House 02        | 06.75 Mtrs.            | Ground + 01 <sup>st</sup> Floors | 197.92           |
| Commercial           | 07.35 Mtrs.            | Ground + 01 <sup>st</sup> Floors | 499.46           |
| <b>TOTAL</b>         | <b>207.35</b>          |                                  | <b>83920.56</b>  |

**Important :-** The Area details comprises with No. of floors/ Floor Area/ Height of the buildings/Marginal open spaces/ provision of the Refuge Area etc. are duly signed and attested by the authorized Architect. It is presumed that the Plans submitted by him are in compliance of the provisions of prevailing DC Rules & NBC. If any lapses or deviations are observed in the said proposal / drawings submitted by him, He shall be personally liable for actions deemed fit.  
**Provisions of Maharashtra Fire Prevention and Life Safety Measures Act -2006 should be strictly adhered, specifically as mentioned below:-**

1. As per the provision of **Section 3 (2)** of "Maharashtra Fire Prevention and Life Safety Measures Act, 2006" (hereinafter referred to as "said Act"). This Provisional NOC is issued.
2. Under **Section 3** of the said Act The applicant (developer, owner, occupier by whatever name called) shall comply with all the Fire and Life Safety measures adhering to National Building Code of India and as amended from time to time failing which it shall be treated as a violation of the said Act.
3. As per the provision as **under :- 10** of the said Act. No person other than the License Agency shall carry out the work of providing Fire Prevention and Life Safety Measures or performing such other related activities required to be carried out in any place or building or part thereof provided that,
  - A. No Licensed Agency or any other person claiming to be such Licensed Agency shall give a certificate under **sub-section (3) of section 3** regarding the compliance of the fire prevention and life safety measures or maintenance thereof in good repair and efficient condition, without there being actual such compliance or maintenance.
  - B. The names of the License Agencies approved by Directorate of Maharashtra is available on website [www.mahafireservice.gov.in](http://www.mahafireservice.gov.in)
4. Under **Section 11** of the said Act, the fire service fees shall be assessed and the same shall be payable after serving the notice to that effect or prior to issue of the building completion certificate or occupancy certificate whichever is earlier.
5. Under **Section 5(1)** of the said Act, The Chief Fire officer, PMRDA reserve the right to enter and inspect the building from the point of view of Fire prevention and Protection





6. Though certain conditions are stipulated from the said Act and the National Building Code of India, it is obligatory on part of the applicant that is developer, builder, occupier, owner, tenant, by what so ever named called to abide with the provisions of the said Act failing which it shall be actionable under the provisions of said act.

**This Provisional N.O.C. is valid subject to fulfillment of the following conditions:-**

1. The scope of this approval is restricted to fire protection arrangements only. This approval should not be treated/ presumed as an approval for civil / architectural drawings.
2. The area calculation statements TDR/FSI/FAR/ZONE/USE etc shall be subject to verification and approval of PMRDA's competent Authority.
3. The plans of the proposed building should be approved by PMRDA's Competent Authority.
4. The occupation certificate should be obtained from PMRDA's Competent Authority. The O.C. shall be issued subject to "Final No-Objection Certificate" from this Department.
5. Approach Road to the above maintained Property/ Site should be provided as per DCPR requirements mentioned in Regulation 12.6, Pl. Note that if the proposed road is not constructed/ provided; till the time of completion of the project, The Final Fire NOC may not be issued.
6. The required Marginal Open spaces as per DCPR requirements mentioned in Regulation 15.1 should be kept obstruction free at all time. Parking of vehicles should not obstruct the mobility of fire vehicles at any time.
7. Proper roads in the premises should be provided for easy mobility of the Fire Brigade Appliance & the roads should be capable to hold weight of fire appliances.
8. Every vertical opening between the floors of a building shall be suitably enclosed or protected. Opening in wall or floors which are necessary to be provide to allow passages of all building services like cables, electrical wirings, telephone



10/10

cables, plumbing pipes, etc shall be protected by enclosure in the form of ducts/shafts having a fire resistance not less than 2 hours.

9. The Space between conduits pipes and the wall/slabs shall be filled in by a filler material having fire resistance rating not less than 1 hours.
10. Detailed drawings of fire protection system should be submitted for the approval of fire department before starting the detail execution.
11. All portable fire fighting equipments installed at various locations as per local hazard such as Co2-DCP, Fire buckets & it must be strictly confirming to relevant IS specification.
12. Delivery hose (RRL) should be strictly ISI marked (In no case canvas hose should be provided)
13. For Basement proper Light, Ventilation and Exhaust mechanism should be provided in accordance with the provisions as specified in the National Building Code and relevant IS Standards.
14. If parking area exceed 1125 SQM. & Basement area exceeds 200 SQM Sprinkler system should be provided.
15. Fire door as per BS-467 Part 20 & 22 should be provided for lift lobbies and fire staircase on each floor. Fire door duly tested and approved from Govt. Laboratory such as CBRI-Roorkee etc. should be submitted
16. Fire Lift should provide in accordance with the provision of National Building Code of India.
17. All the firefighting equipment's shall be well maintained and should be easily accessible in case of emergency.
18. Provision of mechanized/ automatic ventilation should be done in accordance with NBC.
19. Code of Practice for Liquefied Petroleum Gas storage and Installations as per IS 6044-2000 should be strictly adhered, and Gas piping should be done from the authorized installer only.



|    |                                                  |                                                                                                                                                                                                                                |                                                    |                                                                                                                                                                                                                                                                                                      |
|----|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4. | Yard Hydrant or Ring hydrant around the building | Required for all Bldgs.                                                                                                                                                                                                        | At Various Strategic Locations.                    | Hydrant points should be provided with 2 Nos. of Delivery Hose confirming to IS-14933-2001 along with Standard Branch (Universal) confirming to IS-2871. For Yard Hydrant distance between 2 Hydrants should not be more than 45 mtrs. <u>The guidelines should be followed as per IS 3844:1989.</u> |
| 5. | Terrace Level Tank                               | Min. 5,000Ltrs. Residential Building A,B,C,D,E,F                                                                                                                                                                               | Min. 5,000 Ltrs. For club house 1, 2 & Commercial. | On Terrace level of buildings                                                                                                                                                                                                                                                                        |
| 6. | Underground Static Storage Tank                  | Required 2,00,000 liters.                                                                                                                                                                                                      |                                                    |                                                                                                                                                                                                                                                                                                      |
| 7. | Fire Pump                                        | <b>1 set of pump comprises of following :-</b><br><b>02 No. 2850 lpm electrical driven main pump.</b><br><b>1 No.2850 lpm Diesel Driven</b><br><b>01 No.450 lpm Jokey pump</b><br><b>1 No. 450 lpm Booster pump each Bldg.</b> |                                                    | One set of pumps shall be provide for each 100 Hydrant or part thereof (Including Peripheral ring).In case of more than one pump sets all the pump sets should be interconnected at there delivery headers.<br>Booster On terrace level                                                              |
| 8. | Automatic Sprinkler system                       | Required for residential buildings including lower parking, upper parking, including all flats, Rooms, Kitchen & Basement etc.                                                                                                 |                                                    | Sprinkler system should be provided Guidelines is given i. IS 15105 Design and installation of Fixed Automatic sprinkler fire Extinguishing system.                                                                                                                                                  |
| 9. | Manually Operated Fire Alarm System              | Required for all Bldgs.                                                                                                                                                                                                        | At various location                                | Manually Operated Fire Alarm should be provided; it should be connected to alternate power supply in case of emergency.                                                                                                                                                                              |





|     |                                                                                              |                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                        |
|-----|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10. | Addressable Detection System                                                                 | Required for building all Bldgs.                                                                                                                                                                                                         | Automatic Smoke Detection system should be provided. Standards and guidelines given in IS-11360-1985 specification for Smoke Detectors for use in Automatic Electrical Fire Alarm system. <u>Detection system for Cable Trench should be provided.</u> |
| 11. | LPG/PNG Gas detection system                                                                 | Required in all kitchen Area.                                                                                                                                                                                                            |                                                                                                                                                                                                                                                        |
| 12. | Staircase & Lift pressurization (Bldgs. A , B, C, D, E, F)                                   | Pressurization system should be interconnected with the automatic/manual fire alarm system for actuation. It will be desirable to have all the staircases in a building pressurized, However at least one staircase must be pressurized. |                                                                                                                                                                                                                                                        |
| 13. | Fire Brigade Connection- For Static Water Tank and For Hydrant System                        | Required at the Main Gate.                                                                                                                                                                                                               |                                                                                                                                                                                                                                                        |
| 14. | Sign Indicators for all fire safety, safe evacuation of occupants in case of emergency signs | Required at Prominent Places.                                                                                                                                                                                                            | Sign indicators should provided at prominent places as per the guidelines given in IS:9457 for Safety colour and Safety IS:12349 for Fire Protection Safety Signs IS:12407 for Graphics symbols for Fire Protection Plan.                              |

**Details about the Fire protection Fees paid:-**

| Sr. No. | FIRE-FILE NO. | Built up Area for Fees calculation                        | Total Amount                                                                                                  | Payment Challan No & payment Date                       |
|---------|---------------|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| 1.      | FIRE/607/2017 | Residential, Commercial, Club House 1 & 2 = 94664.91 SQM. | <u>Rs. 1,88,23,340/-</u><br>(One Core Eighty Eight Lac Twenty Three Thousand Three Hundred Forty Rupees Only) | CHALLAN NO.636<br>DATED. 08.01.2018<br>J. No.- 4998669  |
| 2.      | FIRE/191/2017 | Residential, Commercial, Club House 1 & 2 = 84144.03 SQM. | <u>Rs. 2,05,76,410/-</u><br>(Two Core Five Lac Seventy Six Thousand Four Hundred Ten Rupees Only)             | CHALLAN NO. 225<br>DATED. 19.07.2018<br>J. No.- 5158592 |

(\* In future, if the difference of fees is assessed, the same will be recovered from the owner or Developers as the case may be)

This "Provisional No objection Certificate" shall be treated valid for the periods of One Year from the date of issue.

After compliance with above mentioned recommendations / conditions, inspection of the fire prevention & protection systems provided by you will be carried out by this department & after satisfactory performance of the system "**Final No-Objection Certificate**" will be issued.

The undersigned reserves right to amend any additional recommendations deemed fit during the final inspection due to the statutory provisions amended from time to time and in the interest of the protection of your Residential, Commercial & Club House.

Thanking you.



Yours faithfully,

*Devendra Potphode*  
19/10/2018  
(Devendra Potphode)  
Chief Fire Officer  
PMRDA, PUNE.

# Annexure V

## PUC Registration

# POLLUTION UNDER CONTROL CERTIFICATE

Issued By: PUNE  
Authorised: Motor Vehicles Department, Maharashtra



TEST RESULT : PASS

VALID TILL: 24/Jun/2021

Certificate No.: MH01201360004010  
Registration No.: MH06K8443  
Chassis No.: 214475  
Engine No.: 372510  
Class of Vehicle: Excavator (NT)  
Make: TATA MOTORS LTD  
Model: 2516  
Vehicle Category: HEAVY GOODS  
Date of Registration: 23/Dec/2004  
Emission Norms: BHARAT STAGE II  
Fuel: DIESEL  
Date of Testing: 25/Dec/2020

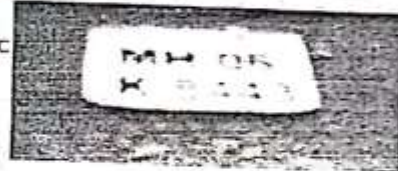


DIESEL DRIVEN VEHICLES  
Certified that the vehicle conforms to the standards prescribed  
under rule 115(2) of CMV Rules 1989

| FUEL   | Light Absorption Coefficient<br>(Permissible Limit) | Measured<br>Value |
|--------|-----------------------------------------------------|-------------------|
| DIESEL | 2.45                                                | 0.32              |

Time of Testing: 18:55:04  
Fee Charged: Rs.110.0  
Fee Charged: (one hundred ten  
rupees only)

Auto Emission Testing Centre Code:  
MH0120136  
Testing Centre Name: HINDUSTAN PUC  
CENTER  
Centre Address: SR NO. 14 SOLAPUR  
ROAD, HADAPSAR PUNE, 411028  
Test Conducted By: KAZI ABDUL  
AHMED HASAN



## TEST RESULT FOR DIESEL VEHICLE

|        | IDLE RPM  | MAX RPM | K VALUE | OIL TEMP |
|--------|-----------|---------|---------|----------|
| TEST 1 | 555.0     | 4555.0  | 0.32    | 55.0     |
| TEST 2 | 500.0     | 4555.0  | 0.32    | 55.0     |
| TEST 3 | 500.0     | 4555.0  | 0.32    | 55.0     |
| AVG    | 518.33334 | 4555.0  | 0.32    | 55.0     |

This is a computer generated certificate and does not require signature

**POLLUTION UNDER CONTROL CERTIFICATE**  
Issued By: PIMPRI-CHINCHWAD  
Authorised by Motor Vehicles Department, Maharashtra



**TEST RESULT : PASS**  
**VALID TILL: 13/Feb/2022**

Certificate St. No.: MH01400270005168  
Registration No.: MH14GU5445  
Chassis No.: MAT410235JAB\*\*\*\*\*  
Engine No.: 81A844\*\*\*\*\*  
Class of Vehicle: Goods Carrier  
Make: TATA MOTORS LTD  
Model: S0549538000R  
Vehicle Category: HEAVY GOODS  
VEHICLE  
Date of Registration: 28/Mar/2018  
Emission Norms: BHARAT STAGE IV  
Fuel: DIESEL  
Date of Testing: 14/Feb/2021



**DIESEL DRIVEN VEHICLES**  
Certified that the vehicle conforms to the standards prescribed under rule 115(2) of CMV Rules 1989

| FUEL   | Light Absorption Coefficient<br>(Permissible Limit) | Measured<br>Value |
|--------|-----------------------------------------------------|-------------------|
| DIESEL | 1.62                                                | 0.14434           |

Time of Testing: 17:33:12  
Fee Charged: Rs.110.0  
Fee Charged: 2  
(one hundred ten rupees only)

Auto Emission Testing Centre Code: MH0140027  
Testing Centre Name: KAKADE AGENCIES  
Centre Address:  
H.NO.281,AADARSHNAGAR,HINJEWADI,PUNE,411057  
Test Conducted By: MR.PRAKASH SURYAKANT  
KAKADE



**TEST RESULT FOR DIESEL VEHICLE**

|        | IDLE RPM | MAX RPM | K VALUE | OIL TEMP |
|--------|----------|---------|---------|----------|
| TEST 1 | 699.0    | 4617.0  | 0.169   | 0.0      |
| TEST 2 | 699.0    | 6177.0  | 0.264   | 0.0      |
| TEST 3 | 699.0    | 5217.0  | 0.0     | 0.0      |
| AVG    | 699.0    | 5337.0  | 0.14434 | 0.0      |

This is a computer generated certificate and does not require signature



**POLLUTION UNDER CONTROL CERTIFICATE**  
Issued By: PIMPRI-CHINCHWAD  
Authorised by Motor Vehicles Department, Maharashtra



TEST RESULT : PASS  
VALID TILL: 13/Feb/2022

Certificate St. No.: MH01400270005169  
Registration No.: MH14GU5444  
Chassis No.: MAT4482351AB\*\*\*\*\*  
Engine No.: B1A844\*\*\*\*\*  
Class of Vehicle: Goods Carrier  
Make: TATA MOTORS LTD  
Model: 50649638000R  
Vehicle Category: HEAVY GOODS  
Date of Registration: 28/Mar/2018  
Emission Norms: BHARAT STAGE IV  
Fuel: DIESEL  
Date of Testing: 14/Feb/2021



DIESEL DRIVEN VEHICLES  
Certified that the vehicle conforms to the standards prescribed  
under rule 115(2) of CMV Rules 1989

| FUEL   | Light Absorption Coefficient<br>(Permissible Limit) | Measured<br>Value |
|--------|-----------------------------------------------------|-------------------|
| DIESEL | 1.62                                                | 0.301             |

Time of Testing: 18:25:04  
Fee Charged: Rs. 110.0  
(one hundred ten  
rupees only)

Auto Emission Testing Centre Code: MH0140027  
Testing Centre Name: KAKADE AGENCIES  
Centre Address:  
H.NO.281, AADARSHNAGAR, HINDEWADI, PUNE, 411057  
Test Conducted By: MR. PRAKASH SURYAKANT  
KAKADE



**TEST RESULT FOR DIESEL VEHICLE**

|        | IDLE RPM | MAX RPM | K. VALUE | OIL TEMP |
|--------|----------|---------|----------|----------|
| TEST 1 | 1156.0   | 3777.0  | 0.39     | 0.0      |
| TEST 2 | 1156.0   | 2997.0  | 0.202    | 0.0      |
| TEST 3 | 1156.0   | 3597.0  | 0.311    | 0.0      |
| AVG    | 1156.0   | 3457.0  | 0.301    | 0.0      |

This is a computer generated certificate and does not require signature

# POLLUTION UNDER CONTROL CERTIFICATE

Issued By: PUNE  
Authorized Motor Vehicles Department, Maharashtra



TEST RESULT : PASS

VALID TILL: 24/Jun/2021

Certificate No.: MH01201360004015  
Registration No.: MH15CK2890  
Chassis No: MAT448003A3BO2037  
Engine No.: 01B62841611  
Class of Vehicle: Goods Carrier  
Make: TATA MOTORS LTD  
Model: LPK 2518TC BSIII  
TRANSIT MIXER  
Vehicle Category: HEAVY GOODS  
VEHICLE  
Date of Registration: 07/May/2010  
Emission Norms: BHARAT STAGE III  
Fuel: DIESEL  
Date of Testing: 25/Dec/2020



DIESEL DRIVEN VEHICLES  
Certified that the vehicle conforms to the standards prescribed  
under rule 115(2) of CMV Rules 1989

| FUEL   | Light Absorption Coefficient<br>(Permissible Limit) | Measured<br>Value |
|--------|-----------------------------------------------------|-------------------|
| DIESEL | 2.45                                                | 0.41              |

Time of Testing: 19:01:27  
Fee Charged: Rs.110.0  
Fee Charged: (one hundred ten rupees only)

Auto Emission Testing Centre Code: MH0120136  
Testing Centre Name: HINDUSTAN PUC  
CENTER  
Centre Address: SR NO. 14 SOLAPUR  
ROAD, HADAPSAR PUNE, 411028  
Test Conducted By: KAZI ABDUL  
AHMED HASAN



## TEST RESULT FOR DIESEL VEHICLE

|        | IDLE RPM  | MAX RPM | K VALUE | OIL TEMP |
|--------|-----------|---------|---------|----------|
| TEST 1 | 817.0     | 2233.0  | 0.57    | 255.0    |
| TEST 2 | 817.0     | 2432.0  | 0.34    | 255.0    |
| TEST 3 | 813.0     | 2499.0  | 0.32    | 255.0    |
| AVG    | 815.66667 | 2388.0  | 0.41    | 255.0    |

This is a computer generated certificate and does not require signature  
Fuel Norms entered by PUC center MH0120136 manually. Please visit RTO and correct norms



**POLLUTION UNDER CONTROL CERTIFICATE**  
Issued By: PUNE  
Author:  Motor Vehicles Department, Maharashtra



TEST RESULT : PASS  
VALID TILL: 25/Jun/2021

Certificate St. No.: MH01201360004051  
Registration No.: MH06K6668  
Chassis No.: 396091AVZ201301  
Engine No.: 40A62313208  
Class of Vehicle: Goods Carrier  
Make: TATA MOTORS LTD  
Model: TATA 2516  
Vehicle Category: HEAVY GOODS  
Date of Registration: 30/Apr/2004  
Emission Norms: BHARAT STAGE III  
Fuel: DIESEL  
Date of Testing: 26/Dec/2020

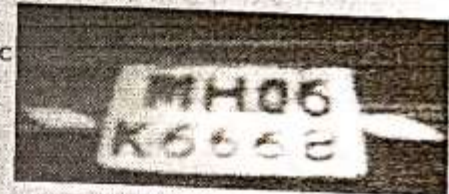


DIESEL DRIVEN VEHICLES  
Certified that the vehicle conforms to the standards prescribed  
under rule 115(2) of CMV Rules 1989

| FUEL   | Light Absorption Coefficient<br>(Permissible Limit) | Measured<br>Value |
|--------|-----------------------------------------------------|-------------------|
| DIESEL | 2.45                                                | 0.10667           |

Time of Testing: 16:40:04  
Fee Charged: Rs.110.0  
Fee Charged: (one hundred ten rupees only)

Auto Emission Testing Centre Code: MH0120136  
Testing Centre Name: HINDUSTAN PUC  
CENTER  
Centre Address: SR NO. 14 SOLAPUR  
ROAD, HADAPSAR PUNE, 411028  
Test Conducted By: KAZI ABDUL  
AHMED HASAN



**TEST RESULT FOR DIESEL VEHICLE**

|        | IDLE RPM  | MAX RPM    | K VALUE | OIL TEMP |
|--------|-----------|------------|---------|----------|
| TEST 1 | 800.0     | 2878.0     | 0.09    | 255.0    |
| TEST 2 | 740.0     | 2775.0     | 0.14    | 255.0    |
| TEST 3 | 796.0     | 2913.0     | 0.09    | 255.0    |
| AVG    | 778.66667 | 2855.33334 | 0.10667 | 255.0    |

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Fuel Norms entered by PUC center MH0120136 manually. Please visit RTO and correct norms



# POLLUTION UNDER CONTROL CERTIFICATE

Issued By: PUNE  
Authorised Motor Vehicles Department, Maharashtra



TEST RESULT : PASS  
VALID TILL: 24/Jun/2021

Certificate No.: MH01201360004010  
Registration No.: MH06K8443  
Chassis No.: 214475  
Engine No.: 372510  
Class of Vehicle: Excavator (NT)  
Make: TATA MOTORS LTD  
Model: 2516  
Vehicle Category: HEAVY GOODS  
Date of Registration: 23/Dec/2004  
Emission Norms: BHARAT STAGE II  
Fuel: DIESEL  
Date of Testing: 25/Dec/2020



DIESEL DRIVEN VEHICLES  
Certified that the vehicle conforms to the standards prescribed  
under rule 115(2) of CMV Rules 1989

| FUEL   | Light Absorption Coefficient<br>(Permissible Limit) | Measured<br>Value |
|--------|-----------------------------------------------------|-------------------|
| DIESEL | 2.45                                                | 0.32              |

Time of Testing: 18:55:04  
Fee Charged: Rs.110.0  
Fee Charged: (one hundred ten rupees only)

Auto Emission Testing Centre Code: MH0120136  
Testing Centre Name: HINDUSTAN PUC  
CENTER  
Centre Address: SR NO. 14 SOLAPUR  
ROAD, HADAPSAR PUNE, 411028  
Test Conducted By: KAZI ABDUL  
AHMED HASAN



## TEST RESULT FOR DIESEL VEHICLE

|        | IDLE RPM  | MAX RPM | K VALUE | OIL TEMP |
|--------|-----------|---------|---------|----------|
| TEST 1 | 555.0     | 4555.0  | 0.32    | 55.0     |
| TEST 2 | 500.0     | 4555.0  | 0.32    | 55.0     |
| TEST 3 | 500.0     | 4555.0  | 0.32    | 55.0     |
| AVG    | 518.33334 | 4555.0  | 0.32    | 55.0     |

This is a computer generated certificate and does not require signature

# POLLUTION UNDER CONTROL CERTIFICATE

Issued By: PUNE  
Authorised: Motor Vehicles Department, Maharashtra



TEST RESULT : PASS  
VALID TILL: 24/Jun/2021

Certificate No.: MH01201360004021  
Registration No.: MH14V5653  
Chassis No.: 396091GVZ209502  
Engine No.: 40G62346901  
Class of Vehicle: Goods Carrier  
Make: TATA MOTORS LTD  
Model: LPK 2518 TC  
Vehicle Category: HEAVY GOODS  
VEHICLE  
Date of Registration: 13/Sep/2004  
Emission Norms: BHARAT STAGE III  
Fuel: DIESEL  
Date of Testing: 25/Dec/2020



DIESEL DRIVEN VEHICLES  
Certified that the vehicle conforms to the standards prescribed  
under rule 115(2) of CMV Rules 1989

| FUEL   | Light Absorption Coefficient<br>(Permissible Limit) | Measured<br>Value |
|--------|-----------------------------------------------------|-------------------|
| DIESEL | 2.45                                                | 0.24667           |

Time of Testing: 19:10:39  
Fee Charged: Rs.110.0  
Fee Charged: (one hundred ten rupees only)

Auto Emission Testing Centre Code: MH0120136  
Testing Centre Name: HINDUSTAN PUC  
CENTER  
Centre Address: SR NO. 14 SOLAPUR  
ROAD, HADAPSAR PUNE, 411028  
Test Conducted By: KAZI ABDUL  
AHMED HASAN



## TEST RESULT FOR DIESEL VEHICLE

|        | IDLE RPM  | MAX RPM    | K VALUE | OIL TEMP |
|--------|-----------|------------|---------|----------|
| TEST 1 | 817.0     | 2620.0     | 0.29    | 255.0    |
| TEST 2 | 859.0     | 2482.0     | 0.19    | 255.0    |
| TEST 3 | 831.0     | 2684.0     | 0.26    | 255.0    |
| AVG    | 835.66667 | 2595.33334 | 0.24667 | 255.0    |

This is a computer generated certificate and does not require signature  
Fuel Norms entered by PUC center MH0120136 manually, Please visit RTO and correct norms



**POLLUTION UNDER CONTROL CERTIFICATE**  
Issued By: PUNE  
Authorised by Motor Vehicles Department, Maharashtra



TEST RESULT : PASS  
VALID TILL: 25/Jun/2021

Certificate St. No.: MH01201360004065  
Registration No.: **MH31CQ6192**  
Chassis No.: 396091AUZ201383  
Engine No.: 50A62384962  
Class of Vehicle: Goods Carrier  
Make: TATA MOTORS LTD  
Model: 2516/C/E2/LPK/3880  
TIPPER  
Vehicle Category: HEAVY GOODS  
VEHICLE  
Date of Registration: 12/Jan/2010  
Emission Norms: BHARAT STAGE III  
Fuel: DIESEL  
Date of Testing: 26/Dec/2020

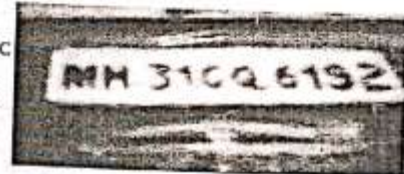


DIESEL DRIVEN VEHICLES  
Certified that the vehicle conforms to the standards prescribed  
under rule 115(2) of CMV Rules 1989

| FUEL   | Light Absorption Coefficient<br>(Permissible Limit) | Measured<br>Value |
|--------|-----------------------------------------------------|-------------------|
| DIESEL | 2.45                                                | 0.02              |

Time of Testing: 20:14:28  
Fee Charged: Rs.110.0  
Fee Charged: (one hundred ten rupees only)

Auto Emission Testing Centre Code: MH0120136  
Testing Centre Name: HINDUSTAN PUC  
CENTER  
Centre Address: SR NO. 14 SOLAPUR  
ROAD, HADAPSAR PUNE, 411028  
Test Conducted By: KAZI ABDUL  
AHMED HASAN



| TEST RESULT FOR DIESEL VEHICLE |          |           |         |          |
|--------------------------------|----------|-----------|---------|----------|
|                                | IDLE RPM | MAX RPM   | K VALUE | OIL TEMP |
| TEST 1                         | 804.0    | 3121.0    | 0.02    | 255.0    |
| TEST 2                         | 808.0    | 2865.0    | 0.02    | 255.0    |
| TEST 3                         | 808.0    | 3052.0    | 0.02    | 255.0    |
| AVG                            | 806.6667 | 3012.6667 | 0.02    | 255.0    |

This is a computer generated certificate and does not require signature  
Fuel Norms entered by PUC center MH0120136 manually, Please visit RTO and correct norms.

**POLLUTION UNDER CONTROL CERTIFICATE**

Issued By: PIMPRI-CHINCHWAD  
Authorised by Motor Vehicles Department, Maharashtra

**TEST RESULT : PASS****VALID TILL: 15/Nov/2021**

Certificate No.: MH01400270004600  
Registration No.: MH14HG5444  
Chassis No.: MAT44885613329931  
Engine No.: 85.9B45180K181J63730772  
Class of Vehicle: Goods Carrier  
Make: TATA MOTORS LTD  
Model: 50640338000R  
Vehicle Category: HEAVY GOODS VEHICLE  
Date of Registration: 30/Nov/2018  
Emission Norms: BHARAT STAGE IV  
Fuel: DIESEL  
Date of Testing: 16/Nov/2020



**DIESEL DRIVEN VEHICLES**  
Certified that the vehicle conforms to the standards  
prescribed under rule 115(2) of CMV Rules 1989

| FUEL   | Light Absorption Coefficient<br>(Permissible Limit) | Measured<br>Value |
|--------|-----------------------------------------------------|-------------------|
| DIESEL | 1.62                                                | 1.27267           |

Time of Testing: 09:38:00  
Fee Charged: Rs. 110.00  
Fee Charged: 92  
(one hundred ten  
rupees only)

Auto Emission Testing Centre Code: MH0140027  
Testing Centre Name: KAKADE AGENCIES  
Centre Address:  
H.NO.281, AADARSHNAGAR, HINJEWADI, PUNE 411057  
Test Conducted By: MR. PRAKASH SURYAKANT  
KAKADE

**TEST RESULT FOR DIESEL VEHICLE**

|        | IDLE RPM | MAX RPM    | K-VALUE | OIL TEMP |
|--------|----------|------------|---------|----------|
| TEST 1 | 1160.0   | 6920.0     | -0.625  | 0.0      |
| TEST 2 | 1160.0   | 4617.0     | 1.823   | 0.0      |
| TEST 3 | 1160.0   | 5097.0     | 1.37    | 0.0      |
| AVG    | 1160.0   | 5544.66667 | 1.27267 | 0.0      |

This is a computer generated certificate and does not require signature

# Paper Advertisement

## PUBLIC NOTICE

This is to inform you that project known as "Proposed Group Housing project" by M/s Joyville Shapoorji Housing Pvt. Ltd., located at Address - S.No.98/1(P),98/2, 99/1,99/2(P),99/3(P),99/4(P),101/2(P) & 101/3 at Village Name - Mann, Tal. Mulshi, Dist. Pune, Pin code 411 057, State-Maharashtra, has been accorded Environment Clearance vide letter No. SEIAA- EC-0000000658 dated 1<sup>st</sup> February 2019. Copy of the clearance letter is available with Maharashtra Pollution Control Board and be seen on the website of Environment Dept., of Maharashtra at <http://www.ecmpcb.in/>

— Signature —

M/s Joyville Shapoorji Housing Pvt. Ltd

## जाहीर नोटीस

सर्व्हे क्रमांक ९८/१ (पि), ९८/२, ९९/१, ९९/२ (पि), ९९/३ (पि), ९९/४ (पि), १०१/२ (पि) व १०१/३, मौजे माण, ता मुळशी, पुणे, पिन ४११ ०५७, राज्य - महाराष्ट्र या मिळकतीवर मेसर्स जॉयव्हील शापूरजी हौसिंग प्रायव्हेट लिमिटेड कंपनीच्या नियोजित गृहप्रकल्पास पर्यावरण विषयक मंजूरी एसईआयएए-ईसी - ००००००६५८ या पत्राद्वारे दिनांक १ फेब्रुवारी २०१९ रोजी देण्यात आली आहे. सदर पर्यावरण विषयक मंजूरीची प्रत महाराष्ट्र प्रदूषण नियंत्रक मंडळ यांचे कार्यालयामध्ये तसेच पर्यावरण विभाग महाराष्ट्र शासन यांच्या वेवसाइटवर <http://www.ecmpcb.in/> येथे उपलब्ध आहे.

सही

मे.जॉयव्हील शापूरजी हौसिंग प्रा. लि.



# Annexure VI

Ambient Air Water Noise Monitoring and Analysis

## AMBIENT AIR QUALITY MONITORING ANALYSIS REPORT

### TEST REPORT

Date – 11/05/2021

Date: 22/05/2021

|                                           |                                                                                                                                               |                    |                        |                                                          |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------------|----------------------------------------------------------|
| Sample/Report No.                         | GE/LAB/AAQ/JSHPL1                                                                                                                             |                    |                        |                                                          |
| Name Of Customer                          | M/s. Joyville Shapoorji Housing Pvt. Ltd.                                                                                                     |                    |                        |                                                          |
| Address Of Customer                       | “Proposed Residential & Commercial Scheme”, S.No.98/1(P) 98/2, 99/1, 99/2(P), 99/3(P), 99/4(P),101/2(P)&101/3 At Vill- Maan, Tal- Mulshi,Pune |                    |                        |                                                          |
| Sample Drawn By                           | Vendor on 04/05/2021                                                                                                                          | Sample Received On | 05/05/2021             |                                                          |
| Start of Analysis                         | 05/05/2021                                                                                                                                    | End Of Analysis    | 07/05/2021             |                                                          |
| Monitoring For                            | Ambient Air Monitoring                                                                                                                        | Sampling Location  | Near Sales Office Area |                                                          |
| Sampling Duration                         | 24 Hrly                                                                                                                                       | Receptor Height    | 2.00 meter from G.L.   |                                                          |
| Ambient Temperature                       | Max- 40.8 <sup>0</sup> C, Min-24.9 <sup>0</sup> C                                                                                             | Relative Humidity  | Max- 31.1%, Min- 22.0% |                                                          |
| Limits                                    | National Ambient Air Quality Standards Vide GSR 826(E)16.11.2009                                                                              |                    |                        |                                                          |
| Parameters                                | Unit                                                                                                                                          | Result             | Limits                 | Method Of Analysis                                       |
| General Parameters                        |                                                                                                                                               |                    |                        |                                                          |
| Particulate matter less than 10 micron    | µg/m <sup>3</sup>                                                                                                                             | 64.57              | 100                    | EPA/625/R-96/010a(Compendium Method IO-2.1): 2017        |
| Particulate matter less than2.5 micron    | µg/m <sup>3</sup>                                                                                                                             | 32.44              | 60                     | USEPA Method Aerosol Science Tech FRM 35(4)339-342: 2017 |
| Sulphur Dioxide                           | µg/m <sup>3</sup>                                                                                                                             | 19.70              | 80                     | IS 5182 ( part II ) 2001,Reaff: 2017                     |
| Oxides of Nitrogen                        | µg/m <sup>3</sup>                                                                                                                             | 23.86              | 80                     | IS 5182 ( part VI ) 2006,Reaff:2017                      |
| Carbon Monoxide                           | mg/m <sup>3</sup>                                                                                                                             | 0.42               | 2.0                    | IS 5182 ( part X ) 1999,Reaff: 2014                      |
| Lead                                      | µg/m <sup>3</sup>                                                                                                                             | BDL                | 1                      | IS 5182 (part XXII) 2004,Reaff:2014                      |
| Ozone                                     | µg/m <sup>3</sup>                                                                                                                             | 21.63              | 100                    | IS 5182 (part IX) 1974, Reaff: 2014                      |
| Ammonia                                   | µg/m <sup>3</sup>                                                                                                                             | BDL                | 400                    | APHA 2nd Edition Method No. 401                          |
| Benzene                                   | µg/m <sup>3</sup>                                                                                                                             | BDL                | 5                      | IS 5182 (part XI) 2006, Reaff- 2017                      |
| Benzo (a) Pyrene - Particulate Phase only | ng/m <sup>3</sup>                                                                                                                             | BDL                | 1                      | IS 5182 (Part 12):2004,Reaff: 2014                       |
| Arsenic                                   | ng/m <sup>3</sup>                                                                                                                             | BDL                | 6                      | APHA 2nd Edition Method No. 822                          |
| Nickel                                    | ng/m <sup>3</sup>                                                                                                                             | BDL                | 20                     | APHA 2nd Edition Method No. 822                          |

●BDL: Below Detection Limits.

●Remarks: - Monitoring Results are well within the limits prescribed by CPCB.

For GREEN ENVIRO

*Sm Joshi*

Govt. Analyst



## AMBIENT AIR QUALITY MONITORING ANALYSIS REPORT

### TEST REPORT

Date – 11/05/2021

|                                           |                                                                                                                                                |                    |                         |                                                          |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------------------|----------------------------------------------------------|
| Sample/Report No.                         | GE/LAB/AAQ/JSHPL2                                                                                                                              |                    |                         |                                                          |
| Name Of Customer                          | M/s. Joyville Shapoorji Housing Pvt. Ltd.                                                                                                      |                    |                         |                                                          |
| Address Of Customer                       | “Proposed Residential & Commercial Scheme”, S.No.98/1(P) 98/2, 99/1, 99/2(P), 99/3(P), 99/4(P),101/2(P)&101/3 At Vill- Maan, Tal- Mulshi, Pune |                    |                         |                                                          |
| Sample Drawn By                           | Vendor on 04/05/2021                                                                                                                           | Sample Received On | 05/05/2021              |                                                          |
| Start of Analysis                         | 05/05/2021                                                                                                                                     | End Of Analysis    | 07/05/2021              |                                                          |
| Monitoring For                            | Ambient Air Monitoring                                                                                                                         | Sampling Location  | Near Site Safety Office |                                                          |
| Sampling Duration                         | 24 Hrly                                                                                                                                        | Receptor Height    | 2.00 meter from G.L.    |                                                          |
| Ambient Temperature                       | Max- 40.4 <sup>0</sup> C, Min-24.3 <sup>0</sup> C                                                                                              | Relative Humidity  | Max- 31.8%, Min- 22.6%  |                                                          |
| Limits                                    | National Ambient Air Quality Standards Vide GSR 826(E)16.11.2009                                                                               |                    |                         |                                                          |
| Parameters                                | Unit                                                                                                                                           | Result             | Limits                  | Method Of Analysis                                       |
| General Parameters                        |                                                                                                                                                |                    |                         |                                                          |
| Particulate matter less than 10 micron    | µg/m <sup>3</sup>                                                                                                                              | 70.34              | 100                     | EPA/625/R-96/010a(Compendium Method IO-2.1): 2017        |
| Particulate matter less than2.5 micron    | µg/m <sup>3</sup>                                                                                                                              | 36.67              | 60                      | USEPA Method Aerosol Science Tech FRM 35(4)339-342: 2017 |
| Sulphur Dioxide                           | µg/m <sup>3</sup>                                                                                                                              | 22.93              | 80                      | IS 5182 ( part II ) 2001,Reaff: 2017                     |
| Oxides of Nitrogen                        | µg/m <sup>3</sup>                                                                                                                              | 28.85              | 80                      | IS 5182 ( part VI ) 2006,Reaff:2017                      |
| Carbon Monoxide                           | mg/m <sup>3</sup>                                                                                                                              | 0.48               | 2.0                     | IS 5182 ( part X ) 1999,Reaff: 2014                      |
| Lead                                      | µg/m <sup>3</sup>                                                                                                                              | BDL                | 1                       | IS 5182 (part XXII) 2004,Reaff:2014                      |
| Ozone                                     | µg/m <sup>3</sup>                                                                                                                              | 25.07              | 100                     | IS 5182 (part IX) 1974, Reaff: 2014                      |
| Ammonia                                   | µg/m <sup>3</sup>                                                                                                                              | BDL                | 400                     | APHA 2nd Edition Method No. 401                          |
| Benzene                                   | µg/m <sup>3</sup>                                                                                                                              | BDL                | 5                       | IS 5182 (part XI) 2006, Reaff- 2017                      |
| Benzo (a) Pyrene - Particulate Phase only | ng/m <sup>3</sup>                                                                                                                              | BDL                | 1                       | IS 5182 (Part 12):2004,Reaff: 2014                       |
| Arsenic                                   | ng/m <sup>3</sup>                                                                                                                              | BDL                | 6                       | APHA 2nd Edition Method No. 822                          |
| Nickel                                    | ng/m <sup>3</sup>                                                                                                                              | BDL                | 20                      | APHA 2nd Edition Method No. 822                          |

●BDL: Below Detection Limits.

●Remarks: - Monitoring Results are well within the limits prescribed by CPCB.

For GREEN ENVIRO

*Sm Joshi*

Govt. Analyst



## AMBIENT AIR QUALITY MONITORING ANALYSIS REPORT

### TEST REPORT

Date – 11/05/2021

|                                           |                                                                                                                                               |                    |                        |                                                          |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------------|----------------------------------------------------------|
| Sample/Report No.                         | GE/LAB/AAQ/JSHPL3                                                                                                                             |                    |                        |                                                          |
| Name Of Customer                          | M/s. Joyville Shapoorji Housing Pvt. Ltd.                                                                                                     |                    |                        |                                                          |
| Address Of Customer                       | “Proposed Residential & Commercial Scheme”, S.No.98/1(P) 98/2, 99/1, 99/2(P), 99/3(P), 99/4(P),101/2(P)&101/3 At Vill- Maan, Tal- Mulshi,Pune |                    |                        |                                                          |
| Sample Drawn By                           | Vendor on 04/05/2021                                                                                                                          | Sample Received On | 05/05/2021             |                                                          |
| Start of Analysis                         | 05/05/2021                                                                                                                                    | End Of Analysis    | 07/05/2021             |                                                          |
| Monitoring For                            | Ambient Air Monitoring                                                                                                                        | Sampling Location  | Steel Yard Area        |                                                          |
| Sampling Duration                         | 24 Hrly                                                                                                                                       | Receptor Height    | 2.00 meter from G.L.   |                                                          |
| Ambient Temperature                       | Max- 40.7 <sup>0</sup> C, Min-24.7 <sup>0</sup> C                                                                                             | Relative Humidity  | Max- 31.3%, Min- 22.2% |                                                          |
| Limits                                    | National Ambient Air Quality Standards Vide GSR 826(E)16.11.2009                                                                              |                    |                        |                                                          |
| Parameters                                | Unit                                                                                                                                          | Result             | Limits                 | Method Of Analysis                                       |
| General Parameters                        |                                                                                                                                               |                    |                        |                                                          |
| Particulate matter less than 10 micron    | µg/m <sup>3</sup>                                                                                                                             | 78.41              | 100                    | EPA/625/R-96/010a(Compendium Method IO-2.1): 2017        |
| Particulate matter less than2.5 micron    | µg/m <sup>3</sup>                                                                                                                             | 43.26              | 60                     | USEPA Method Aerosol Science Tech FRM 35(4)339-342: 2017 |
| Sulphur Dioxide                           | µg/m <sup>3</sup>                                                                                                                             | 30.72              | 80                     | IS 5182 ( part II ) 2001,Reaff: 2017                     |
| Oxides of Nitrogen                        | µg/m <sup>3</sup>                                                                                                                             | 38.51              | 80                     | IS 5182 ( part VI ) 2006,Reaff:2017                      |
| Carbon Monoxide                           | mg/m <sup>3</sup>                                                                                                                             | 0.59               | 2.0                    | IS 5182 ( part X ) 1999,Reaff: 2014                      |
| Lead                                      | µg/m <sup>3</sup>                                                                                                                             | BDL                | 1                      | IS 5182 (part XXII) 2004,Reaff:2014                      |
| Ozone                                     | µg/m <sup>3</sup>                                                                                                                             | 31.18              | 100                    | IS 5182 (part IX) 1974, Reaff: 2014                      |
| Ammonia                                   | µg/m <sup>3</sup>                                                                                                                             | BDL                | 400                    | APHA 2nd Edition Method No. 401                          |
| Benzene                                   | µg/m <sup>3</sup>                                                                                                                             | BDL                | 5                      | IS 5182 (part XI) 2006, Reaff- 2017                      |
| Benzo (a) Pyrene - Particulate Phase only | ng/m <sup>3</sup>                                                                                                                             | BDL                | 1                      | IS 5182 (Part 12):2004,Reaff: 2014                       |
| Arsenic                                   | ng/m <sup>3</sup>                                                                                                                             | BDL                | 6                      | APHA 2nd Edition Method No. 822                          |
| Nickel                                    | ng/m <sup>3</sup>                                                                                                                             | BDL                | 20                     | APHA 2nd Edition Method No. 822                          |

●BDL: Below Detection Limits.

●Remarks: - Monitoring Results are well within the limits prescribed by CPCB.

For GREEN ENVIRO

*Sm Joshi*

Govt. Analyst





## AMBIENT AIR QUALITY MONITORING ANALYSIS REPORT

### TEST REPORT

Date – 11/05/2021

|                                           |                                                                                                                                               |                    |                        |                                                          |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------------|----------------------------------------------------------|
| Sample/Report No.                         | GE/LAB/AAQ/JSHPL4                                                                                                                             |                    |                        |                                                          |
| Name Of Customer                          | M/s. Joyville Shapoorji Housing Pvt. Ltd.                                                                                                     |                    |                        |                                                          |
| Address Of Customer                       | “Proposed Residential & Commercial Scheme”, S.No.98/1(P) 98/2, 99/1, 99/2(P), 99/3(P), 99/4(P),101/2(P)&101/3 At Vill- Maan, Tal- Mulshi,Pune |                    |                        |                                                          |
| Sample Drawn By                           | Vendor on 04/05/2021                                                                                                                          | Sample Received On | 05/05/2021             |                                                          |
| Start of Analysis                         | 05/05/2021                                                                                                                                    | End Of Analysis    | 07/05/2021             |                                                          |
| Monitoring For                            | Ambient Air Monitoring                                                                                                                        | Sampling Location  | Vehicle Movement Gate  |                                                          |
| Sampling Duration                         | 24 Hrly                                                                                                                                       | Receptor Height    | 2.00 meter from G.L.   |                                                          |
| Ambient Temperature                       | Max- 40.2 <sup>0</sup> C, Min-24.1 <sup>0</sup> C                                                                                             | Relative Humidity  | Max- 31.9%, Min- 22.8% |                                                          |
| Limits                                    | National Ambient Air Quality Standards Vide GSR 826(E)16.11.2009                                                                              |                    |                        |                                                          |
| Parameters                                | Unit                                                                                                                                          | Result             | Limits                 | Method Of Analysis                                       |
| General Parameters                        |                                                                                                                                               |                    |                        |                                                          |
| Particulate matter less than 10 micron    | µg/m <sup>3</sup>                                                                                                                             | 75.13              | 100                    | EPA/625/R-96/010a(Compendium Method IO-2.1): 2017        |
| Particulate matter less than2.5 micron    | µg/m <sup>3</sup>                                                                                                                             | 41.53              | 60                     | USEPA Method Aerosol Science Tech FRM 35(4)339-342: 2017 |
| Sulphur Dioxide                           | µg/m <sup>3</sup>                                                                                                                             | 27.76              | 80                     | IS 5182 ( part II ) 2001,Reaff: 2017                     |
| Oxides of Nitrogen                        | µg/m <sup>3</sup>                                                                                                                             | 33.82              | 80                     | IS 5182 ( part VI ) 2006,Reaff:2017                      |
| Carbon Monoxide                           | mg/m <sup>3</sup>                                                                                                                             | 0.54               | 2.0                    | IS 5182 ( part X ) 1999,Reaff: 2014                      |
| Lead                                      | µg/m <sup>3</sup>                                                                                                                             | BDL                | 1                      | IS 5182 (part XXII) 2004,Reaff:2014                      |
| Ozone                                     | µg/m <sup>3</sup>                                                                                                                             | 29.19              | 100                    | IS 5182 (part IX) 1974, Reaff: 2014                      |
| Ammonia                                   | µg/m <sup>3</sup>                                                                                                                             | BDL                | 400                    | APHA 2nd Edition Method No. 401                          |
| Benzene                                   | µg/m <sup>3</sup>                                                                                                                             | BDL                | 5                      | IS 5182 (part XI) 2006, Reaff- 2017                      |
| Benzo (a) Pyrene - Particulate Phase only | ng/m <sup>3</sup>                                                                                                                             | BDL                | 1                      | IS 5182 (Part 12):2004,Reaff: 2014                       |
| Arsenic                                   | ng/m <sup>3</sup>                                                                                                                             | BDL                | 6                      | APHA 2nd Edition Method No. 822                          |
| Nickel                                    | ng/m <sup>3</sup>                                                                                                                             | BDL                | 20                     | APHA 2nd Edition Method No. 822                          |

●BDL: Below Detection Limits.

●Remarks: - Monitoring Results are well within the limits prescribed by CPCB.

For GREEN ENVIRO

*Sm Joshi*

Govt. Analyst



## AMBIENT AIR QUALITY MONITORING ANALYSIS REPORT

### TEST REPORT

Date – 11/05/2021

|                                           |                                                                                                                                                |                    |                        |                                                          |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------------|----------------------------------------------------------|
| Sample/Report No.                         | GE/LAB/AAQ/JSHPL5                                                                                                                              |                    |                        |                                                          |
| Name Of Customer                          | M/s. Joyville Shapoorji Housing Pvt. Ltd.                                                                                                      |                    |                        |                                                          |
| Address Of Customer                       | “Proposed Residential & Commercial Scheme”, S.No.98/1(P) 98/2, 99/1, 99/2(P), 99/3(P), 99/4(P),101/2(P)&101/3 At Vill- Maan, Tal- Mulshi, Pune |                    |                        |                                                          |
| Sample Drawn By                           | Vendor on 04/05/2021                                                                                                                           | Sample Received On | 05/05/2021             |                                                          |
| Start of Analysis                         | 05/05/2021                                                                                                                                     | End Of Analysis    | 07/05/2021             |                                                          |
| Monitoring For                            | Ambient Air Monitoring                                                                                                                         | Sampling Location  | Back Side of Site      |                                                          |
| Sampling Duration                         | 24 Hrly                                                                                                                                        | Receptor Height    | 2.00 meter from G.L.   |                                                          |
| Ambient Temperature                       | Max- 40.5 <sup>0</sup> C, Min-24.5 <sup>0</sup> C                                                                                              | Relative Humidity  | Max- 31.6%, Min- 22.4% |                                                          |
| Limits                                    | National Ambient Air Quality Standards Vide GSR 826(E)16.11.2009                                                                               |                    |                        |                                                          |
| Parameters                                | Unit                                                                                                                                           | Result             | Limits                 | Method Of Analysis                                       |
| General Parameters                        |                                                                                                                                                |                    |                        |                                                          |
| Particulate matter less than 10 micron    | µg/m <sup>3</sup>                                                                                                                              | 55.86              | 100                    | EPA/625/R-96/010a(Compendium Method IO-2.1): 2017        |
| Particulate matter less than2.5 micron    | µg/m <sup>3</sup>                                                                                                                              | 26.75              | 60                     | USEPA Method Aerosol Science Tech FRM 35(4)339-342: 2017 |
| Sulphur Dioxide                           | µg/m <sup>3</sup>                                                                                                                              | 17.46              | 80                     | IS 5182 ( part II ) 2001,Reaff: 2017                     |
| Oxides of Nitrogen                        | µg/m <sup>3</sup>                                                                                                                              | 21.82              | 80                     | IS 5182 ( part VI ) 2006,Reaff:2017                      |
| Carbon Monoxide                           | mg/m <sup>3</sup>                                                                                                                              | 0.37               | 2.0                    | IS 5182 ( part X ) 1999,Reaff: 2014                      |
| Lead                                      | µg/m <sup>3</sup>                                                                                                                              | BDL                | 1                      | IS 5182 (part XXII) 2004,Reaff:2014                      |
| Ozone                                     | µg/m <sup>3</sup>                                                                                                                              | 19.50              | 100                    | IS 5182 (part IX) 1974, Reaff: 2014                      |
| Ammonia                                   | µg/m <sup>3</sup>                                                                                                                              | BDL                | 400                    | APHA 2nd Edition Method No. 401                          |
| Benzene                                   | µg/m <sup>3</sup>                                                                                                                              | BDL                | 5                      | IS 5182 (part XI) 2006, Reaff- 2017                      |
| Benzo (a) Pyrene - Particulate Phase only | ng/m <sup>3</sup>                                                                                                                              | BDL                | 1                      | IS 5182 (Part 12):2004,Reaff: 2014                       |
| Arsenic                                   | ng/m <sup>3</sup>                                                                                                                              | BDL                | 6                      | APHA 2nd Edition Method No. 822                          |
| Nickel                                    | ng/m <sup>3</sup>                                                                                                                              | BDL                | 20                     | APHA 2nd Edition Method No. 822                          |

●BDL: Below Detection Limits.

●Remarks: - Monitoring Results are well within the limits prescribed by CPCB.

For GREEN ENVIRO

*Sm Joshi*

Govt. Analyst





## AMBIENT NOISE MONITORING ANALYSIS REPORT

### TEST REPORT

|                     |                                                                                                                                                                 |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sample/Report No.   | GE/LAB/ANM/JSHPL1                                                                                                                                               |
| Name Of Customer    | M/s. Joyville Shapoorji Housing Pvt. Ltd.                                                                                                                       |
| Address Of Customer | "Proposed Residential & Commercial Scheme",<br>S.No.98/1(P) 98/2, 99/1, 99/2(P), 99/3(P), 99/4(P),101/2(P)<br>& 101/3 At Vill - Maan, Tal - Mulshi, Dist - Pune |
| Report Dated        | 11/05/2021                                                                                                                                                      |
| Date Of Sampling    | Vendor on 04/05/2021 & 05/05/2021                                                                                                                               |
| Date Of Analysis    | 04/05/2021 & 05/05/2021                                                                                                                                         |
| Monitoring For      | Ambient Noise Monitoring                                                                                                                                        |
| Sampling Location   | Near Sales Office Area                                                                                                                                          |
| Limits*             | Maharashtra Pollution Control Board has prescribed 55 dB(A)<br>as an upper limit of Noise Level during day time & 45 dB(A)<br>during Night time                 |
| Time Of Sampling    | 1) Day time shall mean from 06:00 A.M. to 10:00 P.M.<br>2) Night time shall mean from 10:00 P.M. to 06:00 A.M                                                   |

### RESULTS OF ANALYSIS

| TIME       | UNIT  | READINGS | MPCB LIMITS |
|------------|-------|----------|-------------|
| 06:00 A.M. | dB(A) | 45.2     | 55          |
| 07:00 A.M. | dB(A) | 43.5     | 55          |
| 08:00 A.M. | dB(A) | 46.9     | 55          |
| 09:00 A.M. | dB(A) | 47.6     | 55          |
| 10:00 A.M. | dB(A) | 50.7     | 55          |
| 11:00 A.M. | dB(A) | 51.3     | 55          |
| 12:00 P.M. | dB(A) | 52.2     | 55          |
| 13:00 P.M. | dB(A) | 53.4     | 55          |



| TIME       | UNIT  | READINGS | MPCB LIMITS |
|------------|-------|----------|-------------|
| 14:00 P.M. | dB(A) | 52.4     | 55          |
| 15:00 P.M. | dB(A) | 51.7     | 55          |
| 16:00 P.M. | dB(A) | 53.8     | 55          |
| 17:00 P.M. | dB(A) | 52.9     | 55          |
| 18:00 P.M. | dB(A) | 54.3     | 55          |
| 19:00 P.M. | dB(A) | 54.8     | 55          |
| 20:00 P.M. | dB(A) | 47.2     | 55          |
| 21:00 P.M. | dB(A) | 42.6     | 45          |
| 22:00 P.M. | dB(A) | 43.1     | 45          |
| 23:00 P.M. | dB(A) | 43.9     | 45          |
| 00:00 A.M. | dB(A) | 42.8     | 45          |
| 01:00 A.M. | dB(A) | 41.7     | 45          |
| 02:00 A.M. | dB(A) | 41.0     | 45          |
| 03:00 A.M. | dB(A) | 40.9     | 45          |
| 04:00 A.M. | dB(A) | 40.2     | 45          |
| 05:00 A.M. | dB(A) | 43.1     | 45          |

**REMARK/OBSERVATIONS:** Ambient Air Quality Standard in respect to Noise

| Area code | Category of Area/Zone | Limits in dB (A) Leq* | Limits in dB (A) Leq* |
|-----------|-----------------------|-----------------------|-----------------------|
|           |                       | Day Time              | Night Time            |
| (A)       | Industrial Area       | 75                    | 70                    |
| (B)       | Commercial Area       | 65                    | 55                    |
| (C)       | Residential Area      | 55                    | 45                    |
| (D)       | Silence Zone          | 50                    | 40                    |

1. Silence Zone is defined as an area comprising not less than 100 meters around hospitals, educational institute and courts. The silence zones are zones which are declared as such by the competent authority.
2. Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.

\*dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.

For **GREEN ENVIRO**

*Sm Joshi*

Govt. Analyst



## AMBIENT NOISE MONITORING ANALYSIS REPORT

### TEST REPORT

|                     |                                                                                                                                                                 |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sample/Report No.   | GE/LAB/ANM/JSHPL2                                                                                                                                               |
| Name Of Customer    | M/s. Joyville Shapoorji Housing Pvt. Ltd.                                                                                                                       |
| Address Of Customer | "Proposed Residential & Commercial Scheme",<br>S.No.98/1(P) 98/2, 99/1, 99/2(P), 99/3(P), 99/4(P),101/2(P)<br>& 101/3 At Vill - Maan, Tal - Mulshi, Dist - Pune |
| Report Dated        | 11/05/2021                                                                                                                                                      |
| Date Of Sampling    | Vendor on 04/05/2021 & 05/05/2021                                                                                                                               |
| Date Of Analysis    | 04/05/2021 & 05/05/2021                                                                                                                                         |
| Monitoring For      | Ambient Noise Monitoring                                                                                                                                        |
| Sampling Location   | Near Site Safety Office                                                                                                                                         |
| Limits*             | Maharashtra Pollution Control Board has prescribed 55 dB(A)<br>as an upper limit of Noise Level during day time & 45 dB(A)<br>during Night time                 |
| Time Of Sampling    | 1) Day time shall mean from 06:00 A.M. to 10:00 P.M.<br>2) Night time shall mean from 10:00 P.M. to 06:00 A.M                                                   |

### RESULTS OF ANALYSIS

| TIME       | UNIT  | READINGS | MPCB LIMITS |
|------------|-------|----------|-------------|
| 06:00 A.M. | dB(A) | 46.4     | 55          |
| 07:00 A.M. | dB(A) | 44.1     | 55          |
| 08:00 A.M. | dB(A) | 48.6     | 55          |
| 09:00 A.M. | dB(A) | 47.9     | 55          |
| 10:00 A.M. | dB(A) | 49.8     | 55          |
| 11:00 A.M. | dB(A) | 50.7     | 55          |
| 12:00 P.M. | dB(A) | 51.5     | 55          |
| 13:00 P.M. | dB(A) | 53.2     | 55          |



| TIME       | UNIT  | READINGS | MPCB LIMITS |
|------------|-------|----------|-------------|
| 14:00 P.M. | dB(A) | 52.1     | 55          |
| 15:00 P.M. | dB(A) | 51.3     | 55          |
| 16:00 P.M. | dB(A) | 53.8     | 55          |
| 17:00 P.M. | dB(A) | 51.7     | 55          |
| 18:00 P.M. | dB(A) | 52.6     | 55          |
| 19:00 P.M. | dB(A) | 53.4     | 55          |
| 20:00 P.M. | dB(A) | 50.3     | 55          |
| 21:00 P.M. | dB(A) | 49.4     | 55          |
| 22:00 P.M. | dB(A) | 43.9     | 45          |
| 23:00 P.M. | dB(A) | 42.7     | 45          |
| 00:00 A.M. | dB(A) | 41.8     | 45          |
| 01:00 A.M. | dB(A) | 43.4     | 45          |
| 02:00 A.M. | dB(A) | 42.5     | 45          |
| 03:00 A.M. | dB(A) | 40.1     | 45          |
| 04:00 A.M. | dB(A) | 41.7     | 45          |
| 05:00 A.M. | dB(A) | 40.0     | 45          |

**REMARK/OBSERVATIONS:** Ambient Air Quality Standard in respect to Noise

| Area code | Category of Area/Zone | Limits in dB (A) Leq* | Limits in dB (A) Leq* |
|-----------|-----------------------|-----------------------|-----------------------|
|           |                       | Day Time              | Night Time            |
| (A)       | Industrial Area       | 75                    | 70                    |
| (B)       | Commercial Area       | 65                    | 55                    |
| (C)       | Residential Area      | 55                    | 45                    |
| (D)       | Silence Zone          | 50                    | 40                    |

1. Silence Zone is defined as an area comprising not less than 100 meters around hospitals, educational institute and courts. The silence zones are zones which are declared as such by the competent authority.
2. Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.

\*dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.

For **GREEN ENVIRO**

*Sm Joshi*

Govt. Analyst





## AMBIENT NOISE MONITORING ANALYSIS REPORT

### TEST REPORT

|                     |                                                                                                                                                                 |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sample/Report No.   | GE/LAB/ANM/JSHPL3                                                                                                                                               |
| Name Of Customer    | M/s. Joyville Shapoorji Housing Pvt. Ltd.                                                                                                                       |
| Address Of Customer | "Proposed Residential & Commercial Scheme",<br>S.No.98/1(P) 98/2, 99/1, 99/2(P), 99/3(P), 99/4(P),101/2(P)<br>& 101/3 At Vill - Maan, Tal - Mulshi, Dist - Pune |
| Report Dated        | 11/05/2021                                                                                                                                                      |
| Date Of Sampling    | Vendor on 04/05/2021 & 05/05/2021                                                                                                                               |
| Date Of Analysis    | 04/05/2021 & 05/05/2021                                                                                                                                         |
| Monitoring For      | Ambient Noise Monitoring                                                                                                                                        |
| Sampling Location   | Steel Yard Area                                                                                                                                                 |
| Limits*             | Maharashtra Pollution Control Board has prescribed 55 dB(A)<br>as an upper limit of Noise Level during day time & 45 dB(A)<br>during Night time                 |
| Time Of Sampling    | 1) Day time shall mean from 06:00 A.M. to 10:00 P.M.<br>2) Night time shall mean from 10:00 P.M. to 06:00 A.M                                                   |

### RESULTS OF ANALYSIS

| TIME       | UNIT  | READINGS | MPCB LIMITS |
|------------|-------|----------|-------------|
| 06:00 A.M. | dB(A) | 42.5     | 55          |
| 07:00 A.M. | dB(A) | 43.1     | 55          |
| 08:00 A.M. | dB(A) | 45.9     | 55          |
| 09:00 A.M. | dB(A) | 48.6     | 55          |
| 10:00 A.M. | dB(A) | 47.1     | 55          |
| 11:00 A.M. | dB(A) | 49.2     | 55          |
| 12:00 P.M. | dB(A) | 50.4     | 55          |
| 13:00 P.M. | dB(A) | 53.5     | 55          |



| TIME       | UNIT  | READINGS | MPCB LIMITS |
|------------|-------|----------|-------------|
| 14:00 P.M. | dB(A) | 54.4     | 55          |
| 15:00 P.M. | dB(A) | 51.6     | 55          |
| 16:00 P.M. | dB(A) | 54.1     | 55          |
| 17:00 P.M. | dB(A) | 53.8     | 55          |
| 18:00 P.M. | dB(A) | 52.2     | 55          |
| 19:00 P.M. | dB(A) | 51.3     | 55          |
| 20:00 P.M. | dB(A) | 50.5     | 55          |
| 21:00 P.M. | dB(A) | 51.8     | 55          |
| 22:00 P.M. | dB(A) | 43.6     | 45          |
| 23:00 P.M. | dB(A) | 44.9     | 45          |
| 00:00 A.M. | dB(A) | 42.8     | 45          |
| 01:00 A.M. | dB(A) | 44.6     | 45          |
| 02:00 A.M. | dB(A) | 43.4     | 45          |
| 03:00 A.M. | dB(A) | 40.1     | 45          |
| 04:00 A.M. | dB(A) | 41.8     | 45          |
| 05:00 A.M. | dB(A) | 40.6     | 45          |

**REMARK/OBSERVATIONS:** Ambient Air Quality Standard in respect to Noise

| Area code | Category of Area/Zone | Limits in dB (A) Leq* | Limits in dB (A) Leq* |
|-----------|-----------------------|-----------------------|-----------------------|
|           |                       | Day Time              | Night Time            |
| (A)       | Industrial Area       | 75                    | 70                    |
| (B)       | Commercial Area       | 65                    | 55                    |
| (C)       | Residential Area      | 55                    | 45                    |
| (D)       | Silence Zone          | 50                    | 40                    |

1. Silence Zone is defined as an area comprising not less than 100 meters around hospitals, educational institute and courts. The silence zones are zones which are declared as such by the competent authority.
2. Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.

\*dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.

For **GREEN ENVIRO**

*Sm Joshi*

Govt. Analyst





## AMBIENT NOISE MONITORING ANALYSIS REPORT

### TEST REPORT

|                     |                                                                                                                                                                 |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sample/Report No.   | GE/LAB/ANM/JSHPL4                                                                                                                                               |
| Name Of Customer    | M/s. Joyville Shapoorji Housing Pvt. Ltd.                                                                                                                       |
| Address Of Customer | "Proposed Residential & Commercial Scheme",<br>S.No.98/1(P) 98/2, 99/1, 99/2(P), 99/3(P), 99/4(P),101/2(P)<br>& 101/3 At Vill - Maan, Tal - Mulshi, Dist - Pune |
| Report Dated        | 11/05/2021                                                                                                                                                      |
| Date Of Sampling    | Vendor on 04/05/2021 & 05/05/2021                                                                                                                               |
| Date Of Analysis    | 04/05/2021 & 05/05/2021                                                                                                                                         |
| Monitoring For      | Ambient Noise Monitoring                                                                                                                                        |
| Sampling Location   | Vehicle Movement Gate                                                                                                                                           |
| Limits*             | Maharashtra Pollution Control Board has prescribed 55 dB(A)<br>as an upper limit of Noise Level during day time & 45 dB(A)<br>during Night time                 |
| Time Of Sampling    | 1) Day time shall mean from 06:00 A.M. to 10:00 P.M.<br>2) Night time shall mean from 10:00 P.M. to 06:00 A.M                                                   |

### RESULTS OF ANALYSIS

| TIME       | UNIT  | READINGS | MPCB LIMITS |
|------------|-------|----------|-------------|
| 06:00 A.M. | dB(A) | 43.3     | 55          |
| 07:00 A.M. | dB(A) | 42.9     | 55          |
| 08:00 A.M. | dB(A) | 44.7     | 55          |
| 09:00 A.M. | dB(A) | 45.6     | 55          |
| 10:00 A.M. | dB(A) | 46.1     | 55          |
| 11:00 A.M. | dB(A) | 48.5     | 55          |
| 12:00 P.M. | dB(A) | 49.2     | 55          |
| 13:00 P.M. | dB(A) | 50.3     | 55          |



| TIME       | UNIT  | READINGS | MPCB LIMITS |
|------------|-------|----------|-------------|
| 14:00 P.M. | dB(A) | 54.8     | 55          |
| 15:00 P.M. | dB(A) | 53.5     | 55          |
| 16:00 P.M. | dB(A) | 52.8     | 55          |
| 17:00 P.M. | dB(A) | 54.1     | 55          |
| 18:00 P.M. | dB(A) | 52.5     | 55          |
| 19:00 P.M. | dB(A) | 53.1     | 55          |
| 20:00 P.M. | dB(A) | 50.4     | 55          |
| 21:00 P.M. | dB(A) | 51.3     | 55          |
| 22:00 P.M. | dB(A) | 43.2     | 45          |
| 23:00 P.M. | dB(A) | 41.8     | 45          |
| 00:00 A.M. | dB(A) | 44.5     | 45          |
| 01:00 A.M. | dB(A) | 42.4     | 45          |
| 02:00 A.M. | dB(A) | 43.6     | 45          |
| 03:00 A.M. | dB(A) | 40.8     | 45          |
| 04:00 A.M. | dB(A) | 41.2     | 45          |
| 05:00 A.M. | dB(A) | 40.1     | 45          |

**REMARK/OBSERVATIONS:** Ambient Air Quality Standard in respect to Noise

| Area code | Category of Area/Zone | Limits in dB (A) Leq* | Limits in dB (A) Leq* |
|-----------|-----------------------|-----------------------|-----------------------|
|           |                       | Day Time              | Night Time            |
| (A)       | Industrial Area       | 75                    | 70                    |
| (B)       | Commercial Area       | 65                    | 55                    |
| (C)       | Residential Area      | 55                    | 45                    |
| (D)       | Silence Zone          | 50                    | 40                    |

1. Silence Zone is defined as an area comprising not less than 100 meters around hospitals, educational institute and courts. The silence zones are zones which are declared as such by the competent authority.
2. Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.

\*dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.

For **GREEN ENVIRO**

*Sm Joshi*

Govt. Analyst



## AMBIENT NOISE MONITORING ANALYSIS REPORT

### TEST REPORT

|                     |                                                                                                                                                                 |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sample/Report No.   | GE/LAB/ANM/JSHPL5                                                                                                                                               |
| Name Of Customer    | M/s. Joyville Shapoorji Housing Pvt. Ltd.                                                                                                                       |
| Address Of Customer | "Proposed Residential & Commercial Scheme",<br>S.No.98/1(P) 98/2, 99/1, 99/2(P), 99/3(P), 99/4(P),101/2(P)<br>& 101/3 At Vill - Maan, Tal - Mulshi, Dist - Pune |
| Report Dated        | 11/05/2021                                                                                                                                                      |
| Date Of Sampling    | Vendor on 04/05/2021 & 05/05/2021                                                                                                                               |
| Date Of Analysis    | 04/05/2021 & 05/05/2021                                                                                                                                         |
| Monitoring For      | Ambient Noise Monitoring                                                                                                                                        |
| Sampling Location   | Back Side of Site                                                                                                                                               |
| Limits*             | Maharashtra Pollution Control Board has prescribed 55 dB(A)<br>as an upper limit of Noise Level during day time & 45 dB(A)<br>during Night time                 |
| Time Of Sampling    | 1) Day time shall mean from 06:00 A.M. to 10:00 P.M.<br>2) Night time shall mean from 10:00 P.M. to 06:00 A.M                                                   |

### RESULTS OF ANALYSIS

| TIME       | UNIT  | READINGS | MPCB LIMITS |
|------------|-------|----------|-------------|
| 06:00 A.M. | dB(A) | 40.2     | 55          |
| 07:00 A.M. | dB(A) | 41.9     | 55          |
| 08:00 A.M. | dB(A) | 43.8     | 55          |
| 09:00 A.M. | dB(A) | 42.6     | 55          |
| 10:00 A.M. | dB(A) | 45.7     | 55          |
| 11:00 A.M. | dB(A) | 46.5     | 55          |
| 12:00 P.M. | dB(A) | 47.1     | 55          |
| 13:00 P.M. | dB(A) | 50.3     | 55          |



| TIME       | UNIT  | READINGS | MPCB LIMITS |
|------------|-------|----------|-------------|
| 14:00 P.M. | dB(A) | 53.6     | 55          |
| 15:00 P.M. | dB(A) | 52.1     | 55          |
| 16:00 P.M. | dB(A) | 54.4     | 55          |
| 17:00 P.M. | dB(A) | 53.2     | 55          |
| 18:00 P.M. | dB(A) | 54.9     | 55          |
| 19:00 P.M. | dB(A) | 51.3     | 55          |
| 20:00 P.M. | dB(A) | 54.6     | 55          |
| 21:00 P.M. | dB(A) | 53.0     | 55          |
| 22:00 P.M. | dB(A) | 43.6     | 45          |
| 23:00 P.M. | dB(A) | 42.9     | 45          |
| 00:00 A.M. | dB(A) | 44.5     | 45          |
| 01:00 A.M. | dB(A) | 41.1     | 45          |
| 02:00 A.M. | dB(A) | 42.2     | 45          |
| 03:00 A.M. | dB(A) | 40.5     | 45          |
| 04:00 A.M. | dB(A) | 41.6     | 45          |
| 05:00 A.M. | dB(A) | 43.4     | 45          |

**REMARK/OBSERVATIONS:** Ambient Air Quality Standard in respect to Noise

| Area code | Category of Area/Zone | Limits in dB (A) Leq* | Limits in dB (A) Leq* |
|-----------|-----------------------|-----------------------|-----------------------|
|           |                       | Day Time              | Night Time            |
| (A)       | Industrial Area       | 75                    | 70                    |
| (B)       | Commercial Area       | 65                    | 55                    |
| (C)       | Residential Area      | 55                    | 45                    |
| (D)       | Silence Zone          | 50                    | 40                    |

1. Silence Zone is defined as an area comprising not less than 100 meters around hospitals, educational institute and courts. The silence zones are zones which are declared as such by the competent authority.
2. Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.

\*dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.

For **GREEN ENVIRO**

*Sm Joshi*

Govt. Analyst





## SOURCE EMISSION MONITORING ANALYSIS REPORT

|                  |                                                                                                                                                                 |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CLIENT'S NAME    | M/s. Joyville Shapoorji Housing Pvt. Ltd.                                                                                                                       |
| CLIENT'S ADDRESS | "Proposed Residential & Commercial Scheme",<br>S.No.98/1(P) 98/2, 99/1, 99/2(P), 99/3(P), 99/4(P),<br>101/2(P) & 101/3, At Vill- Maan, Tal- Mulshi, Dist - Pune |
| REPORT NO.       | GE/LAB/A/JSHPL1                                                                                                                                                 |
| DATED            | 11/05/2021                                                                                                                                                      |
| LAB REFERENCE NO | GE/LAB/A/JSHPL01                                                                                                                                                |
| DATE OF SAMPLING | 04/05/2021                                                                                                                                                      |
| DATE OF ANALYSIS | 05/05/2021                                                                                                                                                      |

### RESULTS OF ANALYSIS

| Test Description         | Unit                | Result                               | Limits | Method Of Analysis        |
|--------------------------|---------------------|--------------------------------------|--------|---------------------------|
| Nature of sample         | ----                | Stack Monitoring<br>(DG Set 320 KVA) |        |                           |
| Duration Of Sampling     | Min                 | 20                                   |        |                           |
| Material Of Stack        | ----                | MS                                   |        |                           |
| Stack Height From G.L.   | Mtr                 | 3.5                                  |        |                           |
| Shape Of Stack           | ----                | Round                                |        |                           |
| Flue Gas Temperature     | Deg C               | 61                                   |        |                           |
| Average Velocity         | M/Sec               | 6.27                                 |        |                           |
| Fuel Consumption         | ----                | HSD                                  |        |                           |
| Fuel Consumption         | Lit/Hr              | 15                                   |        |                           |
| Gas Volume               | NM <sup>3</sup> /Hr | 613.20                               |        |                           |
| Diameter                 | (M)                 | 0.17                                 |        |                           |
| Cross Sectional Area     | (M <sup>2</sup> )   | 0.0303                               |        |                           |
| Total Particulate Matter | Mg/NM <sup>3</sup>  | 62.79                                | 150    | IS11255 (part 1)1985,2014 |
| Sulphur Dioxide          | Kg/Day              | 6.50                                 | N.S.   | IS11255 (part 2)1985,2014 |

N.S. - Not Specified

**REMARK/OBSERVATIONS:** Monitoring results are well within the limits prescribed by MPCB.

For **GREEN ENVIRO**

*Sm Joshi*

Govt. Analyst





## DG NOISE MONITORING ANALYSIS REPORT

### TEST REPORT

|                     |                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sample/Report No.   | GE/LAB/DGNM/JSHP1                                                                                                                                                                                                                                                                                                                                                                                     |
| Name Of Customer    | M/s. Joyville Shapoorji Housing Pvt. Ltd.                                                                                                                                                                                                                                                                                                                                                             |
| Address Of Customer | "Proposed Residential & Commercial Scheme",<br>S.No.98/1(P) 98/2, 99/1, 99/2(P), 99/3(P), 99/4(P),<br>101/2(P) & 101/3 At Vill- Maan, Tal- Mulshi, Pune                                                                                                                                                                                                                                               |
| Report Dated        | 11/05/2021                                                                                                                                                                                                                                                                                                                                                                                            |
| Date Of Sampling    | Vendor on 04/05/2021                                                                                                                                                                                                                                                                                                                                                                                  |
| Date Of Analysis    | 04/05/2021                                                                                                                                                                                                                                                                                                                                                                                            |
| Monitoring For      | DG Noise Monitoring                                                                                                                                                                                                                                                                                                                                                                                   |
| Sampling Location   | <b>DG Set - 320 KVA</b>                                                                                                                                                                                                                                                                                                                                                                               |
| Limits*             | 1) Maharashtra Pollution Control Board has prescribed in consent, acoustic enclosure / acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standard, whichever is on higher side.<br>2) Maharashtra Pollution Control Board has prescribed 75 dB(A) as an upper limit of Noise Level during day time & 70 dB(A) during Night time |
| Time Of Sampling    | 1) Day time shall mean from 06:00 A.M. to 10:00 P.M.<br>2) Night time shall mean from 10:00 P.M. to 06:00 A.M                                                                                                                                                                                                                                                                                         |

### RESULTS OF ANALYSIS

| Description             | Test Location                                                    | Unit  | READINGS               |                          | Insertion Loss $\geq 25$ Db |                          |
|-------------------------|------------------------------------------------------------------|-------|------------------------|--------------------------|-----------------------------|--------------------------|
|                         |                                                                  |       | 14:00 Hrs.<br>Day Time | 22:10 Hrs.<br>Night Time | 14:00 Hrs.<br>Day Time      | 22:10 Hrs.<br>Night Time |
| <b>DG Set (320 KVA)</b> | DG Set #320KVA<br>Inside Acoustic Enclosure                      | dB(A) | 99.2                   | 94.9                     | 26.9                        | 27.7                     |
|                         | DG Set #320KVA<br>Outside Acoustic Enclosure from 0.5 meter away | dB(A) | 72.3                   | 67.2                     |                             |                          |

**REMARK/OBSERVATIONS:** All above Results are within MPCB Limits.

For **GREEN ENVIRO**

*Sm Joshi*

Govt. Analyst



## DRINKING WATER QUALITY MONITORING ANALYSIS REPORT

|                                    |                                                                                                                                                       |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CLIENT'S NAME</b>               | M/s. Joyville Shapoorji Housing Pvt. Ltd.                                                                                                             |
| <b>CLIENT'S ADDRESS</b>            | "Proposed Residential & Commercial Scheme",<br>S.No.98/1(P) 98/2, 99/1, 99/2(P), 99/3(P), 99/4(P),<br>101/2(P)&101/3 At Vill- Maan, Tal- Mulshi, Pune |
| Report No: - GE/LAB/W/JSHPL01      | Dated:- 11/05/2021                                                                                                                                    |
| Lab Reference No: GE/LAB/W/JSHPL01 | Date Of Sampling: - 04/05/2021                                                                                                                        |
| Date Of Analysis: - 05/05/2021     | Details Of Sample : Drinking Water Sample -<br>Office Drinking Water                                                                                  |
| Sample Collected By – Green Enviro | Sample Container – Sterilized Bottle                                                                                                                  |

### RESULTS OF ANALYSIS

| Parameter              | Unit   | Result    | Standard :<br>(IS 10500:2012) | Method Of Analysis                           |
|------------------------|--------|-----------|-------------------------------|----------------------------------------------|
| pH                     | Value  | 7.18      | 6.5 - 8.5                     | IS 3025 (Part II) 1983,<br>Reaff: 2017       |
| Total Dissolved Solids | mg/lit | 47.94     | 500                           | IS 3025 (Part XVI) 1984,<br>Reaff: 2017      |
| Total Suspended Solids | mg/lit | 05.02     | Not Specified                 | IS 3025 (Part XVII)<br>1984, Reaff- 2017     |
| Colour                 | ----   | Colorless | Colorless                     | IS 3025 (Part IV ) 1983                      |
| Odour                  | ----   | Odorless  | Odorless                      | APHA 23 <sup>rd</sup> Edition(Part<br>2150B) |
| Turbidity              | NTU    | < 0.28    | < 5                           | IS 3025 (Part X) 1984,<br>Reaff: 2017        |
| Total Hardness         | mg/lit | 25.95     | 200                           | IS 3025 (Part XXI) 2009,<br>Reaff: 2019      |
| Calcium Hardness       | mg/lit | 14.42     | Not Specified                 | IS 3025 (Part 40) 1991,<br>Reaff: 2019       |
| Magnesium Hardness     | mg/lit | 11.53     | Not Specified                 | IS 3025 (Part 46) 1994,<br>Reaff: 2019       |
| Chloride               | mg/lit | 10.68     | 250                           | IS 3025 (Part 32) 1998,<br>Reaff: 2019       |



## DRINKING WATER QUALITY MONITORING ANALYSIS REPORT

| Parameter                    | Unit   | Result | Standard:<br>(IS10500:2012) | Method Of Analysis                                                        |
|------------------------------|--------|--------|-----------------------------|---------------------------------------------------------------------------|
| Sulphate                     | mg/lit | 08.57  | 200                         | IS 3025 (Part 24) 1986, Reaff: 2019                                       |
| Total alkalinity             | mg/lit | 62.15  | 200                         | IS 3025 (Part 23) 1986, Reaff: 2019                                       |
| Fluoride                     | mg/lit | Absent | 1.0                         | IS 3025 (Part 60) 2008                                                    |
| Nitrates                     | mg/lit | Absent | 45                          | APHA 23 <sup>rd</sup> Edition, (Part 4500-NO <sub>3</sub> <sup>-</sup> B) |
| Cyanide                      | mg/lit | Absent | 0.05                        | APHA 23 <sup>rd</sup> Edition, (Part 4500-CN <sup>-</sup> C)              |
| Residual free chlorine       | mg/lit | Absent | 0.2                         | APHA 23 <sup>rd</sup> Edition, (Part 4500-Cl B)                           |
| Copper                       | mg/lit | Absent | Max 0.05                    | IS:3025 (Part 42) 1992, Reaff: 2019                                       |
| Mercury                      | mg/lit | Absent | Max 0.001                   | APHA 23 <sup>rd</sup> Edition, (Part 3500Hg)                              |
| Cadmium                      | mg/lit | Absent | Max 0.003                   | APHA 23 <sup>rd</sup> Edition, (Part 3500-Cd)                             |
| Lead                         | mg/lit | Absent | Max 0.01                    | IS 3025 (Part 47) 1994, Reaff: 2019                                       |
| Zinc                         | mg/lit | Absent | 5.0                         | IS 3025 (Part 49) 1994, Reaff: 2019                                       |
| Coliform Organism            | mg/lit | Absent | Not Specified               | IS: 1622 – 1981                                                           |
| Nickel                       | mg/lit | Absent | Max 0.02                    | IS 3025 (Part 54) 2003, Reaff: 2019,                                      |
| Polychlorinated biphenyls    | mg/lit | Absent | 0.0005                      | APHA 23 <sup>rd</sup> Edition, (Part 6431 B)                              |
| Total chromium               | mg/lit | Absent | Max 0.05                    | APHA 23 <sup>rd</sup> Edition, (Part 3111B)                               |
| Total arsenic                | mg/lit | Absent | Max 0.01                    | APHA 23 <sup>rd</sup> Edition, (Part 3500-As B)                           |
| Aluminium                    | mg/lit | Absent | Max 0.03                    | APHA 23 <sup>rd</sup> Edition, (Part 3111 D)                              |
| Ammonia(as total ammonia- N) | mg/lit | Absent | Not Specified               | APHA 23 <sup>rd</sup> Edition, (Part 4500-NH 3C)                          |
| Boron                        | mg/lit | Absent | Max 0.5                     | APHA 23 <sup>rd</sup> Edition, (Part 4500-B C)                            |
| Silver                       | mg/lit | Absent | 0.1                         | APHA 16 <sup>th</sup> Edition, (Part 324B)                                |
| Sulphide                     | mg/lit | Absent | 0.05                        | APHA 23 <sup>rd</sup> Edition, (part 4500-D)                              |





## DRINKING WATER QUALITY MONITORING ANALYSIS REPORT

| Parameter               | Unit   | Result | Standard:<br>(IS10500:2012) | Method Of Analysis                                             |
|-------------------------|--------|--------|-----------------------------|----------------------------------------------------------------|
| Mineral oil             | mg/lit | Nil    | 0.05                        | IS 3025 (Part 39)                                              |
| Anionic detergents      | mg/lit | Nil    | Max 0.2                     | APHA 23 <sup>rd</sup> Edition, (Part 5540 C)                   |
| Chloramines             | mg/lit | Nil    | Max 4.0                     | APHA 23 <sup>rd</sup> Edition, (Part 4500-Cl G)                |
| Selenium                | mg/lit | Nil    | Max 0.01                    | APHA 23 <sup>rd</sup> Edition, (Part 3500-Se C)                |
| DDT                     | µg/lit | Nil    | 1.0                         | APHA 23 <sup>rd</sup> Edition, (Part 6630C)                    |
| 2,4 D                   | µg/lit | Nil    | 3.0                         | APHA 23 <sup>rd</sup> Edition, (Part 6630C)                    |
| Gamma-HCH<br>(Lindane)  | µg/lit | Nil    | 2.0                         | APHA 23 <sup>rd</sup> Edition, (Part 6630C)                    |
| Endosulfan              | µg/lit | Nil    | 0.4                         | APHA 23 <sup>rd</sup> Edition, (Part 6630C)                    |
| Atrazine                | µg/lit | Nil    | 2.0                         | APHA 23 <sup>rd</sup> Edition, (Part 6630C)                    |
| Reactive Silica         | ppm    | Nil    | 0.02                        | APHA 23 <sup>rd</sup> Edition, (Part 4500- SiO <sub>2</sub> D) |
| Sodium                  | mg/lit | BDL    | Not Specified               | APHA 23 <sup>rd</sup> Edition, (Part 3500 Na B)                |
| Potassium               | mg/lit | BDL    | Not Specified               | APHA 23 <sup>rd</sup> Edition, (Part 3500-K B)                 |
| Phosphorous             | mg/lit | BDL    | Not Specified               | IS 3025 (Part 31) 1988, Reaff – 2019                           |
| Iron                    | mg/lit | Nil    | 0.3                         | IS 3025 (Part 53) 2003, Reaff – 2019                           |
| Most Probable<br>Number | /100ml | Absent | 0/100ml                     | IS: 1622 – 1981, Multiple tube<br>technique                    |
| E. coli                 | /100ml | Absent | 0-1/100ml                   | IS: 5887 -1 & IS15186:2002 Multiple<br>tube technique          |
| Total Coliform          | /100ml | Absent | 0-1/100ml                   | IS:1622-1981, Multiple tube technique                          |
| Total Viable Count      | /100ml | Absent | 0-1/100ml                   | IS: 5402 : 2012                                                |
| Fecal                   | /100ml | Absent | 0-1/100ml                   | APHA 23 <sup>rd</sup> Edition Part 9230- B, Page<br>9-118      |

• BDL: - Below Detection Limits

For **GREEN ENVIRO**

*Sm Joshi*

Govt. Analyst



## DRINKING WATER QUALITY MONITORING ANALYSIS REPORT

|                                    |                                                                                                                                                       |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CLIENT'S NAME</b>               | M/s. Joyville Shapoorji Housing Pvt. Ltd.                                                                                                             |
| <b>CLIENT'S ADDRESS</b>            | "Proposed Residential & Commercial Scheme",<br>S.No.98/1(P) 98/2, 99/1, 99/2(P), 99/3(P), 99/4(P),<br>101/2(P)&101/3 At Vill- Maan, Tal- Mulshi, Pune |
| Report No: - GE/LAB/W/JSHPL02      | Dated:- 11/05/2021                                                                                                                                    |
| Lab Reference No:GE/LAB/W/JSHPL02  | Date Of Sampling: - 04/05/2021                                                                                                                        |
| Date Of Analysis: - 05/05/2021     | Details Of Sample : Drinking Water Sample -<br>Labour Colony R O Water                                                                                |
| Sample Collected By – Green Enviro | Sample Container – Sterilized Bottle                                                                                                                  |

### RESULTS OF ANALYSIS

| Parameter              | Unit   | Result    | Standard :<br>(IS 10500:2012) | Method Of Analysis                           |
|------------------------|--------|-----------|-------------------------------|----------------------------------------------|
| pH                     | Value  | 7.10      | 6.5 - 8.5                     | IS 3025 (Part II) 1983,<br>Reaff: 2017       |
| Total Dissolved Solids | mg/lit | 44.32     | 500                           | IS 3025 (Part XVI) 1984,<br>Reaff: 2017      |
| Total Suspended Solids | mg/lit | 04.61     | Not Specified                 | IS 3025 (Part XVII)<br>1984, Reaff- 2017     |
| Colour                 | ----   | Colorless | Colorless                     | IS 3025 (Part IV ) 1983                      |
| Odour                  | ----   | Odorless  | Odorless                      | APHA 23 <sup>rd</sup> Edition(Part<br>2150B) |
| Turbidity              | NTU    | < 0.23    | < 5                           | IS 3025 (Part X) 1984,<br>Reaff: 2017        |
| Total Hardness         | mg/lit | 22.98     | 200                           | IS 3025 (Part XXI) 2009,<br>Reaff: 2019      |
| Calcium Hardness       | mg/lit | 13.81     | Not Specified                 | IS 3025 (Part 40) 1991,<br>Reaff: 2019       |
| Magnesium Hardness     | mg/lit | 09.17     | Not Specified                 | IS 3025 (Part 46) 1994,<br>Reaff: 2019       |
| Chloride               | mg/lit | 08.46     | 250                           | IS 3025 (Part 32) 1998,<br>Reaff: 2019       |





## DRINKING WATER QUALITY MONITORING ANALYSIS REPORT

| Parameter                    | Unit   | Result | Standard:<br>(IS10500:2012) | Method Of Analysis                                                        |
|------------------------------|--------|--------|-----------------------------|---------------------------------------------------------------------------|
| Sulphate                     | mg/lit | 06.24  | 200                         | IS 3025 (Part 24) 1986, Reaff: 2019                                       |
| Total alkalinity             | mg/lit | 54.69  | 200                         | IS 3025 (Part 23) 1986, Reaff: 2019                                       |
| Fluoride                     | mg/lit | Absent | 1.0                         | IS 3025 (Part 60) 2008                                                    |
| Nitrates                     | mg/lit | Absent | 45                          | APHA 23 <sup>rd</sup> Edition, (Part 4500-NO <sub>3</sub> <sup>-</sup> B) |
| Cyanide                      | mg/lit | Absent | 0.05                        | APHA 23 <sup>rd</sup> Edition, (Part 4500-CN <sup>-</sup> C)              |
| Residual free chlorine       | mg/lit | Absent | 0.2                         | APHA 23 <sup>rd</sup> Edition, (Part 4500-Cl B)                           |
| Copper                       | mg/lit | Absent | Max 0.05                    | IS:3025 (Part 42) 1992, Reaff: 2019                                       |
| Mercury                      | mg/lit | Absent | Max 0.001                   | APHA 23 <sup>rd</sup> Edition, (Part 3500Hg)                              |
| Cadmium                      | mg/lit | Absent | Max 0.003                   | APHA 23 <sup>rd</sup> Edition, (Part 3500-Cd)                             |
| Lead                         | mg/lit | Absent | Max 0.01                    | IS 3025 (Part 47) 1994, Reaff: 2019                                       |
| Zinc                         | mg/lit | Absent | 5.0                         | IS 3025 (Part 49) 1994, Reaff: 2019                                       |
| Coliform Organism            | mg/lit | Absent | Not Specified               | IS: 1622 – 1981                                                           |
| Nickel                       | mg/lit | Absent | Max 0.02                    | IS 3025 (Part 54) 2003, Reaff: 2019,                                      |
| Polychlorinated biphenyls    | mg/lit | Absent | 0.0005                      | APHA 23 <sup>rd</sup> Edition, (Part 6431 B)                              |
| Total chromium               | mg/lit | Absent | Max 0.05                    | APHA 23 <sup>rd</sup> Edition, (Part 3111B)                               |
| Total arsenic                | mg/lit | Absent | Max 0.01                    | APHA 23 <sup>rd</sup> Edition, (Part 3500-As B)                           |
| Aluminium                    | mg/lit | Absent | Max 0.03                    | APHA 23 <sup>rd</sup> Edition, (Part 3111 D)                              |
| Ammonia(as total ammonia- N) | mg/lit | Absent | Not Specified               | APHA 23 <sup>rd</sup> Edition, (Part 4500-NH 3C)                          |
| Boron                        | mg/lit | Absent | Max 0.5                     | APHA 23 <sup>rd</sup> Edition, (Part 4500-B C)                            |
| Silver                       | mg/lit | Absent | 0.1                         | APHA 16 <sup>th</sup> Edition, (Part 324B)                                |
| Sulphide                     | mg/lit | Absent | 0.05                        | APHA 23 <sup>rd</sup> Edition, (part 4500-D)                              |



## DRINKING WATER QUALITY MONITORING ANALYSIS REPORT

| Parameter               | Unit   | Result | Standard:<br>(IS10500:2012) | Method Of Analysis                                             |
|-------------------------|--------|--------|-----------------------------|----------------------------------------------------------------|
| Mineral oil             | mg/lit | Nil    | 0.05                        | IS 3025 (Part 39)                                              |
| Anionic detergents      | mg/lit | Nil    | Max 0.2                     | APHA 23 <sup>rd</sup> Edition, (Part 5540 C)                   |
| Chloramines             | mg/lit | Nil    | Max 4.0                     | APHA 23 <sup>rd</sup> Edition, (Part 4500-Cl G)                |
| Selenium                | mg/lit | Nil    | Max 0.01                    | APHA 23 <sup>rd</sup> Edition, (Part 3500-Se C)                |
| DDT                     | µg/lit | Nil    | 1.0                         | APHA 23 <sup>rd</sup> Edition, (Part 6630C)                    |
| 2,4 D                   | µg/lit | Nil    | 3.0                         | APHA 23 <sup>rd</sup> Edition, (Part 6630C)                    |
| Gamma-HCH<br>(Lindane)  | µg/lit | Nil    | 2.0                         | APHA 23 <sup>rd</sup> Edition, (Part 6630C)                    |
| Endosulfan              | µg/lit | Nil    | 0.4                         | APHA 23 <sup>rd</sup> Edition, (Part 6630C)                    |
| Atrazine                | µg/lit | Nil    | 2.0                         | APHA 23 <sup>rd</sup> Edition, (Part 6630C)                    |
| Reactive Silica         | Ppm    | Nil    | 0.02                        | APHA 23 <sup>rd</sup> Edition, (Part 4500- SiO <sub>2</sub> D) |
| Sodium                  | mg/lit | BDL    | Not Specified               | APHA 23 <sup>rd</sup> Edition, (Part 3500 Na B)                |
| Potassium               | mg/lit | BDL    | Not Specified               | APHA 23 <sup>rd</sup> Edition, (Part 3500-K B)                 |
| Phosphorous             | mg/lit | BDL    | Not Specified               | IS 3025 (Part 31) 1988, Reaff – 2019                           |
| Iron                    | mg/lit | Nil    | 0.3                         | IS 3025 (Part 53) 2003, Reaff – 2019                           |
| Most Probable<br>Number | /100ml | Absent | 0/100ml                     | IS: 1622 – 1981, Multiple tube<br>technique                    |
| E. coli                 | /100ml | Absent | 0-1/100ml                   | IS: 5887 -1 & IS15186:2002 Multiple<br>tube technique          |
| Total Coliform          | /100ml | Absent | 0-1/100ml                   | IS:1622-1981, Multiple tube technique                          |
| Total Viable Count      | /100ml | Absent | 0-1/100ml                   | IS: 5402 : 2012                                                |
| Fecal                   | /100ml | Absent | 0-1/100ml                   | APHA 23 <sup>rd</sup> Edition Part 9230- B, Page<br>9-118      |

• BDL: - Below Detection Limits

For **GREEN ENVIRO**

*Sm Joshi*

Govt. Analyst



## SOIL ANALYSIS REPORT

| <b>CLIENT'S NAME</b>                |                        |       | <b>M/s. Joyville Shapoorji Housing Pvt. Ltd.</b>                                                                                                      |                              |
|-------------------------------------|------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| <b>CLIENT'S ADDRESS</b>             |                        |       | "Proposed Residential & Commercial Scheme",<br>S.No.98/1(P) 98/2, 99/1, 99/2(P), 99/3(P), 99/4(P),<br>101/2(P)&101/3 At Vill- Maan, Tal- Mulshi, Pune |                              |
| Report No: - GE/LAB/S/JSHPL1        |                        |       | Dated:- 11/05/2021                                                                                                                                    |                              |
| Lab Reference No: GE/LAB/S/ JSHPL01 |                        |       | Date Of Sampling: - 04/05/2021                                                                                                                        |                              |
| Date Of Analysis: - 05/05/2021      |                        |       | Details Of Sample- Soil Sample Near Stores Soil                                                                                                       |                              |
| Sample Collected By – Green Enviro  |                        |       | Sample Container – Zip Lock Plastic Bag                                                                                                               |                              |
| Sr. no                              | Parameter              | Unit  | Result                                                                                                                                                | Method Of Analysis           |
| 01                                  | Appearance             | ----  | Light Brown                                                                                                                                           | -                            |
| 02                                  | Texture                |       |                                                                                                                                                       |                              |
| A                                   | Clay                   | %     | 50.64                                                                                                                                                 | Method manual soil testing   |
| B                                   | Silt                   | %     | 16.35                                                                                                                                                 | Method manual soil testing   |
| C                                   | Sand                   | %     | 14.96                                                                                                                                                 | Method manual soil testing   |
| D                                   | Gravel                 | %     | 18.05                                                                                                                                                 | Method manual soil testing   |
| 03                                  | pH                     | Value | 7.20                                                                                                                                                  | IS 2720 Part -26 1987 RA2002 |
| 04                                  | Moisture Content       | %     | 18.53                                                                                                                                                 | IS 15106 2002                |
| 05                                  | Conductivity           | mmhos | 0.1736                                                                                                                                                | IS 14767 : 2000              |
| 06                                  | Water holding Capacity | %     | 22.49                                                                                                                                                 | IS 14765 2000                |
| 07                                  | Copper as Cu           | mg/kg | 03.10                                                                                                                                                 | IS 6092 Part- 5 1985         |
| 08                                  | Zinc as Zn             | mg/kg | 2.84                                                                                                                                                  | IS 6092 Part- 5 1985         |
| 09                                  | Lead as Pb             | mg/kg | 1.51                                                                                                                                                  | IS 6092 Part- 5 1985         |
| 10                                  | Cadmium as Cd          | mg/kg | BDL                                                                                                                                                   | IS 6092 Part- 5 1985         |
| 11                                  | Iron as Fe             | mg/kg | 2.21                                                                                                                                                  | IS 6092 Part- 5 1985         |
| 12                                  | Manganese as Mn        | mg/kg | 5.76                                                                                                                                                  | IS 6092 Part- 5 1985         |
| 13                                  | Aluminium as Al        | mg/kg | BDL                                                                                                                                                   | IS 6092 Part- 5 1985         |
| 14                                  | Tin as Sn              | mg/kg | 1.82                                                                                                                                                  | IS 6092 Part- 5 1985         |
| 15                                  | Arsenic as As          | mg/kg | Nil                                                                                                                                                   | IS 6092 Part- 5 1985         |
| 16                                  | Phosphorous as P       | mg/kg | 02.54                                                                                                                                                 | IS 6092 (Part 3) 2004        |
| 17                                  | Total Nitrogen as N    | mg/kg | 6183                                                                                                                                                  | Method manual soil testing   |
| 18                                  | Potassium as K         | mg/kg | 167.52                                                                                                                                                | IS 2799 -1980                |
| 19                                  | Sodium as Na           | mg/kg | BDL                                                                                                                                                   | IS 2799 -1980                |

•BDL: Below Detection Limits.

For **GREEN ENVIRO**

*Sm Joshi*

**Govt. Analyst**





## SOIL ANALYSIS REPORT

| <b>CLIENT'S NAME</b>                |                        |       | <b>M/s. Joyville Shapoorji Housing Pvt. Ltd.</b>                                                                                                      |                              |
|-------------------------------------|------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| <b>CLIENT'S ADDRESS</b>             |                        |       | "Proposed Residential & Commercial Scheme",<br>S.No.98/1(P) 98/2, 99/1, 99/2(P), 99/3(P), 99/4(P),<br>101/2(P)&101/3 At Vill- Maan, Tal- Mulshi, Pune |                              |
| Report No: - GE/LAB/S/ JSHPL2       |                        |       | Dated:- 11/05/2021                                                                                                                                    |                              |
| Lab Reference No: GE/LAB/S/ JSHPL02 |                        |       | Date Of Sampling: - 04/05/2021                                                                                                                        |                              |
| Date Of Analysis: - 05/05/2021      |                        |       | Details Of Sample- Soil Sample Preserve Black Soil                                                                                                    |                              |
| Sample Collected By – Green Enviro  |                        |       | Sample Container – Zip Lock Plastic Bag                                                                                                               |                              |
| Sr. no                              | Parameter              | Unit  | Result                                                                                                                                                | Method Of Analysis           |
| 01                                  | Appearance             | ----  | Light Black                                                                                                                                           | -                            |
| 02                                  | Texture                |       |                                                                                                                                                       |                              |
| A                                   | Clay                   | %     | 47.97                                                                                                                                                 | Method manual soil testing   |
| B                                   | Silt                   | %     | 19.86                                                                                                                                                 | Method manual soil testing   |
| C                                   | Sand                   | %     | 12.47                                                                                                                                                 | Method manual soil testing   |
| D                                   | Gravel                 | %     | 19.70                                                                                                                                                 | Method manual soil testing   |
| 03                                  | pH                     | Value | 7.13                                                                                                                                                  | IS 2720 Part -26 1987 RA2002 |
| 04                                  | Moisture Content       | %     | 15.84                                                                                                                                                 | IS 15106 2002                |
| 05                                  | Conductivity           | Mmhos | 0.1501                                                                                                                                                | IS 14767 : 2000              |
| 06                                  | Water holding Capacity | %     | 18.37                                                                                                                                                 | IS 14765 2000                |
| 07                                  | Copper as Cu           | mg/kg | 02.89                                                                                                                                                 | IS 6092 Part- 5 1985         |
| 08                                  | Zinc as Zn             | mg/kg | 2.35                                                                                                                                                  | IS 6092 Part- 5 1985         |
| 09                                  | Lead as Pb             | mg/kg | 1.20                                                                                                                                                  | IS 6092 Part- 5 1985         |
| 10                                  | Cadmium as Cd          | mg/kg | BDL                                                                                                                                                   | IS 6092 Part- 5 1985         |
| 11                                  | Iron as Fe             | mg/kg | 1.96                                                                                                                                                  | IS 6092 Part- 5 1985         |
| 12                                  | Manganese as Mn        | mg/kg | 5.20                                                                                                                                                  | IS 6092 Part- 5 1985         |
| 13                                  | Aluminium as Al        | mg/kg | BDL                                                                                                                                                   | IS 6092 Part- 5 1985         |
| 14                                  | Tin as Sn              | mg/kg | 1.51                                                                                                                                                  | IS 6092 Part- 5 1985         |
| 15                                  | Arsenic as As          | mg/kg | Nil                                                                                                                                                   | IS 6092 Part- 5 1985         |
| 16                                  | Phosphorous as P       | mg/kg | 01.92                                                                                                                                                 | IS 6092 (Part 3) 2004        |
| 17                                  | Total Nitrogen as N    | mg/kg | 5873                                                                                                                                                  | Method manual soil testing   |
| 18                                  | Potassium as K         | mg/kg | 145.68                                                                                                                                                | IS 2799 -1980                |
| 19                                  | Sodium as Na           | mg/kg | BDL                                                                                                                                                   | IS 2799 -1980                |

●BDL: Below Detection Limits.

For **GREEN ENVIRO**

*Sm Joshi*

**Govt. Analyst**



## AMBIENT AIR QUALITY MONITORING ANALYSIS REPORT

### TEST REPORT

Date – 11/08/2021

|                                           |                                                                                                                                               |                    |                        |                                                          |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------------|----------------------------------------------------------|
| Sample/Report No.                         | GE/LAB/AAQ/JSHPL1                                                                                                                             |                    |                        |                                                          |
| Name Of Customer                          | M/s. Joyville Shapoorji Housing Pvt. Ltd.                                                                                                     |                    |                        |                                                          |
| Address Of Customer                       | “Proposed Residential & Commercial Scheme”, S.No.98/1(P) 98/2, 99/1, 99/2(P), 99/3(P), 99/4(P),101/2(P)&101/3 At Vill- Maan, Tal- Mulshi,Pune |                    |                        |                                                          |
| Sample Drawn By                           | Vendor on 04/08/2021                                                                                                                          | Sample Received On | 05/08/2021             |                                                          |
| Start of Analysis                         | 05/08/2021                                                                                                                                    | End Of Analysis    | 07/08/2021             |                                                          |
| Monitoring For                            | Ambient Air Monitoring                                                                                                                        | Sampling Location  | Near Sales Office Area |                                                          |
| Sampling Duration                         | 24 Hrly                                                                                                                                       | Receptor Height    | 2.00 meter from G.L.   |                                                          |
| Ambient Temperature                       | Max- 29.7 <sup>o</sup> C, Min-22.9 <sup>o</sup> C                                                                                             | Relative Humidity  | Max- 81.2%, Min- 75.3% |                                                          |
| Limits                                    | National Ambient Air Quality Standards Vide GSR 826(E)16.11.2009                                                                              |                    |                        |                                                          |
| Parameters                                | Unit                                                                                                                                          | Result             | Limits                 | Method Of Analysis                                       |
| General Parameters                        |                                                                                                                                               |                    |                        |                                                          |
| Particulate matter less than 10 micron    | µg/m <sup>3</sup>                                                                                                                             | 73.18              | 100                    | EPA/625/R-96/010a(Compendium Method IO-2.1): 2017        |
| Particulate matter less than2.5 micron    | µg/m <sup>3</sup>                                                                                                                             | 39.95              | 60                     | USEPA Method Aerosol Science Tech FRM 35(4)339-342: 2017 |
| Sulphur Dioxide                           | µg/m <sup>3</sup>                                                                                                                             | 27.86              | 80                     | IS 5182 ( part II ) 2001,Reaff: 2017                     |
| Oxides of Nitrogen                        | µg/m <sup>3</sup>                                                                                                                             | 34.57              | 80                     | IS 5182 ( part VI ) 2006,Reaff:2017                      |
| Carbon Monoxide                           | mg/m <sup>3</sup>                                                                                                                             | 0.56               | 2.0                    | IS 5182 ( part X ) 1999,Reaff: 2014                      |
| Lead                                      | µg/m <sup>3</sup>                                                                                                                             | BDL                | 1                      | IS 5182 (part XXII) 2004,Reaff:2014                      |
| Ozone                                     | µg/m <sup>3</sup>                                                                                                                             | 29.45              | 100                    | IS 5182 (part IX) 1974, Reaff: 2014                      |
| Ammonia                                   | µg/m <sup>3</sup>                                                                                                                             | BDL                | 400                    | APHA 2nd Edition Method No. 401                          |
| Benzene                                   | µg/m <sup>3</sup>                                                                                                                             | BDL                | 5                      | IS 5182 (part XI) 2006, Reaff- 2017                      |
| Benzo (a) Pyrene - Particulate Phase only | ng/m <sup>3</sup>                                                                                                                             | BDL                | 1                      | IS 5182 (Part 12):2004,Reaff: 2014                       |
| Arsenic                                   | ng/m <sup>3</sup>                                                                                                                             | BDL                | 6                      | APHA 2nd Edition Method No. 822                          |
| Nickel                                    | ng/m <sup>3</sup>                                                                                                                             | BDL                | 20                     | APHA 2nd Edition Method No. 822                          |

●BDL: Below Detection Limits.

●Remarks: - Monitoring Results are well within the limits prescribed by CPCB.

For **GREEN ENVIRO**

*Sm Joshi*

Govt. Analyst





## AMBIENT AIR QUALITY MONITORING ANALYSIS REPORT

### TEST REPORT

Date – 11/08/2021

|                                           |                                                                                                                                                |        |                    |                                                          |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------------------|----------------------------------------------------------|
| Sample/Report No.                         | GE/LAB/AAQ/JSHPL2                                                                                                                              |        |                    |                                                          |
| Name Of Customer                          | M/s. Joyville Shapoorji Housing Pvt. Ltd.                                                                                                      |        |                    |                                                          |
| Address Of Customer                       | “Proposed Residential & Commercial Scheme”, S.No.98/1(P) 98/2, 99/1, 99/2(P), 99/3(P), 99/4(P),101/2(P)&101/3 At Vill- Maan, Tal- Mulshi, Pune |        |                    |                                                          |
| Sample Drawn By                           | Vendor on 04/08/2021                                                                                                                           |        | Sample Received On | 05/08/2021                                               |
| Start of Analysis                         | 05/08/2021                                                                                                                                     |        | End Of Analysis    | 07/08/2021                                               |
| Monitoring For                            | Ambient Air Monitoring                                                                                                                         |        | Sampling Location  | Near Site Safety Office                                  |
| Sampling Duration                         | 24 Hrly                                                                                                                                        |        | Receptor Height    | 2.00 meter from G.L.                                     |
| Ambient Temperature                       | Max- 29.3 <sup>0</sup> C, Min-22.5 <sup>0</sup> C                                                                                              |        | Relative Humidity  | Max- 81.9%, Min- 75.9%                                   |
| Limits                                    | National Ambient Air Quality Standards Vide GSR 826(E)16.11.2009                                                                               |        |                    |                                                          |
| Parameters                                | Unit                                                                                                                                           | Result | Limits             | Method Of Analysis                                       |
| General Parameters                        |                                                                                                                                                |        |                    |                                                          |
| Particulate matter less than 10 micron    | µg/m <sup>3</sup>                                                                                                                              | 77.46  | 100                | EPA/625/R-96/010a(Compendium Method IO-2.1): 2017        |
| Particulate matter less than2.5 micron    | µg/m <sup>3</sup>                                                                                                                              | 43.12  | 60                 | USEPA Method Aerosol Science Tech FRM 35(4)339-342: 2017 |
| Sulphur Dioxide                           | µg/m <sup>3</sup>                                                                                                                              | 30.65  | 80                 | IS 5182 ( part II ) 2001,Reaff: 2017                     |
| Oxides of Nitrogen                        | µg/m <sup>3</sup>                                                                                                                              | 36.48  | 80                 | IS 5182 ( part VI ) 2006,Reaff:2017                      |
| Carbon Monoxide                           | mg/m <sup>3</sup>                                                                                                                              | 0.60   | 2.0                | IS 5182 ( part X ) 1999,Reaff: 2014                      |
| Lead                                      | µg/m <sup>3</sup>                                                                                                                              | BDL    | 1                  | IS 5182 (part XXII) 2004,Reaff:2014                      |
| Ozone                                     | µg/m <sup>3</sup>                                                                                                                              | 32.21  | 100                | IS 5182 (part IX) 1974, Reaff: 2014                      |
| Ammonia                                   | µg/m <sup>3</sup>                                                                                                                              | BDL    | 400                | APHA 2nd Edition Method No. 401                          |
| Benzene                                   | µg/m <sup>3</sup>                                                                                                                              | BDL    | 5                  | IS 5182 (part XI) 2006, Reaff- 2017                      |
| Benzo (a) Pyrene - Particulate Phase only | ng/m <sup>3</sup>                                                                                                                              | BDL    | 1                  | IS 5182 (Part 12):2004,Reaff: 2014                       |
| Arsenic                                   | ng/m <sup>3</sup>                                                                                                                              | BDL    | 6                  | APHA 2nd Edition Method No. 822                          |
| Nickel                                    | ng/m <sup>3</sup>                                                                                                                              | BDL    | 20                 | APHA 2nd Edition Method No. 822                          |

•BDL: Below Detection Limits.

•Remarks: - Monitoring Results are well within the limits prescribed by CPCB.

For **GREEN ENVIRO**

*Sm Joshi*

Govt. Analyst



## AMBIENT AIR QUALITY MONITORING ANALYSIS REPORT

### TEST REPORT

Date – 11/08/2021

|                                           |                                                                                                                                               |                    |                        |                                                          |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------------|----------------------------------------------------------|
| Sample/Report No.                         | GE/LAB/AAQ/JSHPL3                                                                                                                             |                    |                        |                                                          |
| Name Of Customer                          | M/s. Joyville Shapoorji Housing Pvt. Ltd.                                                                                                     |                    |                        |                                                          |
| Address Of Customer                       | “Proposed Residential & Commercial Scheme”, S.No.98/1(P) 98/2, 99/1, 99/2(P), 99/3(P), 99/4(P),101/2(P)&101/3 At Vill- Maan, Tal- Mulshi,Pune |                    |                        |                                                          |
| Sample Drawn By                           | Vendor on 04/08/2021                                                                                                                          | Sample Received On | 05/08/2021             |                                                          |
| Start of Analysis                         | 05/08/2021                                                                                                                                    | End Of Analysis    | 07/08/2021             |                                                          |
| Monitoring For                            | Ambient Air Monitoring                                                                                                                        | Sampling Location  | Steel Yard Area        |                                                          |
| Sampling Duration                         | 24 Hrly                                                                                                                                       | Receptor Height    | 2.00 meter from G.L.   |                                                          |
| Ambient Temperature                       | Max- 29.5 <sup>0</sup> C, Min-22.7 <sup>0</sup> C                                                                                             | Relative Humidity  | Max- 81.5%, Min- 75.4% |                                                          |
| Limits                                    | National Ambient Air Quality Standards Vide GSR 826(E)16.11.2009                                                                              |                    |                        |                                                          |
| Parameters                                | Unit                                                                                                                                          | Result             | Limits                 | Method Of Analysis                                       |
| General Parameters                        |                                                                                                                                               |                    |                        |                                                          |
| Particulate matter less than 10 micron    | µg/m <sup>3</sup>                                                                                                                             | 85.47              | 100                    | EPA/625/R-96/010a(Compendium Method IO-2.1): 2017        |
| Particulate matter less than2.5 micron    | µg/m <sup>3</sup>                                                                                                                             | 50.30              | 60                     | USEPA Method Aerosol Science Tech FRM 35(4)339-342: 2017 |
| Sulphur Dioxide                           | µg/m <sup>3</sup>                                                                                                                             | 41.29              | 80                     | IS 5182 ( part II ) 2001,Reaff: 2017                     |
| Oxides of Nitrogen                        | µg/m <sup>3</sup>                                                                                                                             | 47.63              | 80                     | IS 5182 ( part VI ) 2006,Reaff:2017                      |
| Carbon Monoxide                           | mg/m <sup>3</sup>                                                                                                                             | 0.70               | 2.0                    | IS 5182 ( part X ) 1999,Reaff: 2014                      |
| Lead                                      | µg/m <sup>3</sup>                                                                                                                             | BDL                | 1                      | IS 5182 (part XXII) 2004,Reaff:2014                      |
| Ozone                                     | µg/m <sup>3</sup>                                                                                                                             | 37.81              | 100                    | IS 5182 (part IX) 1974, Reaff: 2014                      |
| Ammonia                                   | µg/m <sup>3</sup>                                                                                                                             | BDL                | 400                    | APHA 2nd Edition Method No. 401                          |
| Benzene                                   | µg/m <sup>3</sup>                                                                                                                             | BDL                | 5                      | IS 5182 (part XI) 2006, Reaff- 2017                      |
| Benzo (a) Pyrene - Particulate Phase only | ng/m <sup>3</sup>                                                                                                                             | BDL                | 1                      | IS 5182 (Part 12):2004,Reaff: 2014                       |
| Arsenic                                   | ng/m <sup>3</sup>                                                                                                                             | BDL                | 6                      | APHA 2nd Edition Method No. 822                          |
| Nickel                                    | ng/m <sup>3</sup>                                                                                                                             | BDL                | 20                     | APHA 2nd Edition Method No. 822                          |

•BDL: Below Detection Limits.

•Remarks: - Monitoring Results are well within the limits prescribed by CPCB.

For **GREEN ENVIRO**

*Sm Joshi*

Govt. Analyst



## AMBIENT AIR QUALITY MONITORING ANALYSIS REPORT

### TEST REPORT

Date – 11/08/2021

|                                           |                                                                                                                                               |                    |                        |                                                          |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------------|----------------------------------------------------------|
| Sample/Report No.                         | GE/LAB/AAQ/JSHPL4                                                                                                                             |                    |                        |                                                          |
| Name Of Customer                          | M/s. Joyville Shapoorji Housing Pvt. Ltd.                                                                                                     |                    |                        |                                                          |
| Address Of Customer                       | “Proposed Residential & Commercial Scheme”, S.No.98/1(P) 98/2, 99/1, 99/2(P), 99/3(P), 99/4(P),101/2(P)&101/3 At Vill- Maan, Tal- Mulshi,Pune |                    |                        |                                                          |
| Sample Drawn By                           | Vendor on 04/08/2021                                                                                                                          | Sample Received On | 05/08/2021             |                                                          |
| Start of Analysis                         | 05/08/2021                                                                                                                                    | End Of Analysis    | 07/08/2021             |                                                          |
| Monitoring For                            | Ambient Air Monitoring                                                                                                                        | Sampling Location  | Vehicle Movement Gate  |                                                          |
| Sampling Duration                         | 24 Hrly                                                                                                                                       | Receptor Height    | 2.00 meter from G.L.   |                                                          |
| Ambient Temperature                       | Max- 29.1 <sup>0</sup> C, Min-22.3 <sup>0</sup> C                                                                                             | Relative Humidity  | Max- 82.2%, Min- 76.3% |                                                          |
| Limits                                    | National Ambient Air Quality Standards Vide GSR 826(E)16.11.2009                                                                              |                    |                        |                                                          |
| Parameters                                | Unit                                                                                                                                          | Result             | Limits                 | Method Of Analysis                                       |
| General Parameters                        |                                                                                                                                               |                    |                        |                                                          |
| Particulate matter less than 10 micron    | µg/m <sup>3</sup>                                                                                                                             | 83.31              | 100                    | EPA/625/R-96/010a(Compendium Method IO-2.1): 2017        |
| Particulate matter less than2.5 micron    | µg/m <sup>3</sup>                                                                                                                             | 47.86              | 60                     | USEPA Method Aerosol Science Tech FRM 35(4)339-342: 2017 |
| Sulphur Dioxide                           | µg/m <sup>3</sup>                                                                                                                             | 38.46              | 80                     | IS 5182 ( part II ) 2001,Reaff: 2017                     |
| Oxides of Nitrogen                        | µg/m <sup>3</sup>                                                                                                                             | 44.24              | 80                     | IS 5182 ( part VI ) 2006,Reaff:2017                      |
| Carbon Monoxide                           | mg/m <sup>3</sup>                                                                                                                             | 0.65               | 2.0                    | IS 5182 ( part X ) 1999,Reaff: 2014                      |
| Lead                                      | µg/m <sup>3</sup>                                                                                                                             | BDL                | 1                      | IS 5182 (part XXII) 2004,Reaff:2014                      |
| Ozone                                     | µg/m <sup>3</sup>                                                                                                                             | 35.75              | 100                    | IS 5182 (part IX) 1974, Reaff: 2014                      |
| Ammonia                                   | µg/m <sup>3</sup>                                                                                                                             | BDL                | 400                    | APHA 2nd Edition Method No. 401                          |
| Benzene                                   | µg/m <sup>3</sup>                                                                                                                             | BDL                | 5                      | IS 5182 (part XI) 2006, Reaff- 2017                      |
| Benzo (a) Pyrene - Particulate Phase only | ng/m <sup>3</sup>                                                                                                                             | BDL                | 1                      | IS 5182 (Part 12):2004,Reaff: 2014                       |
| Arsenic                                   | ng/m <sup>3</sup>                                                                                                                             | BDL                | 6                      | APHA 2nd Edition Method No. 822                          |
| Nickel                                    | ng/m <sup>3</sup>                                                                                                                             | BDL                | 20                     | APHA 2nd Edition Method No. 822                          |

•BDL: Below Detection Limits.

•Remarks: - Monitoring Results are well within the limits prescribed by CPCB.

For **GREEN ENVIRO**

*Sm Joshi*

Govt. Analyst





## AMBIENT AIR QUALITY MONITORING ANALYSIS REPORT

### TEST REPORT

Date – 11/08/2021

|                                           |                                                                                                                                                |        |                    |                                                          |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------------------|----------------------------------------------------------|
| Sample/Report No.                         | GE/LAB/AAQ/JSHPL5                                                                                                                              |        |                    |                                                          |
| Name Of Customer                          | M/s. Joyville Shapoorji Housing Pvt. Ltd.                                                                                                      |        |                    |                                                          |
| Address Of Customer                       | “Proposed Residential & Commercial Scheme”, S.No.98/1(P) 98/2, 99/1, 99/2(P), 99/3(P), 99/4(P),101/2(P)&101/3 At Vill- Maan, Tal- Mulshi, Pune |        |                    |                                                          |
| Sample Drawn By                           | Vendor on 04/08/2021                                                                                                                           |        | Sample Received On | 05/08/2021                                               |
| Start of Analysis                         | 05/08/2021                                                                                                                                     |        | End Of Analysis    | 07/08/2021                                               |
| Monitoring For                            | Ambient Air Monitoring                                                                                                                         |        | Sampling Location  | Back Side of Site                                        |
| Sampling Duration                         | 24 Hrly                                                                                                                                        |        | Receptor Height    | 2.00 meter from G.L.                                     |
| Ambient Temperature                       | Max- 29.4 <sup>0</sup> C, Min-22.6 <sup>0</sup> C                                                                                              |        | Relative Humidity  | Max- 81.7%, Min- 75.6%                                   |
| Limits                                    | National Ambient Air Quality Standards Vide GSR 826(E)16.11.2009                                                                               |        |                    |                                                          |
| Parameters                                | Unit                                                                                                                                           | Result | Limits             | Method Of Analysis                                       |
| General Parameters                        |                                                                                                                                                |        |                    |                                                          |
| Particulate matter less than 10 micron    | µg/m <sup>3</sup>                                                                                                                              | 62.21  | 100                | EPA/625/R-96/010a(Compendium Method IO-2.1): 2017        |
| Particulate matter less than2.5 micron    | µg/m <sup>3</sup>                                                                                                                              | 33.83  | 60                 | USEPA Method Aerosol Science Tech FRM 35(4)339-342: 2017 |
| Sulphur Dioxide                           | µg/m <sup>3</sup>                                                                                                                              | 24.76  | 80                 | IS 5182 ( part II ) 2001,Reaff: 2017                     |
| Oxides of Nitrogen                        | µg/m <sup>3</sup>                                                                                                                              | 29.52  | 80                 | IS 5182 ( part VI ) 2006,Reaff:2017                      |
| Carbon Monoxide                           | mg/m <sup>3</sup>                                                                                                                              | 0.47   | 2.0                | IS 5182 ( part X ) 1999,Reaff: 2014                      |
| Lead                                      | µg/m <sup>3</sup>                                                                                                                              | BDL    | 1                  | IS 5182 (part XXII) 2004,Reaff:2014                      |
| Ozone                                     | µg/m <sup>3</sup>                                                                                                                              | 26.60  | 100                | IS 5182 (part IX) 1974, Reaff: 2014                      |
| Ammonia                                   | µg/m <sup>3</sup>                                                                                                                              | BDL    | 400                | APHA 2nd Edition Method No. 401                          |
| Benzene                                   | µg/m <sup>3</sup>                                                                                                                              | BDL    | 5                  | IS 5182 (part XI) 2006, Reaff- 2017                      |
| Benzo (a) Pyrene - Particulate Phase only | ng/m <sup>3</sup>                                                                                                                              | BDL    | 1                  | IS 5182 (Part 12):2004,Reaff: 2014                       |
| Arsenic                                   | ng/m <sup>3</sup>                                                                                                                              | BDL    | 6                  | APHA 2nd Edition Method No. 822                          |
| Nickel                                    | ng/m <sup>3</sup>                                                                                                                              | BDL    | 20                 | APHA 2nd Edition Method No. 822                          |

●BDL: Below Detection Limits.

●Remarks: - Monitoring Results are well within the limits prescribed by CPCB.

For **GREEN ENVIRO**

*Sm Joshi*

Govt. Analyst



## AMBIENT NOISE MONITORING ANALYSIS REPORT

### TEST REPORT

|                     |                                                                                                                                                                 |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sample/Report No.   | GE/LAB/ANM/JSHPL1                                                                                                                                               |
| Name Of Customer    | M/s. Joyville Shapoorji Housing Pvt. Ltd.                                                                                                                       |
| Address Of Customer | "Proposed Residential & Commercial Scheme",<br>S.No.98/1(P) 98/2, 99/1, 99/2(P), 99/3(P), 99/4(P),101/2(P)<br>& 101/3 At Vill - Maan, Tal - Mulshi, Dist - Pune |
| Report Dated        | 11/08/2021                                                                                                                                                      |
| Date Of Sampling    | Vendor on 04/08/2021 & 05/08/2021                                                                                                                               |
| Date Of Analysis    | 04/08/2021 & 05/08/2021                                                                                                                                         |
| Monitoring For      | Ambient Noise Monitoring                                                                                                                                        |
| Sampling Location   | Near Sales Office Area                                                                                                                                          |
| Limits*             | Maharashtra Pollution Control Board has prescribed 55 dB(A)<br>as an upper limit of Noise Level during day time & 45 dB(A)<br>during Night time                 |
| Time Of Sampling    | 1) Day time shall mean from 06:00 A.M. to 10:00 P.M.<br>2) Night time shall mean from 10:00 P.M. to 06:00 A.M                                                   |

### RESULTS OF ANALYSIS

| TIME       | UNIT  | READINGS | MPCB LIMITS |
|------------|-------|----------|-------------|
| 06:00 A.M. | dB(A) | 42.1     | 55          |
| 07:00 A.M. | dB(A) | 41.9     | 55          |
| 08:00 A.M. | dB(A) | 43.7     | 55          |
| 09:00 A.M. | dB(A) | 45.8     | 55          |
| 10:00 A.M. | dB(A) | 48.6     | 55          |
| 11:00 A.M. | dB(A) | 53.2     | 55          |
| 12:00 P.M. | dB(A) | 51.4     | 55          |
| 13:00 P.M. | dB(A) | 54.1     | 55          |





| TIME       | UNIT  | READINGS | MPCB LIMITS |
|------------|-------|----------|-------------|
| 14:00 P.M. | dB(A) | 54.8     | 55          |
| 15:00 P.M. | dB(A) | 53.6     | 55          |
| 16:00 P.M. | dB(A) | 54.5     | 55          |
| 17:00 P.M. | dB(A) | 51.7     | 55          |
| 18:00 P.M. | dB(A) | 52.1     | 55          |
| 19:00 P.M. | dB(A) | 53.3     | 55          |
| 20:00 P.M. | dB(A) | 49.4     | 55          |
| 21:00 P.M. | dB(A) | 43.2     | 45          |
| 22:00 P.M. | dB(A) | 44.3     | 45          |
| 23:00 P.M. | dB(A) | 43.4     | 45          |
| 00:00 A.M. | dB(A) | 41.2     | 45          |
| 01:00 A.M. | dB(A) | 42.8     | 45          |
| 02:00 A.M. | dB(A) | 40.7     | 45          |
| 03:00 A.M. | dB(A) | 41.6     | 45          |
| 04:00 A.M. | dB(A) | 42.5     | 45          |
| 05:00 A.M. | dB(A) | 40.3     | 45          |

**REMARK/OBSERVATIONS:** Ambient Air Quality Standard in respect to Noise

| Area code | Category of Area/Zone | Limits in dB (A) Leq* | Limits in dB (A) Leq* |
|-----------|-----------------------|-----------------------|-----------------------|
|           |                       | Day Time              | Night Time            |
| (A)       | Industrial Area       | 75                    | 70                    |
| (B)       | Commercial Area       | 65                    | 55                    |
| (C)       | Residential Area      | 55                    | 45                    |
| (D)       | Silence Zone          | 50                    | 40                    |

1. Silence Zone is defined as an area comprising not less than 100 meters around hospitals, educational institute and courts. The silence zones are zones which are declared as such by the competent authority.
2. Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.

\*dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.

For **GREEN ENVIRO**

*Sm Joshi*

Govt. Analyst



## AMBIENT NOISE MONITORING ANALYSIS REPORT

### TEST REPORT

|                     |                                                                                                                                                                 |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sample/Report No.   | GE/LAB/ANM/JSHPL2                                                                                                                                               |
| Name Of Customer    | M/s. Joyville Shapoorji Housing Pvt. Ltd.                                                                                                                       |
| Address Of Customer | "Proposed Residential & Commercial Scheme",<br>S.No.98/1(P) 98/2, 99/1, 99/2(P), 99/3(P), 99/4(P),101/2(P)<br>& 101/3 At Vill - Maan, Tal - Mulshi, Dist - Pune |
| Report Dated        | 11/08/2021                                                                                                                                                      |
| Date Of Sampling    | Vendor on 04/08/2021 & 05/08/2021                                                                                                                               |
| Date Of Analysis    | 04/08/2021 & 05/08/2021                                                                                                                                         |
| Monitoring For      | Ambient Noise Monitoring                                                                                                                                        |
| Sampling Location   | Near Site Safety Office                                                                                                                                         |
| Limits*             | Maharashtra Pollution Control Board has prescribed 55 dB(A)<br>as an upper limit of Noise Level during day time & 45 dB(A)<br>during Night time                 |
| Time Of Sampling    | 1) Day time shall mean from 06:00 A.M. to 10:00 P.M.<br>2) Night time shall mean from 10:00 P.M. to 06:00 A.M                                                   |

### RESULTS OF ANALYSIS

| TIME       | UNIT  | READINGS | MPCB LIMITS |
|------------|-------|----------|-------------|
| 06:00 A.M. | dB(A) | 43.8     | 55          |
| 07:00 A.M. | dB(A) | 42.5     | 55          |
| 08:00 A.M. | dB(A) | 45.2     | 55          |
| 09:00 A.M. | dB(A) | 48.1     | 55          |
| 10:00 A.M. | dB(A) | 50.3     | 55          |
| 11:00 A.M. | dB(A) | 49.4     | 55          |
| 12:00 P.M. | dB(A) | 53.6     | 55          |
| 13:00 P.M. | dB(A) | 48.8     | 55          |



| TIME       | UNIT  | READINGS | MPCB LIMITS |
|------------|-------|----------|-------------|
| 14:00 P.M. | dB(A) | 50.7     | 55          |
| 15:00 P.M. | dB(A) | 49.9     | 55          |
| 16:00 P.M. | dB(A) | 54.6     | 55          |
| 17:00 P.M. | dB(A) | 53.9     | 55          |
| 18:00 P.M. | dB(A) | 51.8     | 55          |
| 19:00 P.M. | dB(A) | 52.6     | 55          |
| 20:00 P.M. | dB(A) | 49.1     | 55          |
| 21:00 P.M. | dB(A) | 48.3     | 55          |
| 22:00 P.M. | dB(A) | 42.2     | 45          |
| 23:00 P.M. | dB(A) | 41.4     | 45          |
| 00:00 A.M. | dB(A) | 40.1     | 45          |
| 01:00 A.M. | dB(A) | 42.8     | 45          |
| 02:00 A.M. | dB(A) | 43.2     | 45          |
| 03:00 A.M. | dB(A) | 41.7     | 45          |
| 04:00 A.M. | dB(A) | 40.6     | 45          |
| 05:00 A.M. | dB(A) | 40.8     | 45          |

**REMARK/OBSERVATIONS:** Ambient Air Quality Standard in respect to Noise

| Area code | Category of Area/Zone | Limits in dB (A) Leq* | Limits in dB (A) Leq* |
|-----------|-----------------------|-----------------------|-----------------------|
|           |                       | Day Time              | Night Time            |
| (A)       | Industrial Area       | 75                    | 70                    |
| (B)       | Commercial Area       | 65                    | 55                    |
| (C)       | Residential Area      | 55                    | 45                    |
| (D)       | Silence Zone          | 50                    | 40                    |

1. Silence Zone is defined as an area comprising not less than 100 meters around hospitals, educational institute and courts. The silence zones are zones which are declared as such by the competent authority.
2. Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.

\*dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.

For **GREEN ENVIRO**

*Sm Joshi*

Govt. Analyst



## AMBIENT NOISE MONITORING ANALYSIS REPORT

### TEST REPORT

|                     |                                                                                                                                                                  |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sample/Report No.   | GE/LAB/ANM/JSHPL3                                                                                                                                                |
| Name Of Customer    | M/s. Joyville Shapoorji Housing Pvt. Ltd.                                                                                                                        |
| Address Of Customer | "Proposed Residential & Commercial Scheme",<br>S.No.98/1(P) 98/2, 99/1, 99/2(P), 99/3(P), 99/4(P), 101/2(P)<br>& 101/3 At Vill - Maan, Tal - Mulshi, Dist - Pune |
| Report Dated        | 11/08/2021                                                                                                                                                       |
| Date Of Sampling    | Vendor on 04/08/2021 & 05/08/2021                                                                                                                                |
| Date Of Analysis    | 04/08/2021 & 05/08/2021                                                                                                                                          |
| Monitoring For      | Ambient Noise Monitoring                                                                                                                                         |
| Sampling Location   | Steel Yard Area                                                                                                                                                  |
| Limits*             | Maharashtra Pollution Control Board has prescribed 55 dB(A)<br>as an upper limit of Noise Level during day time & 45 dB(A)<br>during Night time                  |
| Time Of Sampling    | 1) Day time shall mean from 06:00 A.M. to 10:00 P.M.<br>2) Night time shall mean from 10:00 P.M. to 06:00 A.M                                                    |

### RESULTS OF ANALYSIS

| TIME       | UNIT  | READINGS | MPCB LIMITS |
|------------|-------|----------|-------------|
| 06:00 A.M. | dB(A) | 44.3     | 55          |
| 07:00 A.M. | dB(A) | 46.4     | 55          |
| 08:00 A.M. | dB(A) | 47.7     | 55          |
| 09:00 A.M. | dB(A) | 48.9     | 55          |
| 10:00 A.M. | dB(A) | 45.7     | 55          |
| 11:00 A.M. | dB(A) | 50.5     | 55          |
| 12:00 P.M. | dB(A) | 52.2     | 55          |
| 13:00 P.M. | dB(A) | 51.1     | 55          |





| TIME       | UNIT  | READINGS | MPCB LIMITS |
|------------|-------|----------|-------------|
| 14:00 P.M. | dB(A) | 52.9     | 55          |
| 15:00 P.M. | dB(A) | 50.8     | 55          |
| 16:00 P.M. | dB(A) | 53.6     | 55          |
| 17:00 P.M. | dB(A) | 52.5     | 55          |
| 18:00 P.M. | dB(A) | 51.4     | 55          |
| 19:00 P.M. | dB(A) | 54.1     | 55          |
| 20:00 P.M. | dB(A) | 53.3     | 55          |
| 21:00 P.M. | dB(A) | 52.6     | 55          |
| 22:00 P.M. | dB(A) | 44.8     | 45          |
| 23:00 P.M. | dB(A) | 43.5     | 45          |
| 00:00 A.M. | dB(A) | 41.7     | 45          |
| 01:00 A.M. | dB(A) | 43.9     | 45          |
| 02:00 A.M. | dB(A) | 40.8     | 45          |
| 03:00 A.M. | dB(A) | 41.6     | 45          |
| 04:00 A.M. | dB(A) | 40.4     | 45          |
| 05:00 A.M. | dB(A) | 42.1     | 45          |

**REMARK/OBSERVATIONS:** Ambient Air Quality Standard in respect to Noise

| Area code | Category of Area/Zone | Limits in dB (A) Leq* | Limits in dB (A) Leq* |
|-----------|-----------------------|-----------------------|-----------------------|
|           |                       | Day Time              | Night Time            |
| (A)       | Industrial Area       | 75                    | 70                    |
| (B)       | Commercial Area       | 65                    | 55                    |
| (C)       | Residential Area      | 55                    | 45                    |
| (D)       | Silence Zone          | 50                    | 40                    |

1. Silence Zone is defined as an area comprising not less than 100 meters around hospitals, educational institute and courts. The silence zones are zones which are declared as such by the competent authority.
2. Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.

\*dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.

For **GREEN ENVIRO**

*Sm Joshi*

Govt. Analyst





## AMBIENT NOISE MONITORING ANALYSIS REPORT

### TEST REPORT

|                     |                                                                                                                                                                 |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sample/Report No.   | GE/LAB/ANM/JSHPL4                                                                                                                                               |
| Name Of Customer    | M/s. Joyville Shapoorji Housing Pvt. Ltd.                                                                                                                       |
| Address Of Customer | "Proposed Residential & Commercial Scheme",<br>S.No.98/1(P) 98/2, 99/1, 99/2(P), 99/3(P), 99/4(P),101/2(P)<br>& 101/3 At Vill - Maan, Tal - Mulshi, Dist - Pune |
| Report Dated        | 11/08/2021                                                                                                                                                      |
| Date Of Sampling    | Vendor on 04/08/2021 & 05/08/2021                                                                                                                               |
| Date Of Analysis    | 04/08/2021 & 05/08/2021                                                                                                                                         |
| Monitoring For      | Ambient Noise Monitoring                                                                                                                                        |
| Sampling Location   | Vehicle Movement Gate                                                                                                                                           |
| Limits*             | Maharashtra Pollution Control Board has prescribed 55 dB(A)<br>as an upper limit of Noise Level during day time & 45 dB(A)<br>during Night time                 |
| Time Of Sampling    | 1) Day time shall mean from 06:00 A.M. to 10:00 P.M.<br>2) Night time shall mean from 10:00 P.M. to 06:00 A.M                                                   |

### RESULTS OF ANALYSIS

| TIME       | UNIT  | READINGS | MPCB LIMITS |
|------------|-------|----------|-------------|
| 06:00 A.M. | dB(A) | 44.3     | 55          |
| 07:00 A.M. | dB(A) | 46.8     | 55          |
| 08:00 A.M. | dB(A) | 45.9     | 55          |
| 09:00 A.M. | dB(A) | 47.7     | 55          |
| 10:00 A.M. | dB(A) | 48.5     | 55          |
| 11:00 A.M. | dB(A) | 49.3     | 55          |
| 12:00 P.M. | dB(A) | 51.1     | 55          |
| 13:00 P.M. | dB(A) | 52.2     | 55          |



| TIME       | UNIT  | READINGS | MPCB LIMITS |
|------------|-------|----------|-------------|
| 14:00 P.M. | dB(A) | 52.6     | 55          |
| 15:00 P.M. | dB(A) | 54.8     | 55          |
| 16:00 P.M. | dB(A) | 51.7     | 55          |
| 17:00 P.M. | dB(A) | 53.5     | 55          |
| 18:00 P.M. | dB(A) | 50.1     | 55          |
| 19:00 P.M. | dB(A) | 49.9     | 55          |
| 20:00 P.M. | dB(A) | 53.2     | 55          |
| 21:00 P.M. | dB(A) | 52.3     | 55          |
| 22:00 P.M. | dB(A) | 42.5     | 45          |
| 23:00 P.M. | dB(A) | 43.6     | 45          |
| 00:00 A.M. | dB(A) | 42.7     | 45          |
| 01:00 A.M. | dB(A) | 44.8     | 45          |
| 02:00 A.M. | dB(A) | 41.9     | 45          |
| 03:00 A.M. | dB(A) | 43.5     | 45          |
| 04:00 A.M. | dB(A) | 40.3     | 45          |
| 05:00 A.M. | dB(A) | 41.2     | 45          |

**REMARK/OBSERVATIONS:** Ambient Air Quality Standard in respect to Noise

| Area code | Category of Area/Zone | Limits in dB (A) Leq* | Limits in dB (A) Leq* |
|-----------|-----------------------|-----------------------|-----------------------|
|           |                       | Day Time              | Night Time            |
| (A)       | Industrial Area       | 75                    | 70                    |
| (B)       | Commercial Area       | 65                    | 55                    |
| (C)       | Residential Area      | 55                    | 45                    |
| (D)       | Silence Zone          | 50                    | 40                    |

1. Silence Zone is defined as an area comprising not less than 100 meters around hospitals, educational institute and courts. The silence zones are zones which are declared as such by the competent authority.
2. Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.

\*dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.

For **GREEN ENVIRO**

*Sm Joshi*

Govt. Analyst



## AMBIENT NOISE MONITORING ANALYSIS REPORT

### TEST REPORT

|                     |                                                                                                                                                                 |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sample/Report No.   | GE/LAB/ANM/JSHPL5                                                                                                                                               |
| Name Of Customer    | M/s. Joyville Shapoorji Housing Pvt. Ltd.                                                                                                                       |
| Address Of Customer | "Proposed Residential & Commercial Scheme",<br>S.No.98/1(P) 98/2, 99/1, 99/2(P), 99/3(P), 99/4(P),101/2(P)<br>& 101/3 At Vill - Maan, Tal - Mulshi, Dist - Pune |
| Report Dated        | 11/08/2021                                                                                                                                                      |
| Date Of Sampling    | Vendor on 04/08/2021 & 05/08/2021                                                                                                                               |
| Date Of Analysis    | 04/08/2021 & 05/08/2021                                                                                                                                         |
| Monitoring For      | Ambient Noise Monitoring                                                                                                                                        |
| Sampling Location   | Back Side of Site                                                                                                                                               |
| Limits*             | Maharashtra Pollution Control Board has prescribed 55 dB(A)<br>as an upper limit of Noise Level during day time & 45 dB(A)<br>during Night time                 |
| Time Of Sampling    | 1) Day time shall mean from 06:00 A.M. to 10:00 P.M.<br>2) Night time shall mean from 10:00 P.M. to 06:00 A.M                                                   |

### RESULTS OF ANALYSIS

| TIME       | UNIT  | READINGS | MPCB LIMITS |
|------------|-------|----------|-------------|
| 06:00 A.M. | dB(A) | 42.3     | 55          |
| 07:00 A.M. | dB(A) | 44.6     | 55          |
| 08:00 A.M. | dB(A) | 41.9     | 55          |
| 09:00 A.M. | dB(A) | 46.7     | 55          |
| 10:00 A.M. | dB(A) | 47.4     | 55          |
| 11:00 A.M. | dB(A) | 48.5     | 55          |
| 12:00 P.M. | dB(A) | 49.3     | 55          |
| 13:00 P.M. | dB(A) | 52.1     | 55          |



| TIME       | UNIT  | READINGS | MPCB LIMITS |
|------------|-------|----------|-------------|
| 14:00 P.M. | dB(A) | 51.5     | 55          |
| 15:00 P.M. | dB(A) | 53.2     | 55          |
| 16:00 P.M. | dB(A) | 52.8     | 55          |
| 17:00 P.M. | dB(A) | 50.3     | 55          |
| 18:00 P.M. | dB(A) | 53.4     | 55          |
| 19:00 P.M. | dB(A) | 54.6     | 55          |
| 20:00 P.M. | dB(A) | 48.2     | 55          |
| 21:00 P.M. | dB(A) | 49.7     | 55          |
| 22:00 P.M. | dB(A) | 44.9     | 45          |
| 23:00 P.M. | dB(A) | 41.8     | 45          |
| 00:00 A.M. | dB(A) | 43.7     | 45          |
| 01:00 A.M. | dB(A) | 42.5     | 45          |
| 02:00 A.M. | dB(A) | 40.3     | 45          |
| 03:00 A.M. | dB(A) | 41.2     | 45          |
| 04:00 A.M. | dB(A) | 40.7     | 45          |
| 05:00 A.M. | dB(A) | 42.1     | 45          |

**REMARK/OBSERVATIONS:** Ambient Air Quality Standard in respect to Noise

| Area code | Category of Area/Zone | Limits in dB (A) Leq* | Limits in dB (A) Leq* |
|-----------|-----------------------|-----------------------|-----------------------|
|           |                       | Day Time              | Night Time            |
| (A)       | Industrial Area       | 75                    | 70                    |
| (B)       | Commercial Area       | 65                    | 55                    |
| (C)       | Residential Area      | 55                    | 45                    |
| (D)       | Silence Zone          | 50                    | 40                    |

1. Silence Zone is defined as an area comprising not less than 100 meters around hospitals, educational institute and courts. The silence zones are zones which are declared as such by the competent authority.
2. Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.

\*dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.

For **GREEN ENVIRO**

*Sm Joshi*

Govt. Analyst





## SOURCE EMISSION MONITORING ANALYSIS REPORT

|                  |                                                                                                                                                                 |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CLIENT'S NAME    | M/s. Joyville Shapoorji Housing Pvt. Ltd.                                                                                                                       |
| CLIENT'S ADDRESS | "Proposed Residential & Commercial Scheme",<br>S.No.98/1(P) 98/2, 99/1, 99/2(P), 99/3(P), 99/4(P),<br>101/2(P) & 101/3, At Vill- Maan, Tal- Mulshi, Dist - Pune |
| REPORT NO.       | GE/LAB/A/JSHPL1                                                                                                                                                 |
| DATED            | 11/08/2021                                                                                                                                                      |
| LAB REFERENCE NO | GE/LAB/A/JSHPL01                                                                                                                                                |
| DATE OF SAMPLING | 04/08/2021                                                                                                                                                      |
| DATE OF ANALYSIS | 05/08/2021                                                                                                                                                      |

### RESULTS OF ANALYSIS

| Test Description         | Unit                | Result                               | Limits | Method Of Analysis        |
|--------------------------|---------------------|--------------------------------------|--------|---------------------------|
| Nature of sample         | ----                | Stack Monitoring<br>(DG Set 320 KVA) |        |                           |
| Duration Of Sampling     | Min                 | 20                                   |        |                           |
| Material Of Stack        | ----                | MS                                   |        |                           |
| Stack Height From G.L.   | Mtr                 | 3.5                                  |        |                           |
| Shape Of Stack           | ----                | Round                                |        |                           |
| Flue Gas Temperature     | Deg C               | 51                                   |        |                           |
| Average Velocity         | M/Sec               | 4.90                                 |        |                           |
| Fuel Consumption         | ----                | HSD                                  |        |                           |
| Fuel Consumption         | Lit/Hr              | 15                                   |        |                           |
| Gas Volume               | NM <sup>3</sup> /Hr | 482.24                               |        |                           |
| Diameter                 | (M)                 | 0.17                                 |        |                           |
| Cross Sectional Area     | (M <sup>2</sup> )   | 0.0303                               |        |                           |
| Total Particulate Matter | Mg/NM <sup>3</sup>  | 50.23                                | 150    | IS11255 (part 1)1985,2014 |
| Sulphur Dioxide          | Kg/Day              | 4.17                                 | N.S.   | IS11255 (part 2)1985,2014 |

N.S. - Not Specified

**REMARK/OBSERVATIONS:** Monitoring results are well within the limits prescribed by MPCB.

For **GREEN ENVIRO**

*Sm Joshi*

Govt. Analyst





## DG NOISE MONITORING ANALYSIS REPORT

### TEST REPORT

|                     |                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sample/Report No.   | GE/LAB/DGNM/JSHPL1                                                                                                                                                                                                                                                                                                                                                                                    |
| Name Of Customer    | M/s. Joyville Shapoorji Housing Pvt. Ltd.                                                                                                                                                                                                                                                                                                                                                             |
| Address Of Customer | "Proposed Residential & Commercial Scheme",<br>S.No.98/1(P) 98/2, 99/1, 99/2(P), 99/3(P), 99/4(P),<br>101/2(P) &101/3 At Vill- Maan, Tal- Mulshi, Pune                                                                                                                                                                                                                                                |
| Report Dated        | 11/08/2021                                                                                                                                                                                                                                                                                                                                                                                            |
| Date Of Sampling    | Vendor on 04/08/2021                                                                                                                                                                                                                                                                                                                                                                                  |
| Date Of Analysis    | 04/08/2021                                                                                                                                                                                                                                                                                                                                                                                            |
| Monitoring For      | DG Noise Monitoring                                                                                                                                                                                                                                                                                                                                                                                   |
| Sampling Location   | <b>DG Set - 320 KVA</b>                                                                                                                                                                                                                                                                                                                                                                               |
| Limits*             | 1) Maharashtra Pollution Control Board has prescribed in consent, acoustic enclosure / acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standard, whichever is on higher side.<br>2) Maharashtra Pollution Control Board has prescribed 75 dB(A) as an upper limit of Noise Level during day time & 70 dB(A) during Night time |
| Time Of Sampling    | 1) Day time shall mean from 06:00 A.M. to 10:00 P.M.<br>2) Night time shall mean from 10:00 P.M. to 06:00 A.M                                                                                                                                                                                                                                                                                         |

### RESULTS OF ANALYSIS

| Description             | Test Location                                                    | Unit  | READINGS               |                          | Insertion Loss $\geq 25$ Db |                          |
|-------------------------|------------------------------------------------------------------|-------|------------------------|--------------------------|-----------------------------|--------------------------|
|                         |                                                                  |       | 12:00 Hrs.<br>Day Time | 22:00 Hrs.<br>Night Time | 12:00 Hrs.<br>Day Time      | 20:10 Hrs.<br>Night Time |
| <b>DG Set (320 KVA)</b> | DG Set #320KVA<br>Inside Acoustic Enclosure                      | dB(A) | 97.0                   | 92.1                     | 25.9                        | 26.1                     |
|                         | DG Set #320KVA<br>Outside Acoustic Enclosure from 0.5 meter away | dB(A) | 71.1                   | 66.0                     |                             |                          |

**REMARK/OBSERVATIONS:** All above Results are within MPCB Limits.

For **GREEN ENVIRO**

*Sm Joshi*

**Govt. Analyst**



## DRINKING WATER QUALITY MONITORING ANALYSIS REPORT

|                                    |                                                                                                                                                       |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CLIENT'S NAME</b>               | M/s. Joyville Shapoorji Housing Pvt. Ltd.                                                                                                             |
| <b>CLIENT'S ADDRESS</b>            | "Proposed Residential & Commercial Scheme",<br>S.No.98/1(P) 98/2, 99/1, 99/2(P), 99/3(P), 99/4(P),<br>101/2(P)&101/3 At Vill- Maan, Tal- Mulshi, Pune |
| Report No: - GE/LAB/W/JSHPL01      | Dated:- 11/08/2021                                                                                                                                    |
| Lab Reference No: GE/LAB/W/JSHPL01 | Date Of Sampling: - 04/08/2021                                                                                                                        |
| Date Of Analysis: - 05/08/2021     | Details Of Sample : Drinking Water Sample -<br>Office Drinking Water                                                                                  |
| Sample Collected By – Green Enviro | Sample Container – Sterilized Bottle                                                                                                                  |

### RESULTS OF ANALYSIS

| Parameter              | Unit   | Result    | Standard :<br>(IS 10500:2012) | Method Of Analysis                           |
|------------------------|--------|-----------|-------------------------------|----------------------------------------------|
| pH                     | Value  | 7.42      | 6.5 - 8.5                     | IS 3025 (Part II) 1983,<br>Reaff: 2017       |
| Total Dissolved Solids | mg/lit | 61.84     | 500                           | IS 3025 (Part XVI) 1984,<br>Reaff: 2017      |
| Total Suspended Solids | mg/lit | 06.69     | Not Specified                 | IS 3025 (Part XVII)<br>1984, Reaff- 2017     |
| Colour                 | ----   | Colorless | Colorless                     | IS 3025 (Part IV ) 1983                      |
| Odour                  | ----   | Odorless  | Odorless                      | APHA 23 <sup>rd</sup> Edition(Part<br>2150B) |
| Turbidity              | NTU    | < 0.56    | < 5                           | IS 3025 (Part X) 1984,<br>Reaff: 2017        |
| Total Hardness         | mg/lit | 39.97     | 200                           | IS 3025 (Part XXI) 2009,<br>Reaff: 2019      |
| Calcium Hardness       | mg/lit | 22.34     | Not Specified                 | IS 3025 (Part 40) 1991,<br>Reaff: 2019       |
| Magnesium Hardness     | mg/lit | 17.63     | Not Specified                 | IS 3025 (Part 46) 1994,<br>Reaff: 2019       |
| Chloride               | mg/lit | 14.51     | 250                           | IS 3025 (Part 32) 1998,<br>Reaff: 2019       |



## DRINKING WATER QUALITY MONITORING ANALYSIS REPORT

| Parameter                    | Unit   | Result | Standard:<br>(IS10500:2012) | Method Of Analysis                                                        |
|------------------------------|--------|--------|-----------------------------|---------------------------------------------------------------------------|
| Sulphate                     | mg/lit | 13.49  | 200                         | IS 3025 (Part 24) 1986, Reaff: 2019                                       |
| Total alkalinity             | mg/lit | 81.67  | 200                         | IS 3025 (Part 23) 1986, Reaff: 2019                                       |
| Fluoride                     | mg/lit | Absent | 1.0                         | IS 3025 (Part 60) 2008                                                    |
| Nitrates                     | mg/lit | Absent | 45                          | APHA 23 <sup>rd</sup> Edition, (Part 4500-NO <sub>3</sub> <sup>-</sup> B) |
| Cyanide                      | mg/lit | Absent | 0.05                        | APHA 23 <sup>rd</sup> Edition, (Part 4500-CN <sup>-</sup> C)              |
| Residual free chlorine       | mg/lit | Absent | 0.2                         | APHA 23 <sup>rd</sup> Edition, (Part 4500-Cl B)                           |
| Copper                       | mg/lit | Absent | Max 0.05                    | IS:3025 (Part 42) 1992, Reaff: 2019                                       |
| Mercury                      | mg/lit | Absent | Max 0.001                   | APHA 23 <sup>rd</sup> Edition, (Part 3500Hg)                              |
| Cadmium                      | mg/lit | Absent | Max 0.003                   | APHA 23 <sup>rd</sup> Edition, (Part 3500-Cd)                             |
| Lead                         | mg/lit | Absent | Max 0.01                    | IS 3025 (Part 47) 1994, Reaff: 2019                                       |
| Zinc                         | mg/lit | Absent | 5.0                         | IS 3025 (Part 49) 1994, Reaff: 2019                                       |
| Coliform Organism            | mg/lit | Absent | Not Specified               | IS: 1622 – 1981                                                           |
| Nickel                       | mg/lit | Absent | Max 0.02                    | IS 3025 (Part 54) 2003, Reaff: 2019,                                      |
| Polychlorinated biphenyls    | mg/lit | Absent | 0.0005                      | APHA 23 <sup>rd</sup> Edition, (Part 6431 B)                              |
| Total chromium               | mg/lit | Absent | Max 0.05                    | APHA 23 <sup>rd</sup> Edition, (Part 3111B)                               |
| Total arsenic                | mg/lit | Absent | Max 0.01                    | APHA 23 <sup>rd</sup> Edition, (Part 3500-As B)                           |
| Aluminium                    | mg/lit | Absent | Max 0.03                    | APHA 23 <sup>rd</sup> Edition, (Part 3111 D)                              |
| Ammonia(as total ammonia- N) | mg/lit | Absent | Not Specified               | APHA 23 <sup>rd</sup> Edition, (Part 4500-NH 3C)                          |
| Boron                        | mg/lit | Absent | Max 0.5                     | APHA 23 <sup>rd</sup> Edition, (Part 4500-B C)                            |
| Silver                       | mg/lit | Absent | 0.1                         | APHA 16 <sup>th</sup> Edition, (Part 324B)                                |
| Sulphide                     | mg/lit | Absent | 0.05                        | APHA 23 <sup>rd</sup> Edition, (part 4500-D)                              |





## DRINKING WATER QUALITY MONITORING ANALYSIS REPORT

| Parameter               | Unit   | Result | Standard:<br>(IS10500:2012) | Method Of Analysis                                             |
|-------------------------|--------|--------|-----------------------------|----------------------------------------------------------------|
| Mineral oil             | mg/lit | Nil    | 0.05                        | IS 3025 (Part 39)                                              |
| Anionic detergents      | mg/lit | Nil    | Max 0.2                     | APHA 23 <sup>rd</sup> Edition, (Part 5540 C)                   |
| Chloramines             | mg/lit | Nil    | Max 4.0                     | APHA 23 <sup>rd</sup> Edition, (Part 4500-Cl G)                |
| Selenium                | mg/lit | Nil    | Max 0.01                    | APHA 23 <sup>rd</sup> Edition, (Part 3500-Se C)                |
| DDT                     | µg/lit | Nil    | 1.0                         | APHA 23 <sup>rd</sup> Edition, (Part 6630C)                    |
| 2,4 D                   | µg/lit | Nil    | 3.0                         | APHA 23 <sup>rd</sup> Edition, (Part 6630C)                    |
| Gamma-HCH<br>(Lindane)  | µg/lit | Nil    | 2.0                         | APHA 23 <sup>rd</sup> Edition, (Part 6630C)                    |
| Endosulfan              | µg/lit | Nil    | 0.4                         | APHA 23 <sup>rd</sup> Edition, (Part 6630C)                    |
| Atrazine                | µg/lit | Nil    | 2.0                         | APHA 23 <sup>rd</sup> Edition, (Part 6630C)                    |
| Reactive Silica         | ppm    | Nil    | 0.02                        | APHA 23 <sup>rd</sup> Edition, (Part 4500- SiO <sub>2</sub> D) |
| Sodium                  | mg/lit | BDL    | Not Specified               | APHA 23 <sup>rd</sup> Edition, (Part 3500 Na B)                |
| Potassium               | mg/lit | BDL    | Not Specified               | APHA 23 <sup>rd</sup> Edition, (Part 3500-K B)                 |
| Phosphorous             | mg/lit | BDL    | Not Specified               | IS 3025 (Part 31) 1988, Reaff – 2019                           |
| Iron                    | mg/lit | Nil    | 0.3                         | IS 3025 (Part 53) 2003, Reaff – 2019                           |
| Most Probable<br>Number | /100ml | Absent | 0/100ml                     | IS: 1622 – 1981, Multiple tube<br>technique                    |
| E. coli                 | /100ml | Absent | 0-1/100ml                   | IS: 5887 -1 & IS15186:2002 Multiple<br>tube technique          |
| Total Coliform          | /100ml | Absent | 0-1/100ml                   | IS:1622-1981, Multiple tube technique                          |
| Total Viable Count      | /100ml | Absent | 0-1/100ml                   | IS: 5402 : 2012                                                |
| Fecal                   | /100ml | Absent | 0-1/100ml                   | APHA 23 <sup>rd</sup> Edition Part 9230- B, Page<br>9-118      |

• BDL: - Below Detection Limits

For **GREEN ENVIRO**

*Sm Joshi*

**Govt. Analyst**



## DRINKING WATER QUALITY MONITORING ANALYSIS REPORT

|                                    |                                                                                                                                                       |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CLIENT'S NAME</b>               | M/s. Joyville Shapoorji Housing Pvt. Ltd.                                                                                                             |
| <b>CLIENT'S ADDRESS</b>            | "Proposed Residential & Commercial Scheme",<br>S.No.98/1(P) 98/2, 99/1, 99/2(P), 99/3(P), 99/4(P),<br>101/2(P)&101/3 At Vill- Maan, Tal- Mulshi, Pune |
| Report No: - GE/LAB/W/JSHPL02      | Dated:- 11/08/2021                                                                                                                                    |
| Lab Reference No:GE/LAB/W/JSHPL02  | Date Of Sampling: - 04/08/2021                                                                                                                        |
| Date Of Analysis: - 05/08/2021     | Details Of Sample : Drinking Water Sample -<br>Labour Colony R O Water                                                                                |
| Sample Collected By – Green Enviro | Sample Container – Sterilized Bottle                                                                                                                  |

### RESULTS OF ANALYSIS

| Parameter              | Unit   | Result    | Standard :<br>(IS 10500:2012) | Method Of Analysis                           |
|------------------------|--------|-----------|-------------------------------|----------------------------------------------|
| pH                     | Value  | 7.30      | 6.5 - 8.5                     | IS 3025 (Part II) 1983,<br>Reaff: 2017       |
| Total Dissolved Solids | mg/lit | 55.26     | 500                           | IS 3025 (Part XVI) 1984,<br>Reaff: 2017      |
| Total Suspended Solids | mg/lit | 06.04     | Not Specified                 | IS 3025 (Part XVII)<br>1984, Reaff- 2017     |
| Colour                 | ----   | Colorless | Colorless                     | IS 3025 (Part IV ) 1983                      |
| Odour                  | ----   | Odorless  | Odorless                      | APHA 23 <sup>rd</sup> Edition(Part<br>2150B) |
| Turbidity              | NTU    | < 0.49    | < 5                           | IS 3025 (Part X) 1984,<br>Reaff: 2017        |
| Total Hardness         | mg/lit | 35.81     | 200                           | IS 3025 (Part XXI) 2009,<br>Reaff: 2019      |
| Calcium Hardness       | mg/lit | 20.35     | Not Specified                 | IS 3025 (Part 40) 1991,<br>Reaff: 2019       |
| Magnesium Hardness     | mg/lit | 15.46     | Not Specified                 | IS 3025 (Part 46) 1994,<br>Reaff: 2019       |
| Chloride               | mg/lit | 12.24     | 250                           | IS 3025 (Part 32) 1998,<br>Reaff: 2019       |





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| Parameter                    | Unit   | Result | Standard:<br>(IS10500:2012) | Method Of Analysis                                                        |
|------------------------------|--------|--------|-----------------------------|---------------------------------------------------------------------------|
| Sulphate                     | mg/lit | 10.62  | 200                         | IS 3025 (Part 24) 1986, Reaff: 2019                                       |
| Total alkalinity             | mg/lit | 73.81  | 200                         | IS 3025 (Part 23) 1986, Reaff: 2019                                       |
| Fluoride                     | mg/lit | Absent | 1.0                         | IS 3025 (Part 60) 2008                                                    |
| Nitrates                     | mg/lit | Absent | 45                          | APHA 23 <sup>rd</sup> Edition, (Part 4500-NO <sub>3</sub> <sup>-</sup> B) |
| Cyanide                      | mg/lit | Absent | 0.05                        | APHA 23 <sup>rd</sup> Edition, (Part 4500-CN <sup>-</sup> C)              |
| Residual free chlorine       | mg/lit | Absent | 0.2                         | APHA 23 <sup>rd</sup> Edition, (Part 4500-Cl B)                           |
| Copper                       | mg/lit | Absent | Max 0.05                    | IS:3025 (Part 42) 1992, Reaff: 2019                                       |
| Mercury                      | mg/lit | Absent | Max 0.001                   | APHA 23 <sup>rd</sup> Edition, (Part 3500Hg)                              |
| Cadmium                      | mg/lit | Absent | Max 0.003                   | APHA 23 <sup>rd</sup> Edition, (Part 3500-Cd)                             |
| Lead                         | mg/lit | Absent | Max 0.01                    | IS 3025 (Part 47) 1994, Reaff: 2019                                       |
| Zinc                         | mg/lit | Absent | 5.0                         | IS 3025 (Part 49) 1994, Reaff: 2019                                       |
| Coliform Organism            | mg/lit | Absent | Not Specified               | IS: 1622 – 1981                                                           |
| Nickel                       | mg/lit | Absent | Max 0.02                    | IS 3025 (Part 54) 2003, Reaff: 2019,                                      |
| Polychlorinated biphenyls    | mg/lit | Absent | 0.0005                      | APHA 23 <sup>rd</sup> Edition, (Part 6431 B)                              |
| Total chromium               | mg/lit | Absent | Max 0.05                    | APHA 23 <sup>rd</sup> Edition, (Part 3111B)                               |
| Total arsenic                | mg/lit | Absent | Max 0.01                    | APHA 23 <sup>rd</sup> Edition, (Part 3500-As B)                           |
| Aluminium                    | mg/lit | Absent | Max 0.03                    | APHA 23 <sup>rd</sup> Edition, (Part 3111 D)                              |
| Ammonia(as total ammonia- N) | mg/lit | Absent | Not Specified               | APHA 23 <sup>rd</sup> Edition, (Part 4500-NH 3C)                          |
| Boron                        | mg/lit | Absent | Max 0.5                     | APHA 23 <sup>rd</sup> Edition, (Part 4500-B C)                            |
| Silver                       | mg/lit | Absent | 0.1                         | APHA 16 <sup>th</sup> Edition, (Part 324B)                                |
| Sulphide                     | mg/lit | Absent | 0.05                        | APHA 23 <sup>rd</sup> Edition, (part 4500-D)                              |



## DRINKING WATER QUALITY MONITORING ANALYSIS REPORT

| Parameter               | Unit   | Result | Standard:<br>(IS10500:2012) | Method Of Analysis                                             |
|-------------------------|--------|--------|-----------------------------|----------------------------------------------------------------|
| Mineral oil             | mg/lit | Nil    | 0.05                        | IS 3025 (Part 39)                                              |
| Anionic detergents      | mg/lit | Nil    | Max 0.2                     | APHA 23 <sup>rd</sup> Edition, (Part 5540 C)                   |
| Chloramines             | mg/lit | Nil    | Max 4.0                     | APHA 23 <sup>rd</sup> Edition, (Part 4500-Cl G)                |
| Selenium                | mg/lit | Nil    | Max 0.01                    | APHA 23 <sup>rd</sup> Edition, (Part 3500-Se C)                |
| DDT                     | µg/lit | Nil    | 1.0                         | APHA 23 <sup>rd</sup> Edition, (Part 6630C)                    |
| 2,4 D                   | µg/lit | Nil    | 3.0                         | APHA 23 <sup>rd</sup> Edition, (Part 6630C)                    |
| Gamma-HCH<br>(Lindane)  | µg/lit | Nil    | 2.0                         | APHA 23 <sup>rd</sup> Edition, (Part 6630C)                    |
| Endosulfan              | µg/lit | Nil    | 0.4                         | APHA 23 <sup>rd</sup> Edition, (Part 6630C)                    |
| Atrazine                | µg/lit | Nil    | 2.0                         | APHA 23 <sup>rd</sup> Edition, (Part 6630C)                    |
| Reactive Silica         | Ppm    | Nil    | 0.02                        | APHA 23 <sup>rd</sup> Edition, (Part 4500- SiO <sub>2</sub> D) |
| Sodium                  | mg/lit | BDL    | Not Specified               | APHA 23 <sup>rd</sup> Edition, (Part 3500 Na B)                |
| Potassium               | mg/lit | BDL    | Not Specified               | APHA 23 <sup>rd</sup> Edition, (Part 3500-K B)                 |
| Phosphorous             | mg/lit | BDL    | Not Specified               | IS 3025 (Part 31) 1988, Reaff – 2019                           |
| Iron                    | mg/lit | Nil    | 0.3                         | IS 3025 (Part 53) 2003, Reaff – 2019                           |
| Most Probable<br>Number | /100ml | Absent | 0/100ml                     | IS: 1622 – 1981, Multiple tube<br>technique                    |
| E. coli                 | /100ml | Absent | 0-1/100ml                   | IS: 5887 -1 & IS15186:2002 Multiple<br>tube technique          |
| Total Coliform          | /100ml | Absent | 0-1/100ml                   | IS:1622-1981, Multiple tube technique                          |
| Total Viable Count      | /100ml | Absent | 0-1/100ml                   | IS: 5402 : 2012                                                |
| Fecal                   | /100ml | Absent | 0-1/100ml                   | APHA 23 <sup>rd</sup> Edition Part 9230- B, Page<br>9-118      |

● BDL: - Below Detection Limits

For **GREEN ENVIRO**

*Sm Joshi*

**Govt. Analyst**



## SOIL ANALYSIS REPORT

| <b>CLIENT'S NAME</b>                |                        |       | <b>M/s. Joyville Shapoorji Housing Pvt. Ltd.</b>                                                                                                      |                              |
|-------------------------------------|------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| <b>CLIENT'S ADDRESS</b>             |                        |       | "Proposed Residential & Commercial Scheme",<br>S.No.98/1(P) 98/2, 99/1, 99/2(P), 99/3(P), 99/4(P),<br>101/2(P)&101/3 At Vill- Maan, Tal- Mulshi, Pune |                              |
| Report No: - GE/LAB/S/JSHPL1        |                        |       | Dated:- 11/08/2021                                                                                                                                    |                              |
| Lab Reference No: GE/LAB/S/ JSHPL01 |                        |       | Date Of Sampling: - 04/08/2021                                                                                                                        |                              |
| Date Of Analysis: - 05/08/2021      |                        |       | Details Of Sample- Soil Sample Near Stores Soil                                                                                                       |                              |
| Sample Collected By – Green Enviro  |                        |       | Sample Container – Zip Lock Plastic Bag                                                                                                               |                              |
| Sr. no                              | Parameter              | Unit  | Result                                                                                                                                                | Method Of Analysis           |
| 01                                  | Appearance             | ----  | Medium Blackish                                                                                                                                       | -                            |
| 02                                  | Texture                |       |                                                                                                                                                       |                              |
| A                                   | Clay                   | %     | 66.25                                                                                                                                                 | Method manual soil testing   |
| B                                   | Silt                   | %     | 11.59                                                                                                                                                 | Method manual soil testing   |
| C                                   | Sand                   | %     | 13.47                                                                                                                                                 | Method manual soil testing   |
| D                                   | Gravel                 | %     | 8.69                                                                                                                                                  | Method manual soil testing   |
| 03                                  | pH                     | Value | 7.23                                                                                                                                                  | IS 2720 Part -26 1987 RA2002 |
| 04                                  | Moisture Content       | %     | 39.90                                                                                                                                                 | IS 15106 2002                |
| 05                                  | Conductivity           | mmhos | 0.3461                                                                                                                                                | IS 14767 : 2000              |
| 06                                  | Water holding Capacity | %     | 42.57                                                                                                                                                 | IS 14765 2000                |
| 07                                  | Copper as Cu           | mg/kg | 0.754                                                                                                                                                 | IS 6092 Part- 5 1985         |
| 08                                  | Zinc as Zn             | mg/kg | 1.562                                                                                                                                                 | IS 6092 Part- 5 1985         |
| 09                                  | Lead as Pb             | mg/kg | 1.864                                                                                                                                                 | IS 6092 Part- 5 1985         |
| 10                                  | Cadmium as Cd          | mg/kg | BDL                                                                                                                                                   | IS 6092 Part- 5 1985         |
| 11                                  | Iron as Fe             | mg/kg | 2.653                                                                                                                                                 | IS 6092 Part- 5 1985         |
| 12                                  | Manganese as Mn        | mg/kg | 1.583                                                                                                                                                 | IS 6092 Part- 5 1985         |
| 13                                  | Aluminium as Al        | mg/kg | BDL                                                                                                                                                   | IS 6092 Part- 5 1985         |
| 14                                  | Tin as Sn              | mg/kg | 0.035                                                                                                                                                 | IS 6092 Part- 5 1985         |
| 15                                  | Arsenic as As          | mg/kg | Nil                                                                                                                                                   | IS 6092 Part- 5 1985         |
| 16                                  | Phosphorous as P       | mg/kg | 08.18                                                                                                                                                 | IS 6092 (Part 3) 2004        |
| 17                                  | Total Nitrogen as N    | mg/kg | 9273                                                                                                                                                  | Method manual soil testing   |
| 18                                  | Potassium as K         | mg/kg | 189.35                                                                                                                                                | IS 2799 -1980                |
| 19                                  | Sodium as Na           | mg/kg | BDL                                                                                                                                                   | IS 2799 -1980                |

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## SOIL ANALYSIS REPORT

| <b>CLIENT'S NAME</b>                |                        |       | <b>M/s. Joyville Shapoorji Housing Pvt. Ltd.</b>                                                                                                      |                              |
|-------------------------------------|------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| <b>CLIENT'S ADDRESS</b>             |                        |       | "Proposed Residential & Commercial Scheme",<br>S.No.98/1(P) 98/2, 99/1, 99/2(P), 99/3(P), 99/4(P),<br>101/2(P)&101/3 At Vill- Maan, Tal- Mulshi, Pune |                              |
| Report No: - GE/LAB/S/ JSHPL2       |                        |       | Dated:- 11/08/2021                                                                                                                                    |                              |
| Lab Reference No: GE/LAB/S/ JSHPL02 |                        |       | Date Of Sampling: - 04/08/2021                                                                                                                        |                              |
| Date Of Analysis: - 05/08/2021      |                        |       | Details Of Sample- Soil Sample Preserve Black Soil                                                                                                    |                              |
| Sample Collected By – Green Enviro  |                        |       | Sample Container – Zip Lock Plastic Bag                                                                                                               |                              |
| Sr. no                              | Parameter              | Unit  | Result                                                                                                                                                | Method Of Analysis           |
| 01                                  | Appearance             | ----  | Dark Black                                                                                                                                            | -                            |
| 02                                  | Texture                |       |                                                                                                                                                       |                              |
| A                                   | Clay                   | %     | 63.07                                                                                                                                                 | Method manual soil testing   |
| B                                   | Silt                   | %     | 14.26                                                                                                                                                 | Method manual soil testing   |
| C                                   | Sand                   | %     | 16.35                                                                                                                                                 | Method manual soil testing   |
| D                                   | Gravel                 | %     | 6.32                                                                                                                                                  | Method manual soil testing   |
| 03                                  | pH                     | Value | 7.54                                                                                                                                                  | IS 2720 Part -26 1987 RA2002 |
| 04                                  | Moisture Content       | %     | 36.48                                                                                                                                                 | IS 15106 2002                |
| 05                                  | Conductivity           | Mmhos | 0.3256                                                                                                                                                | IS 14767 : 2000              |
| 06                                  | Water holding Capacity | %     | 40.13                                                                                                                                                 | IS 14765 2000                |
| 07                                  | Copper as Cu           | mg/kg | 0.622                                                                                                                                                 | IS 6092 Part- 5 1985         |
| 08                                  | Zinc as Zn             | mg/kg | 0.843                                                                                                                                                 | IS 6092 Part- 5 1985         |
| 09                                  | Lead as Pb             | mg/kg | 9.832                                                                                                                                                 | IS 6092 Part- 5 1985         |
| 10                                  | Cadmium as Cd          | mg/kg | BDL                                                                                                                                                   | IS 6092 Part- 5 1985         |
| 11                                  | Iron as Fe             | mg/kg | 2.088                                                                                                                                                 | IS 6092 Part- 5 1985         |
| 12                                  | Manganese as Mn        | mg/kg | 1.496                                                                                                                                                 | IS 6092 Part- 5 1985         |
| 13                                  | Aluminium as Al        | mg/kg | BDL                                                                                                                                                   | IS 6092 Part- 5 1985         |
| 14                                  | Tin as Sn              | mg/kg | 0.093                                                                                                                                                 | IS 6092 Part- 5 1985         |
| 15                                  | Arsenic as As          | mg/kg | Nil                                                                                                                                                   | IS 6092 Part- 5 1985         |
| 16                                  | Phosphorous as P       | mg/kg | 05.38                                                                                                                                                 | IS 6092 (Part 3) 2004        |
| 17                                  | Total Nitrogen as N    | mg/kg | 8851                                                                                                                                                  | Method manual soil testing   |
| 18                                  | Potassium as K         | mg/kg | 185.26                                                                                                                                                | IS 2799 -1980                |
| 19                                  | Sodium as Na           | mg/kg | BDL                                                                                                                                                   | IS 2799 -1980                |

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