

27<sup>th</sup> May 2023

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

**Subject: Half-yearly Compliance Report:**  
**October 2022 to March 2023**

**Project Lodha Dwellers Pvt. Ltd.**  
**"Lodha Casa Bella" "at villages Nilje, Usargbar , Katai &**  
**Ghesar ,Tal.Kalyan , Dist. Thane ( S.No.12/3 A 105 of village**  
**Usarghar, S.No.4/2, 4/7 of village Nilje , S.No.7/1A ,18/3**  
**of village Katai and S.No.2/7, 117/0 of village Ghesar,Tal.**  
**Kalyan, Dist. Thane**


**EC No. SEIAA-2019/CR-194/SEIAA Dated 22nd November, 2019**

Dear Sir,

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

Thanking you,  
Yours faithfully,

**For Macrotech Developers Ltd**  
**(Formerly known as Lodha Dwellers Pvt. Ltd.)**



**Project Proponent**

**Enclosure:** A hard copy of the compliance and monitoring report

**CC copy to:**

1. Regional officer, Maharashtra Pollution Control Board, Kalyan S.R.O-I
2. Member Secretary, Maharashtra Pollution Control Board, Sion, Mumbai
3. Member Secretary, State Environmental Impact Assessment Authority, Govt. of Maharashtra, Mumbai

**Lodha Dwellers Pvt. Ltd.**

# **Environmental Clearance Compliance Report**

October 2022 to March 2023

**"Casa Bella"**

At Nilje, Usarghar, Katai Kalyan, Thane

**(Environmental Clearance Letter No. SEIAA-2019/CR-194/SEIAA Dated 22<sup>nd</sup> November, 2019 & SEAC2011/CR 102/TC-2 Dated 3<sup>rd</sup> November 2012)**

**CONSULTANT**



**Mahabal Enviro Engineers Pvt. Ltd.**

Engineers, Consultants, Environmental Monitoring Laboratory & Contractors

F-7, Road 21, MIDC Wagle Estate, Thane-400604. Phone:022-25823154 [thane@mahabal.com](mailto:thane@mahabal.com)

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## Compliance Status of EC Conditions

**Environment Clearance SEIAA-2019/CR-194/SEIAA Dated. 22<sup>nd</sup> November, 2019 &  
SEAC 2011/CR 102/TC-2 Dated 3<sup>rd</sup> November 2012**

No	Condition	Compliance	☑	P
	<b>GENERAL CONDITIONS:</b>			
(i)	Plinth level shall be above 100 years HFL and should be at least at the level 100.5 m above MSL	Noted.		
(ii)	Soil erosion measures comprising appropriate soil binders, plant species etc. to reduce erosion during rainy season shall be undertaken.	PP had taken soil erosion measures comprising of plant species, and grasses to reduce erosion during rainy season.		
(iii)	Details of holding ponds, location capacity etc. shall be earmarked on the project layout.	PP are not providing holding pond for the project.		
(iv)	RWH shall be redesigned based on depth of ground water table and soil permeability specific to the project site and implement accordingly.	The provision of Roof top rain water harvesting through collection tank is made. The stored water is utilized for flushing purpose. The overflow of the tank is connected to the Municipal storm water drains. The storm water drains are constructed as per the		
(v)	Location of the common garbage collection points and garbage having compartments to receive dry, recyclable, non-recyclable separately shall be provided and indicated on the layout plan.	The common garbage collection points and garbage having compartments to receive dry, recyclable, non-recyclable separately is provided next to the STP room.		
(vi)	Details of the transportation methodology for garbage from source to disposal point and its management shall be followed as indicated.	Garbage from source to disposal point and its management is followed as indicated and transported outside using tractors.		
(vii)	Constitution of Federation and its role for providing & maintaining common environmental infrastructure shall be part of the conveyance deed.	There is constitution of federation and its role for providing & maintaining common environmental infrastructure is part of the conveyance deed.		
(viii)	Service road to be provided along the State highway from the site, to avoid direct access to the entry and exit.	Service road has been provided along the State highway from the site, to avoid direct access to the entry and exit.		
(ix)	Sufficient common public transport in the complex with adequate frequency to reduce traffic on the road shall be provided.	Sufficient Palava vehicles i.e., common public transport in the complex with adequate frequency to reduce traffic on the road are provided.		

No	Condition	Compliance	☑	P
(x)	Noise barrier and dense plantation belt in between railway line and the project site shall be provided.	Noise barrier and dense plantation belt in between railway line and the project site are provided.		
(xi)	Facilities for household workers, drivers, sweeper, gardeners etc. shall be provided within the complex.	Following facilities are provided for household workers, drivers, sweeper, gardeners etc. within the complex-Rest room, Toilets,		
(xii)	Public sanitation facilities for common use to public at appropriate places shall be provided.	Public sanitation facilities for common use to public at appropriate places are provided.		
(xiii)	No untreated sewage shall be discharged in the Desai River and a monitoring mechanism be put in place.	The sewage is treated in the STP having MBBR technology having capacity of 13,900 m <sup>3</sup> /day. The untreated sewage is not discharged in the Desai River.		
	<b>Besides this following general terms and conditions are applicable.</b>			
(i)	This environmental clearance is issued subject to land use verification. Local authority/ planning authority should ensure this with respect to Rules, Regulations Notifications, Government Resolutions, Circulars etc. issued if any. This environmental clearance issued with respect to the environmental consideration and it does not mean that State Level Impact Assessment Authority (SEIAA) approved the proposed land use.	The project comes under the planning of MMRDA (Mumbai Metropolitan Region Development Authority). The revalidation in environment clearance has been received from Government of Maharashtra dated 22.11.2019 The copy of the same is attached as annexure		
(ii)	The height, construction build 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 the 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 proposed project as per the approved development plan of the area.	The height, Construction built up area of the proposed construction is as per the approved plan.		

No	Condition	Compliance	☑	P
(iii)	"Consent for Establishment" shall be obtained from Maharashtra Pollution Control Board under Air and Water Act and a copy shall be submitted to the Environment department before start of any construction work at the site.	"Consent for Establishment" is obtained from Maharashtra Pollution Control Board dated 11.02.2016 C to E copy is attached	✓	
(iv)	All required sanitary and hygienic measures should be in place before starting construction activities and to be maintained throughout the construction phase.	Adequate sanitary and hygienic measures are provided. All of these is maintained in clean and operative condition.		
(v)	PP 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.	The occupation certificate for buildings have been received school, police station, shopping mall, library, post office, villas and part buildings are completed. One building is under construction having configuration Ground+6th floor having open parking. The STP of 13,900 m <sup>3</sup> /day has been provided on site. The treated water from the STP is used for flushing toilets, gardening and vehicle washing.		
(vi)	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche and first aid room etc.	Construction work is completed. At the time of construction phase shelters for the construction workers were provided at one side of plot boundary. For drinking water, 1 syntax tank and bisleri water was provided on site. Stove and kerosene fuel were provided for cooking to the workers by the contractor. Two toilets were provided for gents there was no ladies workers. Weekly health checkup of workers was carried out and record of the medicines and report was also maintained. First aid boxes were provided for workers on site.		
(vii)	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 waste water and solid wastes generated during the construction phase should be ensured.	For drinking water, 1 syntax tank and bisleri water was provided on site. Stove and kerosene fuel for cooking was provided for the workers by the contractor. Two toilets were provided for gents there was no ladies workers.		

No	Condition	Compliance	☑	P
(viii)	The solid waste generated should be properly collected, and segregated dry/inert solid waste should be disposed of to the approved sites for land filling after recovering recyclable material.	The waste generated from the labor camp was segregated as wet and dry waste. It was collected in separate bins and municipal vehicles were appointed to take away the segregated collected waste. From the constructed and occupation received school, police station, shopping mall, library, post office, villas and part buildings the solid waste generated is.33,980 kg/day of dry waste is segregated and disposed off to recyclers.22,654 kg/day of wet waste is composted using mechanical compost system (eco biocompass) and used as manure for gardening.1,125 kg/month of biomedical waste generated will be handed over to the authorized vendor as the hospital is yet under construction.122 m <sup>3</sup> /day of the sludge generated is used as a manure for gardening.		
(ix)	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.	The waste generated during operational phase collected and segregated at source itself and the garbage disposed in to the municipal bins.		
(x)	Arrangement shall be made that waste water and storm water do not get mixed.	The Storm water drains and sewer lines are separately provided on site. This arrangement shall ensure that storm water and sewage will not mix.		
(xi)	All the topsoil excavated during construction activities should be stored for use in horticulture/ landscape development within the project site.	The excavated top soil is used within the project site for landscaping.		
(xii)	Additional soil for leveling of the proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improved.	Natural drainage system of area is not disturbed. The construction is done by taking advantage of natural contour		

No	Condition	Compliance	☑	P
(xiii)	Green belt development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture department.	Native trees have been planted along the road. The RG area is provided of 4,98,525 m <sup>2</sup> for the project. The PP has proposed to plant trees along the plot boundary as per CPCB guidelines.		
(xiv)	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 approval sites with the approval of competent authority	The construction waste is reused for leveling and refilling. All safety precautions have been taken by the PP. The safety nets, safety equipment to the workers, barricading to plot boundary, water spraying at source of dust (twice in a day) and noise pollution mitigation measures are taken.		
(xv)	Soil and ground water samples will be tested to ascertain that there is no treat to ground water quality by leaching of heavy metals and other toxic contaminations.	Soil and samples from the project site are tested. Monitoring report for the month of October 2022 to March 2023 is attached. No ground water source is available at site hence not applicable		
(xvi)	Construction spoils, including bituminous material and other hazardous materials must not be allowed to contaminant watercourses and the dump sites for such material must be secured so that they should not leach into the ground water.	Such types of hazardous wastes are not expected to be generated in this activity. However, the disposal of the same is done as per CPCB /MBCB norms applicable to hazardous waste.		
(xvii)	Any hazardous waste generated during construction phase should be disposed of as per applicable rules and norms with necessary approvals of the Maharashtra Pollution Control Board.	No hazardous waste generated during construction & operation phase		
(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.	Such types of hazardous wastes are not expected to be generated in this activity. However, the disposal of the same is done as per CPCB /MBCB norms applicable to hazardous waste.		
(xix)	The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from concern authority shall be taken.	No diesel has been stored at the site.		



No	Condition	Compliance	☑	P
(xx)	Vehicles hired for the bringing construction material to the site should be good condition and should have a pollution check certificate and should confirm to applicable air, and noise emission standards and should operate during non-peak hours.	The vehicles hired for bringing construction material to the site are checked for PUC at main gate.		
(xxi)	Ambient noise levels should conform to residential standards both during day & night time. Incremental pollution loads on the ambient air, and noise quality should be closely monitored during construction phase. Adequate measure should be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/MPCB.	The day and night ambient noise levels within project area are monitored through MoEF&CC approved lab. Noise Monitoring reports for the month of October 2022 to March 2023 are provided.		
(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 27 <sup>th</sup> August, 2003. (The above condition is applicable only for the project site is located within the 100 km of thermal power stations)	For building construction, PP is utilizing fly ash mixed with concrete as well as fly ash bricks.		
(xxiii)	Ready mixed concrete must be used in building construction.	PP used Ready mixed concrete for construction activity. There is no RMC plant on site the concrete comes from outside.		
(xxiv)	The approval of competent authority shall be obtained for structural safety of the buildings due to any possible earthquake, adequacy of firefighting equipment, etc. as per National Building code including measures from lighting.	All the buildings have been designed as per National Building code and permission/sanction by the planning body.		
(xxv)	Storm water control and its re-use as per CGWB and BIS standards for various applications.	The provision of Roof top rain water harvesting through collection tank is made. The stored water is utilized for flushing purpose. The overflow of the tank is connected to the Municipal storm water drains. The storm water drains are constructed as per MMRDA's approval.		
(xxvi)	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.	Complying the same by use of pre-mixed concrete, curing agents and other best practices in NBC.		

No	Condition	Compliance	☑	P
(xxvii)	The ground water level and its quality should be monitored regularly in consultation with Ground Water Authority.	Ground water is not used for any purpose. No bore wells are dug on sites.		
(xxviii)	The installation of sewage treatment plant (STP) should be certified by an independent expert and a report in this regard should be submitted to the Ministry before project is commissioned for operation. Treated effluent emanating from STP shall be recycled/reused to the maximum extent possible. Treatment of 100 % grey water by decentralized treatment should be done. Discharge of unused treated effluent shall confirm the norms and standards of the Maharashtra Pollution Control Board. Necessary measure should be made to mitigate the odour problem from STP.	PP installed one STP of 13,900 m <sup>3</sup> /day capacity at site. The MBBR technology of STP is used. Treated effluent emanating from STP will be recycled to the maximum extent possible. The plant is designed as per standards prescribed by Maharashtra Pollution Control Board.		
(xxix)	Local body should ensure that no occupational certificate is issued prior to operation of STP/MSW site etc. with due permission of MPCB.	For few towers' occupation certificate is received after successful operation of STP and mechanical composting unit on site. For the remaining towers which are under construction occupation certificate will be issued prior to operation of STP and Mechanical Composting unit at site		
(xxx)	Permission to draw ground water shall be obtained from competent authority prior to construction /operation of the project.	Not Applicable. We are not using ground water. Permission from CGWB is not required.		
(xxxi)	Separation of grey & black water should be done by use of dual pumping line for separation of grey and black water.	The dual plumbing system for the separation of gray and black water is provided at site.		
(xxxii)	Fixtures of shower, toilet flushing, and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor-based control.	Water efficient sanitary fixtures have been provided.		
(xxxiii)	Use of glass may reduce 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.	PP have provided double glass window that reduces the electricity consumption load on air conditioning.		

No	Condition	Compliance	☑	P
(xxxiv)	Roof should meet prescriptive requirement as per energy conservation building code by using appropriate thermal insulation material to fulfill requirement.	Roof is as per the prescriptive requirement specified in Energy Conservation Building Code Roofing material: Total 8" thick (Slab + 2" Brick bat Coba + China Chips flooring)		
(xxxv)	Energy conservation measures like installation of CFLs/ TFLs for lighting the area outside the building should be integral part of the project design and should and should be in place before project commissioning. Use CFLs and TFLs should be properly collected and disposed of/sent for recycling as per the prevailing guidelines/ rule of the regulatory authority to avoid mercury contamination. Use of solar panel may be done to the extent possible like installing solar street lights, common solar water heater system, PP should install, after checking feasibility, Solar plus hybrid non-conventional energy source as source of energy.	For energy conservation PP have used - LED lights are provided for common area of each building. CFL are provided for outside the building. Solar hot water system is also provided, solar PV panels are also provided		
(xxxvi)	Diesel power generating sets proposed as source of backup power for elevator and common area illumination during operational phase should be of enclosed type and confirm to the rules made under the Environmental (protection) Act, 1986. The height of stack of DG sets should be equal to 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	During operation phase the provision of DG Sets shall be as per EPA-1986 as well as, guidelines for DG Set installation shall be followed. All DG Sets shall be with acoustic enclosures and will be using low Sulphur diesel. The stack heights shall be as per MPCB prescribed norms.		
(xxxvii)	Noise should be controlled to ensure that it does not exceed the prescribed standards. During night time the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations.	The barricading is provided at all over the site. The noise levels & ambient air monitoring results are well within the limits. The noise level has been monitored regularly by MoEF recognized laboratory. Noise Monitoring reports for the month of October 2022 to March 2023 are provided. Copy is attached.		

No	Condition	Compliance	☑	P
(xxxviii)	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.	The site is approachable by 30 m wide Kalyan Shil Road and terminates at the proposed plot. We have provided min 6 m internal roads for smooth traffic movement. Entry and exits are on the internal road which connects to the Kalyan Shil Road. Thus, direct exit on main road is accessed to reduce the congestion. Separate entry and exit points are given in the layout. Parking is fully on internal space.		
(xxxix)	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 aspirational for non-air-conditioned spaces by use of appropriate thermal insulation material to fulfill requirement.	For mall it is applicable. But not applicable for the other structures as they are for residential use.		
(xli)	The building should have adequate distance between them to allow movement of fresh air and passage of natural light, air, ventilation.	The buildings have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation to the premises. The buildings are constructed as per plan approved by MMRDA.		
(xlii)	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.	Site in-charge is responsible for regular supervision on environmental measures.		
(xlii)	Under the provisions of Environment (Protection) Act, 1986, legal action shall be initiated against the PP if it was found that construction of the project has been started without obtaining environmental clearance.	Prior Environmental Clearance is taken for this project. EC received on dated 03.11.2012 and revalidation on dated 22.11.2019.		

No	Condition	Compliance	✓	P
(xlili)	Six monthly monitoring reports should be submitted to the Department and MPCB.	The six-monthly Compliance Monitoring Reports to Regional Office, MoEF, Env. Dept. Govt. of Maharashtra and MPCB have been submitted. The acknowledgement copies of the previously submitted compliance and monitoring reports is attached as annexure. The monitoring reports for the period of October 2022 to March 2023 is attached as annexure.		
(xliv)	A complete set of all the documents submitted to Department should be forwarded to the MPCB.	PP have submitted complete set of all documents to department of MPCB Regional Officer, MoEF, Nagpur and Env. Dept. Mumbai.		
(xlv)	In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Department.	Noted.		
(xlvi)	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	At present project head himself is managing environment issues. However, the Cell shall be formed and it shall be responsible for necessary environmental safeguards		
(xlvii)	Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise breaks-up. These costs 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.	The funds for implementation of environmental protection measures/EMP are provided as per planned requirement. All the environmental infrastructure like STP, Rainwater harvesting and Solar PV panels are installed for the constructed buildings.		
(xlviii)	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://envis.maharashtra.gov.in">http://envis.maharashtra.gov.in</a>	Copy of the advertisement was published in two local newspapers is attached as annexure.		

No	Condition	Compliance	☑	P
(xlix)	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.	Acknowledgement copy of previous report is attached. The half yearly compliance report to MPCB is regularly submitted.		
(I)	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.	Noted. PP have received Revalidation EC from Government of Maharashtra dated 22.11.2019. The copy of the same is provided.		
(li)	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 level as well as stack emissions) or critical sectorial 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.	PP complies with the condition.		
(lii)	The PP shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.	The PP has submitted half yearly compliance reports to regional office of MoEF & MPCB. Yes, PP has submitted the previous compliance reports. The copy is provided. As per EC conditions, PP is submitting six monthly compliance reports as well as monitoring report for the period October 2022 to March 2023		

No	Condition	Compliance	☑	P
(liii)	The environmental statement for each financial year ending 31 <sup>st</sup> March in Form-V as is mandated to be submitted by the PP 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 Officers of MoEF by e-mail.	Six monthly reports regarding the status of compliance of EC conditions are regularly sent to all mandated authorities. PP have submitted environmental statement for each financial year ending 31 <sup>st</sup> March in Form-V to the concerned State Pollution Control Board.		
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 PP 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 PP. Hence this clearance does not give immunity to the PP in the case filed against him, if any or action initiated under EP act.	Environment clearance is issued dated 03 <sup>rd</sup> November, 2012. And revalidation on 22.11.2019. PP have not violated any environmental laws.		
5.	In case of submission of false documents and noncompliance of stipulated conditions, Authority / Environment department will rework or suspend the Environment Clearance without any intimation and initiate appropriate legal action under environment protection act, 1986	PP understand the issue and shall be abided accordingly.		
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 any other administrative reason.	PP agrees with the condition	✓	
7.	<b>Validity of Environment Clearance:</b> The Environmental clearance accorded shall be valid for a period of 5 years.	PP have received the Environment Clearance on 03.11.2012 and revalidation on 22.11.2019 as per MoEF notification dated 29.04.2015 it is valid up to 22.11.2026. Copy attached.		

No	Condition	Compliance	☑	P
8.	In case of any deviation or alternation 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 total constructed area as on date is less than prescribed in Environmental Clearance. PP shall apply for amendment in EC for revision/expansion as and when we propose any modification /expansion in EC conditions.		
9.	The above stipulations would be enforced among other under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules these under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the public liability Insurance Act, 1991 and its amendments.	Noted		
10	Any appeal against the environmental clearance shall lie with the National Green Tribunal, Van Vigyan Bhavan, Sec-5, R.K Puram, New Delhi-110022 if preferred within a period of 30 days as prescribed under section 35 of the National Green Tribunal Act, 2010.	Noted		



**Annexure I**  
**Previous Compliance Report acknowledgement copy**

07<sup>th</sup> January, 2023

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

**Subject: Half-yearly Compliance Report April 2022 to September 2022**

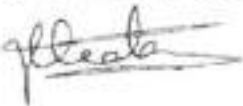
**Project** **Lodha Dwellers Pvt. Ltd. "Lodha Casa Bella" "at villages Nilje, Usargbar, Katai & Gbesar, Tal. Kalyan, Dist. Thane ( S.No.12/3 A 105 of village Usarghar, S.No.4/2, 4/7 of village Nilje, S.No.7/1A, 18/3 of village Katai and S.No.2/7, 117/0 of village Ghesar, Tal. Kalyan, Dist. Thane**

**EC No.** **SEIAA-2019/CR-194/SEIAA Dated 22nd November, 2019**  
**SEAC2011/CR 102 /TC-2 dated 3<sup>rd</sup> November 2012**

Dear Sir,

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

Thanking you,  
Yours faithfully,  
**For Macrotech Developers Ltd.**  
**(Previously known as Lodha Dwellers Pvt. Ltd.)**



**Project Proponent**

**Enclosure:** A hard copy of the compliance and monitoring report

- CC copy to:**
1. Regional officer, Maharashtra Pollution Control Board, Kalyan S.R.O-I
  2. Member Secretary, Maharashtra Pollution Control Board, Sion, Mumbai
  3. Member Secretary, State Environmental Impact Assessment Authority, Govt. of Maharashtra, Mumbai



## **Annexure II**

### **Site Photographs**

Project Site





D.G Set



## STP



## Safety Equipments





Parking Area



Plantation at site



**Annexure III**  
**Environment Clearance letter**

**Government of Maharashtra**

**SEAC2011/CR 102 /TC-2**

Environment department,  
Room No. 217, 2<sup>nd</sup> floor,  
Mantralaya Annexe,  
Mumbai 400 032  
Date: 3<sup>rd</sup> November, 2012

To,

M/s. Lodha Dwellers Pvt. Ltd  
At village Ghesar, Tal Kalyan,  
Dist- Thane .

**Subject: Environmental Clearance for Proposed expansion of residential township " Casa Bella" at villages Nilje,Usarghar, Katai & Ghesar,Tal.Kalyan, Distt. Thane ( S.No.12/3 A.....105 of village Usarghar, S.No.4/2.....4/7 of village Nilje, S.No.7/1A.....18/3 of village Katai and S.No.2/7.....117/0 of village Ghesar,Tal.Kalyan,Distt.Thane by Lodha Dwellers Pvt. Ltd - Environmental clearance regarding.**

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-II, Maharashtra in its 1<sup>st</sup>, 2<sup>nd</sup> & 3<sup>rd</sup> meetings and decided to 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 52<sup>nd</sup> Meeting.

2. It is noted that the proposal is for grant of Environmental Clearance for Proposed expansion of residential township " Casa Bella" at villages Nilje,Usarghar, Katai & Ghesar,Tal.Kalyan, Distt. Thane ( S.No.12/3 A.....105 of village Usarghar, S.No.4/2.....4/7 of village Nilje, S.No.7/1A.....18/3 of village Katai and S.No.2/7.....117/0 of village Ghesar,Tal.Kalyan,Distt.Thane by Lodha Dwellers Pvt. Ltd. SEAC considered the project under screening category 8(b) B1 as per EIA Notification 2006.

**Brief Information of the project is summarized during SEAC & SEIAA Meetings as:**

<b>Name of the Project</b>	: Proposed Expansion of Residential Township "Casa Bella"
<b>Project Proponent</b>	: Lodha Dwellers Pvt. Ltd.
<b>Consultant</b>	: Mahabul Enviro Engg. Pvt. Ltd
<b>Location of the project</b>	: villages Nilje,Usarghar, Katai & Ghesar,Tal.Kalyan, Dist Thane ( S.No.12/3 A.....105 of village Usarghar, S.No.4/2.....4/7 of village Nilje S.No.7/1A.....18/3 of village Katai and S.No.2/7.....117/0 of village Ghesar,Tal.Kalyan,Distt.Thane
<b>Type of Project</b>	: Residential Township Project





Category	: 8 (b), B1
Whether in Corporation / Municipal / Other area	MMRDA
Total plot area (Sq.m)	14,54,275 m <sup>2</sup>
Deductions	—
Net plot area	14,54,275 m <sup>2</sup>
Permissible FSI (including TDR etc.)	14,54,275 m <sup>2</sup>
Proposed Built -UP Area (FSI & Non FSI)	<ul style="list-style-type: none"> <li>• FSI area (sq. m.): 14,54,275 m<sup>2</sup></li> <li>• Non FSI area (sq. m.): 5,33,719.46 m<sup>2</sup></li> <li>• Total BUA area (sq. m.): 19,87,994.46 m<sup>2</sup></li> </ul>
Ground - coverage percentage (%) (Note : percentage of plot not open to sky)	15.90%
Estimated cost of the project	Rs. 2568 Crore
No. of building & its configuration (s)	<p><u>As per EC received dated 17.07.2010</u></p> <p>1 BHK: 2400 Nos.; 2 BHK: 9786 Nos.; 3 BHK: 1070 Nos.; Vilas: 27 Nos.; School: 2, Hospital: 2, Police Station: 1, Shopping Mall, Library, Market, Retail Shops, Public Transport hub, post office.</p> <p><u>Total After Expansion</u></p> <p>1 BHK: 10898 Nos.; 2 BHK: 9895 Nos.; 3 BHK: 1028- Nos.; Vilas: 27 Nos.; School: 3, Hospital: 3, Police Chowky: 1, Shopping Mall &amp; Multiplex: 1, Retail Shops, Public Transport hub, Post office, Cemetery, Fire Stations: 2, Social &amp; recreational Facilities with swimming Pools: 5, Receiving Station: 3.</p>
Number of tenants and shops	<p><u>As per EC received dated 17.07.2010</u></p> <p>Tenements: 13,256 Nos. Vilas: 27 School: 2, Hospital: 2, Police Station: 1, Shopping Mall, Library, Market, Retail Shops, Public Transport hub, post office</p> <p><u>Proposed:</u></p> <p>Tenements: 8565 Nos.</p> <p><u>Total After Expansion:</u></p> <p>Tenement: 21,821 Vilas: 27 Nos.; School: 3, Hospital: 3, Police Chowky: 1, Shopping Mall &amp; Multiplex: 1, Retail Shops, Public Transport hub, Post office, Cemetery, Fire Stations: 2, Social &amp; recreational Facilities with swimming Pools: 5, Receiving Station: 3</p>

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<b>Number of expected residents / users</b>	1,19,310 Nos.
<b>Height of the building(s)</b>	23.80m, 41.60m, 26.10m, 58.30m, 69.60 m (Max)
<b>Right of way</b>	The project site is accessed by 30 m wide Kalyan – Shil Road. 2 Nos. Fire stations are proposed in the Project.
<b>Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation</b>	Minimum 8 m radius for Bldgs of S + 19, S+14, S+22 & G+13 and all amenities
<b>Total Water Requirement</b>	<ul style="list-style-type: none"> <li>• Fresh water (CMD): 9983</li> <li>• Source : MIDC</li> <li>• Recycled Water (CMD): 8055</li> <li>• Total water requirement (CMD): 15,201</li> <li>• Swimming pool make up (cum): 80 (cum)</li> <li>• Fire fighting (cum): Total 9,190 m<sup>3</sup></li> </ul> <b>Wet Season</b> <ul style="list-style-type: none"> <li>• Fresh water (CMD): 9983</li> <li>• Source: MIDC</li> <li>• Recycled Water (CMD): 5562</li> <li>• Total water requirement (CMD): 15,201</li> <li>• Swimming pool make up (cum): 16 (cum)</li> <li>• Fire fighting (cum): Total 9190m<sup>3</sup></li> </ul>
<b>Rain Water Harvesting (RWH)</b>	Size and no. of recharge pits and quantity: 220 Nos. of Recharge pits of 3m x 3m dia and 3 m depth Budgetary allocation: Capital Cost: 225 Lakh O & M Cost: 13 Lakh
<b>Storm water drainage</b>	Natural water drainage pattern: Natural drainage towards Desai River Quantity of storm water: 96,401 m <sup>3</sup> /hr Size of SWD: Min 0.3m X 0.3 m, Max 1.6 m X 1.8 m & 1.8m X 1.5m
<b>Sewage and waste water</b>	<ul style="list-style-type: none"> <li>• Sewage generation (CMD): 12,160 m<sup>3</sup>/day</li> <li>• STP Technology: MBR Technology</li> <li>• Capacity of STP (CMD): 13,900 m<sup>3</sup>/d</li> </ul> Budgetary allocation: Capital Cost: 2300 Lakh O & M Cost: 450 Lakh
<b>Solid waste Management</b>	<b>Waste generation in the pre construction and construction phase:</b> <ul style="list-style-type: none"> <li>• Waste generation : 1200 kg/day</li> <li>• Quantity of the top soil to be preserved : 4,36,000 CuM</li> <li>• Disposal of the construction way debris : 800 kg/day</li> </ul> <b>Waste generation in the Operation phase</b>

	<ul style="list-style-type: none"> <li>• Dry Waste (kg/d): 33,980 kg/day</li> <li>• Wet Waste (kg/d): 22,654 kg/day</li> <li>• Biomedical Waste (kg/month): 1,125 kg/month</li> <li>• STP Sludge (dry sludge) (kg/d): 122 CMD</li> </ul> <p>Mode of Disposal of Waste</p> <p>Dry Waste: Dry garbage will be segregated &amp; disposed off to recyclers</p> <p>Wet Waste: Wet garbage will be composted using Mechanical Composting system (Eco Biocompack) and used as organic manure for landscaping</p> <p>STP sludge (dry sludge): Sludge will be used as manure for gardening</p> <p>Budgetary allocation: Capital Cost: 225 Lakh O &amp; M Cost: 22 Lakh</p>
<b>Green Belt Development</b>	<p>Total RG Area: 498,525 m<sup>2</sup></p> <p>Budgetary allocation: Capital Cost: 5550 Lakh O &amp; M Cost: 45 Lakh</p>
<b>Energy</b>	<p><b>Power supply</b></p> <ul style="list-style-type: none"> <li>• Maximum demand : 79 MW</li> <li>• Connect load : 131.05 MW</li> <li>• Source :MSEDCL</li> <li>• Number and capacity of the DG sets to be used: Capacity of DG Set provided for 26,456 kVA</li> </ul>
<b>Traffic Management</b>	<p>Parking details</p> <ul style="list-style-type: none"> <li>• Number &amp; area of basement: 2Nos 12,600 sq.m. Only For Retail Mall.</li> <li>• Total Parking Area:Gross Parking Area: 2,19,307 m<sup>2</sup></li> <li>• Area per car: 13.70 m<sup>2</sup></li> <li>• 2-Wheeler: 8010 Nos.</li> <li>• 4-Wheeler: 15043 Nos.</li> </ul>
<b>Environmental Management plan Budgetary Allocation</b>	<p>Capital cost: O &amp; M Cost:</p>

3. The proposal has been considered by SEIAA in its 52<sup>nd</sup> 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 :-

- Plinth level shall be above 100 years HFL and should be at least at the level 100.5 m above MSL.
- Soil erosion measures comprising appropriate soil binders, plant species etc. to reduce erosion during rainy season shall be undertaken.
- Details of holding ponds, location, capacity etc. shall be earmarked on the project layout.
- RWH shall be redesigned based on depth of ground water table and soil permeability specific to the project site and implement accordingly.

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- (v) Location of the common garbage collection points and garbage containers having compartments to receive dry, recyclable, non-recyclable & wet garbage separately shall be provided and indicated on the layout plan.
- (vi) Details of the transportation methodology for garbage from source to disposal point and its management shall be followed as indicated.
- (vii) Constitution of Federation and its role for providing & maintaining common environmental infrastructure shall be part of the conveyance deed.
- (viii) Service road to be provided along the State highway from the site, to avoid direct access to the entry and exit.
- (ix) Sufficient common public transport in the complex with adequate frequency to reduce traffic on the road shall be provided.
- (x) Noise barriers and dense plantation belt in between railway line and the project site shall be provided.
- (xi) Facilities for household workers, drivers, sweepers, gardeners etc. shall be provided within the complex.
- (xii) Public sanitation facilities for common use to public at appropriate places shall be provided.
- (xiii) No untreated sewage shall be discharged in the Desai river and a monitoring mechanism be put in place.

Besides this, following general terms and conditions are applicable:

- (i) This environmental clearance is issued subject to land use verification. Local authority / planning authority should ensure this with respect to Rules, Regulations, Notifications, Government Resolutions, Circulars, etc. issued if any. This environmental clearance issued with respect to the environmental consideration and it does not mean that State Level Impact Assessment Authority (SELAA) approved the proposed land use.
- (ii) 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.
- (iii) "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.
- (iv) All required sanitary and hygienic measures should be in place before starting construction activities and to be maintained throughout the construction phase.
- (v) 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.
- (vi) Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche and First Aid Room etc.
- (vii) 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.
- (viii) 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



- (ix) 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.
- (x) Arrangement shall be made that waste water and storm water do not get mixed.
- (xi) All the topsoil excavated during construction activities should be stored for use in horticulture / landscape development within the project site.
- (xii) Additional soil for 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.
- (xiii) Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.
- (xiv) 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.
- (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) The approval of competent authority shall be obtained for structural safety of the buildings due to any possible earthquake, adequacy of fire fighting equipments etc, as per National Building Code including measures from lighting.
- (xxv) Storm water control and its re-use as per CGWB and BIS standards for various applications.
- (xxvi) Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
- (xxvii) The ground water level and its quality should be monitored regularly in consultation with Ground Water Authority.





- (xxviii) 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. 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 odour problem from STP.
- (xxix) Local body should ensure that no occupation certification is issued prior to operation of STP/MSW site etc. with due permission of MPCB.
- (xxx) Permission to draw ground water shall be obtained from the competent Authority prior to construction/operation of the project.
- (xxxi) Separation of gray and black water should be done by the use of dual plumbing line for separation of gray and black water.
- (xxxii) 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.
- (xxxiii) 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.
- (xxxiv) Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill requirement
- (xxxv) 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.
- (xxxvi) Diesel power generating sets proposed as source of back up power for elevators and common area illumination during operation phase should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use low sulphur diesel. The location of the DG sets may be decided with in consultation with Maharashtra Pollution Control Board.
- (xxxvii) 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.
- (xxxviii) 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.
- (xxxix) 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 aspirational for non-air-conditioned spaces by use of appropriate thermal insulation material to fulfill requirement
- (xl) The building should have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation
- (xli) 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.
- (xlii) 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.
- (xliii) Six monthly monitoring reports should be submitted to the Department and MPCB.



- (xiv) A complete set of all the documents submitted to Department should be forwarded to the MPCB
  - (xlv) 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.
  - (xlviii) The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the Marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at <http://ec.maharashtra.gov.in>.
  - (xlix) 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.
  - (i) 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.
  - (ii) 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.
  - (iii) 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.
  - (iii) The environmental statement for each financial year ending 31<sup>st</sup> 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.
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 the clearance does not give immunity to the project proponent in the case filed against him, if any or action initiated under EP Act.
5. In case of submission of false document and non compliance of stipulated conditions, Authority/ Environment Department will revoke or suspend the Environmental Clearance



- without any intimation and initiate appropriate legal action under Environmental Protection Act, 1986.
6. The Environment department reserves the right to add any stringent condition or to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the department or for that matter, for any other administrative reason.
  7. **Validity of Environment Clearance:** The environmental clearance accorded shall be valid for a period of 5 years.
  8. In case of any deviation or alteration in the project proposed from those submitted to this department for clearance, a fresh reference should be made to the department to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.
  9. The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the public Liability Insurance Act, 1991 and its amendments.
  10. Any appeal against this environmental clearance shall lie with the National Green Tribunal, Van Vigyan Bhawan, Sec- 5, R.K. Puram, New Dehli - 110 022, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.



(Valsa R Nair Singh)  
Secretary, Environment  
department & MS, SEIAA

**Copy to:**

1. Shri. P.M.A Hakeem, IAS (Retd.), Chairman, SEIAA, 'Jugnu' Kottaram Road, Calicut- 673 006 Kerala.
2. Dr. S. Devotta, Chairman, SEAC, T2/302 Sky City, Vanagaram -Ambattur Road, Chennai - 600 095
3. Additional Secretary, MOEF, 'Paryavaran Bhawan' CGO Complex, Lodhi Road, New Delhi - 110510
4. Member Secretary, Maharashtra Pollution Control Board, with request to display a copy of the clearance.
5. The CCF, Regional Office, Ministry of Environment and Forest (Regional Office, Western Region, Kendriya Paryavaran Bhavan, Link Road No- 3, E-5, Ravi-Shankar Nagar, Bhopal- 462 016). (MP).
6. Regional Office, MPCB, Thane.
7. Collector, Thane.



8. Commissioner, ThaneMunicipal Corporation, Thane.
9. IA- Division, Monitoring Cell, MoEF, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi-110003.
10. Director (TC-1), Dy. Secretary (TC-2), Scientist-1, Environment Department.
11. Select file (TC-3).

**STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY**

SEIAA-2015/CR-76/TC-3  
Environment department,  
Room No. 217, 2<sup>nd</sup> floor,  
Mentulaya Annexe,  
Mumbai 400 032  
Date: 8<sup>th</sup> October, 2015

To,  
M/s. Lodha Dwellers Pvt. Ltd,  
Lodha Excelus, Level-9,  
Apollo Mills Compound,  
N.M.Joshi Marg, Mahalaxmi,  
Mumbai- 400 011.

**Subject:- Amendment & Expansion in Environmental Clearance for Construction project of Residential Township at Village Usarghar, Katai, Nilge & Ghesar Tal.Kalyan, Dist. Thane.**

**Reference-** Even number environment clearance letter dated 5<sup>th</sup> November, 2012.

Sir,

This has reference to your communication on the above mentioned subject.

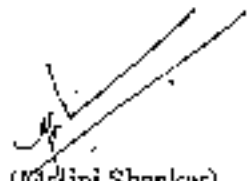
2. It is noted that, the proposal earlier considered by SEAC-II in its 3<sup>rd</sup> meeting and recommended to SEIAA. SEIAA in its 52<sup>nd</sup> meeting decided to accord grant of EC to the project. Accordingly EC has been issued to the project vide letter no SEAC 2011/CR.102/TC.2 dated 3<sup>rd</sup> November, 2012. The Authority noted the D.O. letter no. SEIAA-2014/CR.133/TC-3 dated 29<sup>th</sup> November, 2014 by Add. Chief Secretary, Environment Department, GoM to Secretary, MoEF&CC regarding amendments in EC issued to the building projects.

In the 87<sup>th</sup> SEIAA meeting, the proposed changes in detail and considering OM dated 19.06.2013 issued by MoEF wherein it is clarified that SEIAA/SEAC need not focus on the other issues which are normally looked after by the concerned local bodies. Therefore, SEIAA decided to accord approval to the amendment sought in the EC as the consequential impact on account of the proposed changes is not likely to be adverse on the environmental parameters.

Sr. No.	Details	Earlier Proposal - EC granted dtd. 3rd Nov, 2012	Proposed Amendment & Expansion in EC granted dtd. 3rd Nov, 2012	Remarks
1	Name of the Project	Environmental Clearance to Proposed Residential Township development on plot bearing(as per attached Annexure I) at Village: Usarghar, Katar, Nilge & Ghesar Tal.Kalyan, Dist. Thane.	Environmental Clearance to Proposed Residential Township development on plot bearing(as per attached Annexure I) at Village: Usarghar, Katar, Nilge & Ghesar Tal.Kalyan, Dist. Thane.	No change
2	Project Proponent	M/S Lodha Dwellers Pvt.Ltd., 216, Shah & Nahar Estate, Dr. E. Moses Road, Worli Mumbai - 400 018, Maharashtra.	M/S Lodha Dwellers Pvt.Ltd., Regd.Office:-216, Shah & Nahar Estate, Dr. E. Moses Road, Worli Mumbai -400 018, Maharashtra Corporate Office:- Lodha Excehbs, Apollo Mills Compound, N M. Joshi Marg, Mahalaxmi, Mumbai 400 011.	No change
3	Total Plot Area	14,54,275 sqm.	14,78,822 sqm.	Plot area added by 24,547 sq.mtis (1.69%)
4	Total permissible Built-up Area	14,54,275 sqm (FSI), 19,87,994.46 sqm (Total Construction BUA )	14,78,822 sqm (FSI), 20,22,789 sqm (Total Construction BUA )	Construction BUA increased by 34,795 sq.m.(1.75%)
5	Total Number Of Towers	1BHK : 10898 Nos. 2BHK: 9895 Nos. 3BHK : 1028 Nos. Total Nos Of Bldgs 462 Tenements - 21,821 Nos. Villas = 27 Nos. School - 3 Nos. Hospital = 3 Nos. Police Chowky = 1 Nos. Shopping Mall & Multiplex =1No.	1BHK : 11030 Nos. 2BHK: 9937 Nos. 3BHK : 1028 Nos. Total Nos Of Bldgs 458 Tenements = 21,995 Nos. Villas - 25 Nos. School = 3 Nos. Hospital - 3 Nos. Police Chowky = 1 Nos. Shopping Mall & Multiplex =1No.	8 Nos S+8 (240 tenements), 2 Nos S+19 (148 Tenements ) replace with 5 Nos G+17 flr bldgs (530 tenements ). A G+7 flr bldg (32 tenements ) is added. Hence number of tenements

		Retail Shops, Public Transpor Hub, Post Office, Cemetery, Fire Station 2 Nos, Social & Recreation Facilities with Swimming Pools - 5 Nos Receiving Stations.	Retail Shops, Public Transpor Hub, Post Office, Cemetery, Fire Station 2 Nus, Social & Recreation Facilities with Swimming Pools - 5 Nos Receiving Stations. Commercial Bldgs 1.	increased by 174 nos. However total number of buildings have decreased by 4 nos.
6	Water Requirement	During Operation Phase - 15.20 MLD Fresh Water: 9.983 MLD Re-cycled Water: 8.055 MLD	During Operation Phase - 15.40 MLD Fresh Water: 10.09 MLD Re-cycled Water: 8.152 MLD	Minor changes due to increase in tenements.
7	Waste Water Generation	12.16 MLD	12.20 MLD	Minor changes due to increase in tenements
8	Solid Waste generation	Dry Waste - 33.98 TPD Wet Waste - 22.654 TPD Biomedical waste - 1.125 TPM STP Sludge - 122 CMD	Dry Waste - 35.05 TPD Wet Waste - 23.37 TPD Biomedical waste - 1.225 TPM STP Sludge - 123 CMD	Minor changes due to increase in tenements
9	Energy	Maximum Demand Load: 79 MW Connected Load: 131.05 MW DG set: DG of 26,456 KVA	Maximum Demand Load: 83.7 MW Connected Load: 138.05 MW DG set: DG of 27,500 KVA	Minor changes due to increase in tenements
10	Traffic Management	Total Parking area Gross Parking Area - 2,19,307 sq.m. 4 - Wheeler - 15043 Nos. 2 - Wheeler - 8010 Nos.	Total Parking area Gross Parking Area - 2,39,124 sq.m. 4 - Wheeler - 15550 Nos. 2 - Wheeler - 8255 Nos.	Minor changes due to increase in tenements
11	Capacity of STP	13,900 Cu.M/D	13,900 Cu.M/D	No Change.

Terms and conditions stipulated in even number environment clearance letter dated 3<sup>rd</sup> November, 2012 remains the same.

  
(Madini Shankar)  
Member Secretary, SEIAA.

**Copy to:**

1. Shri. R. C. Joshi, IAS (Retd.), Chairman, SEIAA, Flat No. 26, Belvedere, Bhulabhai Desai Road, Breach Candy, Mumbai-400026
2. Additional Secretary, MOEF, MoEF & CC, Indira Paryavaran Bhavan, Jorbagh Road, Aliganj, New Delhi-110003.
3. Member Secretary, Maharashtra Pollution Control Board, with request to display a copy of the clearance.
4. The CCF, Regional Office, Ministry of Environment and Forest (Regional Office, Western Region, Kendriya Paryavaran Bhavan, Link Road No- 3, E 5, Ravi-Shankar Nagar, Bhopal-462 016). (MP).
5. Commissioner, Kalyan-Dombivli Municipal Corporation.
6. Regional Office, MPCB, Mumbai
7. Collector, Thane
8. IA- Division, Monitoring Cell, MoEF & CC, Indira Paryavaran Bhavan, Jorbagh Road, Aliganj, New Delhi-110003.
9. Select file (TC-3)

(EC uploaded on 15/10/2015 )

## STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

SEIAA-2019/CR-194/SEIAA.  
 Environment Department  
 Room No. 217, 2<sup>nd</sup> Floor,  
 Mantralaya,  
 Mumbai- 400032.  
 Date: 22.11.2019.


To  
 M/s. Lodha Dwellers Pvt. Ltd.,  
 Lodha Excelus, Levelus, Level-9,  
 Apollo Mills Compound,  
 N.M.Joshi Marg, Mahalaxmi,  
 Mumbai- 400 011.

Sub : Revalidation of prior Environmental Clearance for construction of Residential Township at Casa Bella at Village Nilje, Katai, usaghar & Ghesar, Taluka kalyan, Dist- Thane by M/s. Macrotech Developers (Lodha Dwellers Pvt. Ltd.)

Ref : 1. Application for re-validation dated 16.10.2019 .  
 2. Minutes of 180<sup>th</sup> meeting of SEIAA dated 07.11.2019.  
 3. Earlier EC vide letter no. SEAC-2011/C.R.102/T.C.2, dated 03.11.2012.  
 4. Amendment in Ec vide letter SEIAA-2015/CR-76/TC-3, 08.10.2015.

With reference to above subject matter, it is noted that, you have received Environment Clearance vide letter dated 03.11.2012 and amended vide letter dated 08.10.2015. You have further applied for revalidation of Environment Clearance for said project within validity of the aforesaid EC vide above ref.(1). Your proposal for revalidation was considered in 180<sup>th</sup> meeting of SEIAA held on 07.11.2019 and as per decision taken in the meeting, the environment clearance granted vide above ref. (3) is revalidated for a period up to 01.11.2022.

The terms and conditions stipulated in the EC letter dated 03.11.2012 vide above ref. (3) shall remain the same.

  
 (Anil Diggikar)  
 Principle Secretary  
 & Member Secretary, SEIAA

**Annexure IV**  
**Environment Monitoring Report**





# Mahabal Enviro Engineers Pvt. Ltd.

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



## TEST REPORT

Report No.:	ME-NG03536-230304-SA- LODHA-THANE	Date: 04.03.2023
ULR No.:	TC748723000003274F	

Name and Address of Customer	LODHA CASA BELLA GOLD Nilje Usarghar Katai Naka, Kalyan, Thane		WO No.: Verbal WO Date: -
Sample Description / Type	Ambient Air	Sample Collected by	Laboratory
Sampling Location	Near STP Area	Sample Quantity / Packing	PM <sub>10</sub> : Filter Paper 1 X 3 No. PM <sub>2.5</sub> : Filter Paper 1 X 1 No. SO <sub>2</sub> : 30 mL X 6 No. PVC Bottle NO <sub>2</sub> : 30 mL X 6 No. PVC Bottle
Date of Sampling	23.02.2023 to 24.02.2023	Date of Receipt of Sample	26.02.2023
Sampling Procedure	As per Method reference		
Date of Start of Analysis	27.02.2023	Date of Completion of Analysis	01.03.2023

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	<b>Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)</b>				
1	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	10.8	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	12.1	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	42	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	µg/m <sup>3</sup>	18	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30

## END OF REPORT

- Note:**
1. BQL: Below Quantification Limit.
  2. LOQ: Limit of Quantification.
  3. Duration of Sampling: 24h
  4. TWA: Time Weighted Average
  5. NAAQS: National Ambient Air Quality Standard
  6. #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>10</sub>, PM<sub>2.5</sub>, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
  7. The result listed refers only to the tested sample(s) and applicable parameter(s).
  8. This report is not to be reproduced except in full, without the written approval of the laboratory.
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Phone: 0712-2612162/2612212 email: nagpur@mahabal.com



## TEST REPORT

Report No.:	ME-3539-230308-SA- LODHA-THANE	Date: 08.03.2023
ULR No.:	TC748723000003277F	

Name and Address of Customer	LODHA CASA BELLA GOLD Nilje Usarghar Katal Naka, Kalyan, Thane		WO No.: Verbal WO Date: -
Sample Description / Type	Drinking water	Sample Collected by	Laboratory
Sampling Location	MSEB PCM Office Tap water	Sample Quantity / Packing	2L X 1 No. PVC Can 500 mL X 1 No. PVC Can 250 mL X 1 No. Sterilized Glass Bottle
Date of Sampling	25.02.2023	Date of Receipt of Sample	26.02.2023
Sampling Procedure	IS:3025(Part I):1987 RA 2019; IS 1622:1981 RA 2019, APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40; 9060 A, 9-36		
Date of Start of Analysis	26.02.2023	Date of Completion of Analysis	08.03.2023

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
	<b>Discipline: Chemical Testing; Product Group: Water (Drinking Water)</b>				
1.	Colour	Hazen	BQL (LOQ:1)	5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 2120-B, 2-6
2.	Odour	-	Agreeable	Agreeable	IS 3025 (Part 05):1984, RA 2018
3.	Turbidity	NTU	0.3	1 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 2130-B, 2-13
4.	pH	-	7.3	6.5 to 8.5	APHA 23 <sup>rd</sup> Ed. 2017, 4500-H <sup>+</sup> -B, 4-95
5.	Total Dissolved Solids	mg/L	110	500 Max.	IS 3025 (Part 16):1984 RA 2017, Ed.2.1 (1999-12)
6.	Alkalinity Total (as CaCO <sub>3</sub> )	mg/L	64	200 Max.	IS 3025 (Part 23):1986 Reaffirmed 2019 Amds 1
7.	Total Hardness (as CaCO <sub>3</sub> )	mg/L	74	200 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 2340-C, 2-48
8.	Calcium (as Ca)	mg/L	17.6	75 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Ca-B, 3-69
9.	Magnesium (as Mg)	mg/L	7.3	30 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Mg-B, 3-86
10.	Free Chlorine (Residual)	mg/L	BQL (LOQ:0.05)	0.2 min.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl G, 4-72
11.	Chloride (as Cl)	mg/L	18.0	250 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl-B, 4-75
12.	Sulphate (as SO <sub>4</sub> )	mg/L	7.8	200 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-SO <sub>4</sub> -E, 4-199

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24.12.2022

**Harish Mendhi**  
Technical Manager  
Chemical Testing

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





# Mahabal Enviro Engineers Pvt. Ltd.

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

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



## TEST REPORT

Report No.:	ME-3539-230308-SA- LODHA-THANE	Date: 08.03.2023
ULR No.:	TC748723000003277F	

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
13.	Nitrate (as NO <sub>3</sub> )	mg/L	0.71	45 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-NO <sub>3</sub> , E 4-131
14.	Fluoride (as F)	mg/L	0.21	1 Max	APHA 23 <sup>rd</sup> Ed. 2017, 4500-F, D, 4-90
	<b>Residues in water (Trace metal Element)</b>				
15.	Iron (as Fe)	mg/L	0.152	1.0 Max.	IS:3025 (Part 2), 2019
	<b>Discipline: Biological Testing; Product Group: Water (Drinking water)</b>				
16.	Total Coliforms	/100mL	Absent	Shall not be detectable in any 100 mL Sample.	IS 15185:2016
17.	<i>Escherichia coli</i>	/100mL	Absent	Shall not be detectable in any 100 mL Sample.	IS 15185:2016

## END OF REPORT

- Note:**
1. BQL: Below Quantification Limit.
  2. LOQ: Limit of Quantification.
  3. #: Acceptable Limit as per IS 10500:2012; RA 2018.
  4. The result listed refers only to the tested sample(s) and applicable parameter(s).
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Phone: 0712-2612162/2612212 email: nagpur@mahabal.com



## TEST REPORT

Report No.:	ME-NG03542-230311-SA-LODHA-THANE	Date:	11.03.2023
ULR No.:	TC748723000003280F		

Name and Address of Customer	LODHA CASA BELLA GOLD Nilje Usarghar Katai Naka, Kalyan, Thane		WO No.: Verbal WO Date: -
Sample Description / Type	Soil	Sample Collected by	Laboratory
Sampling Location	Casa Bela Gold Garden	Sample Quantity / Packing	2 kg X 1 No. Polyethene bag
Date of Sampling	25.02.2023	Date of Receipt of Sample	26.02.2023
Sampling Procedure	Manual of Soil Testing, Department of Agriculture & Cooperation, Ministry of Agriculture, Govt. India		
Date of Start of Analysis	01.03.2023	Date of Completion of Analysis	11.03.2023

Sr. No.	Parameter	Unit	Result	Method Reference
	<b>Discipline: Chemical Testing; Product Group: Pollution &amp; Environment (Soil)</b>			
1.	pH (1+5)	-	7.1	FAO 1976, Sec.III,1, Page No. 65
2.	Moisture Content	%	13.7	IS 2720 (Part II): 1973, RA 2002, Ed. 3.1
3.	Cation Exchange Capacity	meq/100gm	53.1	FAO Sec. III :7-2, Page No. 104
4.	Organic Carbon	%	0.287	Manual of Soil Testing, Department of Agriculture & Cooperation, Ministry of Agriculture, Govt. India, Sec.4-17, Page No 83.
5.	Total Cadmium	mg/kg	BQL (LOQ:2)	USEPA/SW 846 Method 3050B, Rev.2: Dec.1996 and 7000B, Rev.2, Feb 2007
6.	Total Chromium	mg/kg	73.1	USEPA/SW 846 Method 3050B, Rev.2: Dec.1996 and 7000B, Rev.2, Feb 2007
7.	Available Boron as B	mg/kg	0.296	Manual of Soil Testing, Department of Agriculture & Cooperation, Ministry of Agriculture Govt. India, Sec 17-B page No 115
8.	Total Copper	mg/kg	138	USEPA/SW 846 Method 3050B, Rev.2: Dec.1996 and 7000B, Rev.2, Feb 2007
9.	Total Lead	mg/kg	9.18	USEPA/SW 846 Method 3050B, Rev.2: Dec.1996 and 7000B, Rev.2, Feb 2007
10.	Total Nickel	mg/kg	94.1	USEPA/SW 846 Method 3050B, Rev.2: Dec.1996 and 7000B, Rev.2, Feb 2007
11.	Available Calcium	meq/ 100gm	44.8	FAO Sec.III.8-1, Page No. 115

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24.12.2022

*Harish Mendhi*  
**Harish Mendhi**  
Technical Manager  
Chemical Testing





# Mahabal Enviro Engineers Pvt. Ltd.

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

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



## TEST REPORT

Report No.:	ME-NG03542-230311-SA-LODHA-THANE	Date: 11.03.2023
ULR No.:	TC748723000003280F	

Sr. No.	Parameter	Unit	Result	Method Reference
12.	Available Magnesium	meq/ 100gm	6.80	FAO Sec.III.8-1, Page No. 115
13.	Available Potassium	meq/100gm	0.239	FAO Sec.III.8-1, Page No. 115
14.	Total Phosphate	mg/kg	674	Manual for method of water, Soil and Plant analysis WL II, Page No 16
15.	Total Zinc	mg/kg	88.6	USEPA/SW 846 Method 3050B, Rev.2: Dec.1996 and 7000B, Rev.2, Feb 2007
16.	Available Sodium	meq/ 100gm	1.20	FAO Sec. III. 8-1, Page No. 115

## END OF REPORT

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



## TEST REPORT

Report No.:	ME-NG03542N-230311-SA-LODHA-THANE	Date: 11.03.2023
ULR No.:	-	

Name and Address of Customer	LODHA CASA BELLA GOLD Nilje Usarghar Katal Naka, Kalyan, Thane		WO No.: Verbal WO Date: -
Sample Description / Type	Soil	Sample Collected by	Laboratory
Sampling Location	Casa Bela Gold Garden	Sample Quantity / Packing	2 kg X 1 No. Polyethylene bag
Date of Sampling	25.02.2023	Date of Receipt of Sample	26.02.2023
Sampling Procedure	Manual of Soil Testing, Department of Agriculture & Cooperation, Ministry of Agriculture, Govt. India		
Date of Start of Analysis	01.03.2023	Date of Completion of Analysis	11.03.2023

Sr. No.	Parameter	Unit	Result	Method Reference
	<b>Discipline: Chemical Testing; Product Group: Pollution &amp; Environment (Soil)</b>			
1.	Water Retaining capacity	%	65.7	IBM Manual page No.264
2.	Total Nitrogen	mg/kg	1011	WL II Page No. 11
3.	Mercury	mg/kg	BQL (LOQ:0.1)	USEPA/SW 846 Method 3050B, Rev.2: Dec.1996 and 7471B, Rev.2, Feb 2007
4.	Chloride	mg/kg	120	IBM Manual 6.19 D, Page No. 236
5.	Sulphate	mg/kg	107	IS 2720 (Part XXVII):1977, Reaffirmed 2001

## END OF REPORT

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**Harish Mendhi**  
Technical Manager  
Chemical Testing





# Mahabal Enviro Engineers Pvt. Ltd.

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

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

## TEST REPORT

Report No.:	ME-NG03536-230304-SA- LODHA-THANE	Date:	04.03.2023
ULR No.:	TC748723000003274F		
Name and Address of Customer	LODHA CASA BELLA GOLD Nilje Usarghar Katai Naka, Kalyan, Thane	WO No.:	Verbal
		WO Date:	-
Sample Description / Type	Ambient Air	Sample Collected by	Laboratory
Sampling Location	Near STP Area	Sample Quantity / Packing	PM <sub>10</sub> : Filter Paper 1 X 3 No PM <sub>2.5</sub> : Filter Paper 1 X 1 No. SO <sub>2</sub> : 30 mL X 6 No. PVC Bottle NO <sub>2</sub> : 30 mL X 6 No. PVC Bottle
Date of Sampling	23.02.2023 to 24.02.2023	Date of Receipt of Sample	26.02.2023
Sampling Procedure	As per Method reference		
Date of Start of Analysis	27.02.2023	Date of Completion of Analysis	01.03.2023

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	<b><u>Discipline: Chemical Testing;</u></b> <b><u>Product Group: Atmospheric</u></b> <b><u>Pollution (Ambient Air)</u></b>				
1	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	10.5	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	12.1	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	42	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	µg/m <sup>3</sup>	18	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30

## END OF REPORT

- Note:**
1. BQL: Below Quantification Limit.
  2. LOQ: Limit of Quantification.
  3. Duration of Sampling: 24h
  4. TWA: Time Weighted Average
  5. NAAQS: National Ambient Air Quality Standard
  6. #- NAAQS specified as: 24 h, TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>10</sub>, PM<sub>2.5</sub>, Lead and Ammonia; 1 h, TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
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Phone: 0712-2612162/2612212 email: nagpur@mahabal.com



## TEST REPORT

Report No.	ME-NG03538-230304-SA- LODHA-THANE	Date: 04.03.2023
ULR No.:	TC748723000003276F	

Name and Address of Customer	LODHA CASA BELLA GOLD Nilje Usarghar Katai Naka, Kalyan, Thane		WO No. : Verbal WO Date : -
Sample Description / Type	Stack Emission	Sample Collected by	Laboratory
Sampling Location	D.G. Set 320 kVA	Sample Quantity / Packing	Thimble PM: 1 X 1 No. SO <sub>2</sub> : 30mL X 1 No. PVC Bottle NO <sub>x</sub> : 25mL X 1 No. PVC Bottle
Date of Sampling	24.02.2023	Date of Receipt of Sample	26.02.2023
Sampling Procedure	As per Method reference		
Date of Start of Analysis	27.02.2023	Date of Completion of Analysis	01.03.2023

<b>Stack Details</b>	
Stack Identity	Stack - I
Stack attached to	D.G. Set 320 kVA
Material of construction	M.S.
Stack height above ground level (Meter)	3
Stack diameter (Meter)	0.15
Stack shape at top	Round
Type of fuel	Diesel
Fuel Consumption (L/h)	-

Sr. No.	Parameter	Unit	Result	Method Reference
<b>Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)</b>				
1	Flue gas Temperature	°C	143	IS 11255 (Part 3): 2008; RA 2018
2	Flue gas Velocity	m/s	10.5	IS 11255 (Part 3): 2008; RA 2018
3	Total gas quantity	Nm <sup>3</sup> /h	475	IS 11255 (Part 3): 2008; RA 2018
4	Particulate Matter (PM)	mg/Nm <sup>3</sup>	21	IS 11255 (Part 1): 1985; RA 2019
5	Sulphur Dioxide (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	11	IS 11255 (Part 2): 1985; RA 2019
6	Oxides of Nitrogen (NO <sub>x</sub> )	mg/Nm <sup>3</sup>	180	IS 11255 (Part 7): 2005; RA 2017

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24.12.2022

*Harish Mendhi*  
**Harish Mendhi**  
Technical Manager  
Chemical Testing







# Mahabal Enviro Engineers Pvt. Ltd.

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

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



## TEST REPORT

Report No :	ME-NG03538-230304-SA- LODHA-THANE	Date: 04.03.2023
ULR No :	TC748723000003276F	

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



## TEST REPORT

Report No.:	ME-NG03537-230228-SA-LODHA-THANE	Date: 28.02.2023
ULR No.:	TC748723000003275F	

Name and Address of Customer	LODHA CASA BELLA GOLD Nilje Usarghar Katal Naka, Kalyan, Thane	WO No. Verbal WO Date: -
Sample Description / Type	Ambient Noise	
Date of Sampling	23.02.2023 to 24.02.2023	Sampling Procedure IS 9876:1981

Sr. No.	Location	Day Time in h	Sound Level $L_{eq}$ dB (A) Fast Response	Sound Level $L_{eq}$ dB (A) Slow Response	Night Time in h	Sound Level $L_{eq}$ dB (A) Fast Response	Sound Level $L_{eq}$ dB (A) Slow Response
	<u>Discipline:</u> <u>Chemical</u> <u>Testing; Product</u> <u>Group:</u> <u>Atmospheric</u> <u>Pollution</u> <u>(Ambient Noise)</u>						
1	Casa Bella Gold Entry Gate Near Highway	06:00-22:00	69.8	67.1	22:00-6:00	63.1	62.7
2	I Think Building	06:00-22:00	62.4	59.7	22:00-6:00	57.1	54.8
3	Xperia Mall Main Gate	06:00-22:00	67.8	65.4	22:00-6:00	59.1	57.3
4	Nr. Lodha World School Gate	06:00-22:00	67.2	65.1	22:00-6:00	57.9	55.2
5	MSEB Office	06:00-22:00	63.3	61.2	22:00-6:00	58.5	56.1
6	PCM Office Back Side	06:00-22:00	64.3	62.8	22:00-6:00	61.8	58.2
7	Casa Bella Gold Main Gate	06:00-22:00	65.3	63.2	22:00-6:00	58.2	56.5
8	Nr. STP Area	06:00-22:00	62.8	60.5	22:00-6:00	55.3	52.8
9	Casa Bella Gold Garden	06:00-22:00	61.2	59.3	22:00-6:00	52.6	50.8
10	Roman Building	06:00-22:00	67.3	65.4	22:00-6:00	63.2	60.8







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## TEST REPORT

Report No.	ME-NG03537-230228-SA-LODHA-THANE	Date: 28.02.2023
ULR No.	TC748723000003275F	

As per The Noise Pollution (Regulation & Control) Rules, 2000 (Rules 3(1) and 4(1))			
Area Code	Area Type	Limits in dB (A) weighted scale	
		Day Time (6:00 a.m. to 10:00 p.m.)	Night Time (10:00 p.m. to 6:00 a.m.)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

## END OF REPORT

- Note:**
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## TEST REPORT

Report No.:	ME-NG03540-230308-SA- LODHA-THANE	Date: 08.03.2023
ULR No.:	TC748723000003278F	

Name and Address of Customer	LODHA CASA BELLA GOLD Nilje Usarghar Katai Naka, Kalyan, Thane		WO No.: Verbal WO Date: -
Sample Description / Type	Domestic Effluent	Sample Collected by	Laboratory
Sampling Location	STP Inlet	Sample Quantity / Packing	2 L X 1 No. PVC Can 100mL X 1 No. PVC Can 1L X 1 No. Glass Bottle
Date of Sampling	25.02.2023	Date of Receipt of Sample	26.02.2023
Sampling Procedure	IS:3025(Part I):1987, RA 2019, APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40		
Date of Start of Analysis	26.02.2023	Date of Completion of Analysis	06.03.2023

Sr. No.	Parameter	Unit	Result	Method Reference
	<b>Discipline: Chemical Testing; Product Group: Pollution &amp; Environment (Waste Water)</b>			
1.	pH	-	6.7	APHA 23 <sup>rd</sup> Ed. 2017, 4500-H <sup>+</sup> -B, 4-95
2.	Total Suspended Solids	mg/L	150	APHA 23 <sup>rd</sup> Ed. 2017, 2540-D, 2-70
3.	Dissolved Oxygen	mg/L	1.5	APHA 23 <sup>rd</sup> Ed. 2017, 4500-O, B, 4-144 & C, 4-146
4.	Biochemical Oxygen Demand (3 days 27°C)	mg/L	35	IS 3025 (Part 44): 1993, RA 2019
5.	Chemical Oxygen Demand	mg/L	92	APHA 23 <sup>rd</sup> Ed. 2017, 5220-B, 5-18
6.	Oil and Grease	mg/L	BQL (LOQ:1)	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1

## END OF REPORT

- Note:**
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## TEST REPORT

Report No.:	ME-NG03541-230308-SA- LODHA-THANE	Date: 08.03.2023
ULR No.:	TC748723000003278F	

Name and Address of Customer	<b>LODHA CASA BELLA GOLD</b> <b>Nilje Usarghar Katai Naka,</b> <b>Kalyan, Thane</b>		WO No. Verbal WO Date: -
Sample Description / Type	Domestic Effluent	Sample Collected by	Laboratory
Sampling Location	STP Outlet	Sample Quantity / Packing	2 L X 1 No. PVC Can 100mL X 1 No. PVC Can 1L X 1 No. Glass Bottle
Date of Sampling	25.02.2023	Date of Receipt of Sample	26.02.2023
Sampling Procedure	IS.3025(Part I):1987, RA 2019; APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40		
Date of Start of Analysis	26.02.2023	Date of Completion of Analysis	06.03.2023

Sr. No.	Parameter	Unit	Result	Method Reference
	<b><u>Discipline: Chemical Testing;</u></b> <b><u>Product Group: Pollution &amp; Environment (Waste Water)</u></b>			
1.	pH	-	7.5	APHA 23 <sup>rd</sup> Ed. 2017, 4500-H <sup>+</sup> -B, 4-95
2.	Total Suspended Solids	mg/L	BQL (LOQ:5)	APHA 23 <sup>rd</sup> Ed. 2017, 2540-D, 2-70
3.	Dissolved Oxygen	mg/L	5.8	APHA 23 <sup>rd</sup> Ed. 2017, 4500-O, B, 4-144 & C, 4-146
4.	Biochemical Oxygen Demand (3 days 27°C)	mg/L	5.8	IS 3025 (Part 44): 1993, RA 2019
5.	Chemical Oxygen Demand	mg/L	20	APHA 23 <sup>rd</sup> Ed. 2017, 5220-B, 5-18
6.	Oil and Grease	mg/L	BQL (LOQ:1)	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1

## END OF REPORT

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Issue No 03  
Date 05.12.2019  
Amd 01 Date  
24.12.2022

*Harish Mendhi*  
**Harish Mendhi**  
Technical Manager  
Chemical Testing





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## TEST REPORT

Report No	ME-NG00540-230116-SA- LODHA-THANE	Date: 16.01.2023
ULR No	TC748723000000478F	

Name and Address of Customer	<b>LODHA CASA BELLA GOLD</b> <b>Nilje Usarghar Katai Naka,</b> <b>Kalyan, Thane</b>		WO No.: Verbal WO Date: -
Sample Description / Type	Drinking water	Sample Collected by	Laboratory
Sampling Location	MSEB PCM Office Tap water	Sample Quantity / Packing	2L X 1 No. PVC Can 500 mL X 1 No. PVC Can 250 mL X 1 No. Sterilized Glass Bottle
Date of Sampling	09.01.2023	Date of Receipt of Sample	10.01.2023
Sampling Procedure	IS:3025(Part I):1987 RA 2019, IS 1622:1981 RA 2019, APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40; 9060 A, 9-36		
Date of Start of Analysis	10.01.2023	Date of Completion of Analysis	16.01.2023

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
	<b>Discipline: Chemical Testing;</b> <b>Product Group: Water</b> <b>(Drinking Water)</b>				
1.	Colour	Hazen	BQL (LOQ:1)	5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 2120-B, 2-6
2.	Odour	-	Agreeable	Agreeable	IS 3025 (Part 05) 1984, RA 2018
3.	Turbidity	NTU	0.3	1 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 2130-B, 2-13
4.	pH	-	7.7	6.5 to 8.5	APHA 23 <sup>rd</sup> Ed. 2017, 4500-H <sup>+</sup> -B, 4-95
5.	Total Dissolved Solids	mg/L	112	500 Max.	IS 3025 (Part 16) 1984 RA 2017, Ed 2.1 (1999-12)
6.	Alkalinity Total (as CaCO <sub>3</sub> )	mg/L	62	200 Max.	IS 3025 (Part 23) 1986 Reaffirmed 2019 Amds 1
7.	Total Hardness (as CaCO <sub>3</sub> )	mg/L	74	200 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 2340-C, 2-48
8.	Calcium (as Ca)	mg/L	15	75 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Ca-B, 3-69
9.	Magnesium (as Mg)	mg/L	8.8	30 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Mg-B, 3-88
10.	Free Chlorine (Residual)	mg/L	BQL (LOQ:0.05)	0.2 min.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl G, 4-72
11.	Chloride (as Cl)	mg/L	19.0	250 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl-B, 4-75
12.	Sulphate (as SO <sub>4</sub> )	mg/L	7.2	200 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-SO <sub>4</sub> -E, 4-159







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## TEST REPORT

Report No.:	ME-NG00540-230116-SA- LODHA-THANE	Date: 16.01.2023
ULR No.:	TC748723000000478F	

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
13.	Nitrate (as NO <sub>3</sub> )	mg/L	0.82	45 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-NO <sub>3</sub> , E 4-131
14.	Fluoride (as F)	mg/L	0.21	1 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-F, D, 4-90
	<b>Residues in water (Trace metal Element)</b>				
15.	Iron (as Fe)	mg/L	0.108	1.0 Max.	IS:3025 (Part 2), 2019
	<b>Discipline: Biological Testing; Product Group: Water (Drinking water)</b>				
16.	Total Coliforms	/100mL	Absent	Shall not be detectable in any 100 mL Sample	IS 15185:2016
17.	<i>Escherichia coli</i>	/100mL	Absent	Shall not be detectable in any 100 mL Sample	IS 15185:2016

## END OF REPORT

- Note:**
1. BQL: Below Quantification Limit.
  2. LOQ: Limit of Quantification.
  3. # Acceptable Limit as per IS 10500:2012; RA 2018.
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## TEST REPORT

Report No.:	ME-NG00539-230119- SA- LODHA-THANE	Date: 19.01.2023
ULR No.:	TC748723000000478F	

Name and Address of Customer	LODHA CASA BELLA GOLD Nilje Usarghar Katai Naka, Kalyan, Thane		WO No.: Verbal WO Date: -
Sample Description / Type	Ambient Noise		
Date of Sampling	07.01.2023 to 08.01.2023	Sampling Procedure	IS 9876:1981

Sr. No.	Location	Day Time in h	Sound Level $L_{eq}$ dB (A) Fast Response	Sound Level $L_{eq}$ dB (A) Slow Response	Night Time in h	Sound Level $L_{eq}$ dB (A) Fast Response	Sound Level $L_{eq}$ dB (A) Slow Response
	<u>Discipline:</u> <u>Chemical</u> <u>Testing: Product</u> <u>Group:</u> <u>Atmospheric</u> <u>Pollution</u> <u>(Ambient Noise)</u>						
1	Casa Bella Gold Entry Gate Near Highway	06:00-22:00	68.8	65.3	22:00-6:00	64.3	62.6
2	I Think Building	06:00-22:00	62.8	60.6	22:00-6:00	58.3	56.2
3	Xperia Mall Main Gate	06:00-22:00	65.3	64.8	22:00-6:00	58.2	57.5
4	Nr. Lodha World School Gate	06:00-22:00	65.6	63.8	22:00-6:00	55.3	54.3
5	MSEB Office	06:00-22:00	64.2	62.8	22:00-6:00	59.6	57.3
6	PCM Office Back Side	06:00-22:00	67.3	65.7	22:00-6:00	62.8	60.8
7	Casa Bella Gold Main Gate	06:00-22:00	66.4	64.8	22:00-6:00	60.7	58.3
8	Nr. STP Area	06:00-22:00	63.7	61.8	22:00-6:00	56.5	54.8
9	Casa Bella Gold Garden	06:00-22:00	62.3	59.6	22:00-6:00	54.3	52.6
10	Roman Building	06:00-22:00	69.8	67.6	22:00-6:00	64.3	62.8





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## TEST REPORT

Report No.:	ME-NG00539-230119- SA- LODHA-THANE	Date: 19.01.2023
ULR No.:	TC748723000000478F	

As per The Noise Pollution (Regulation & Control) Rules, 2000 (Rules 3(1) and 4(1))			
Area Code	Area Type	Limits in dB (A) weighted scale	
		Day Time (6:00 a.m. to 10:00 p.m.)	Night Time (10:00 p.m. to 6:00 a.m.)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

## END OF REPORT

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## TEST REPORT

Report No.:	ME-NG03537-230228-SA-LODHA-THANE	Date: 28.02.2023
ULR No.:	TC748723000003201F	

Name and Address of Customer	LODHA CASA BELLA GOLD Nilje Usarghar Katai Naka, Kalyan, Thane		WO No.: Verbal WO Date: -
Sample Description / Type	Ambient Noise		
Date of Sampling	23.02.2023 to 24.02.2023	Sampling Procedure	IS 9876:1981

Sr. No.	Location	Day Time in h	Sound Level $L_{eq}$ dB (A) Fast Response	Sound Level $L_{eq}$ dB (A) Slow Response	Night Time in h	Sound Level $L_{eq}$ dB (A) Fast Response	Sound Level $L_{eq}$ dB (A) Slow Response
	<u>Discipline:</u> <u>Chemical</u> <u>Testing; Product</u> <u>Group:</u> <u>Atmospheric</u> <u>Pollution</u> <u>(Ambient Noise)</u>						
1	Casa Bella Gold Entry Gate Near Highway	06:00-22:00	69.8	67.1	22:00-6:00	63.1	62.7
2	I Think Building	06:00-22:00	62.4	59.7	22:00-6:00	57.1	54.8
3	Xperia Mall Main Gate	06:00-22:00	67.8	65.4	22:00-6:00	59.1	57.3
4	Nr. Lodha World School Gate	06:00-22:00	67.2	65.1	22:00-6:00	67.9	55.2
5	MSEB Office	06:00-22:00	63.3	61.2	22:00-6:00	68.5	56.1
6	PCM Office Back Side	06:00-22:00	64.3	62.8	22:00-6:00	61.8	58.2
7	Casa Bella Gold Main Gate	06:00-22:00	65.3	63.2	22:00-6:00	58.2	56.5
8	Nr. STP Area	06:00-22:00	62.8	60.5	22:00-6:00	55.3	52.8
9	Casa Bella Gold Garden	06:00-22:00	61.2	59.3	22:00-6:00	52.6	50.8
10	Roman Building	06:00-22:00	67.3	65.4	22:00-6:00	63.2	60.8





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## TEST REPORT

Report No.:	ME-NG03537-230228-SA-LODHA-THANE	Date: 28.02.2023
ULR No.:	TC748723000003201F	

As per The Noise Pollution (Regulation & Control) Rules, 2000 (Rules 3(1) and 4(1))			
Area Code	Area Type	Limits in dB (A) weighted scale	
		Day Time (6:00 a.m. to 10:00 p.m.)	Night Time (10:00 p.m. to 6:00 a.m.)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

## END OF REPORT

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## TEST REPORT

Report No.:	ME-NG00537-230112-SA- LODHA-THANE	Date: 12.01.2023
ULR No.:	TC748723000000476F	

Name and Address of Customer	LODHA CASA BELLA GOLD Nilje Usarghar Katal Naka, Kalyan, Thane		WO No.: Verbal WO Date: -
Sample Description / Type	Ambient Air	Sample Collected by	Laboratory
Sampling Location	Near STP Plant	Sample Quantity / Packing	PM <sub>10</sub> : Filter Paper 1 X 3 No. PM <sub>2.5</sub> : Filter Paper 1 X 1 No. SO <sub>2</sub> : 30 mL X 6 No. PVC Bottle NO <sub>2</sub> : 30 mL X 6 No. PVC Bottle
Date of Sampling	07.01.2023 TO 08.01.2023	Date of Receipt of Sample	10.01.2023
Sampling Procedure	As per Method reference		
Date of Start of Analysis	11.01.2023	Date of Completion of Analysis	12.01.2023

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	<b>Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)</b>				
1	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	9.1	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	11.7	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	62	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4	Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	µg/m <sup>3</sup>	25	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30

## END OF REPORT

- Note:**
1. BQL: Below Quantification Limit.
  2. LOQ: Limit of Quantification
  3. Duration of Sampling: 24h
  4. TWA: Time Weighted Average
  5. NAAQS: National Ambient Air Quality Standard
  6. #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>10</sub>, PM<sub>2.5</sub>, Lead and Ammonia; 1 h. TWA in case of Carbon Monoxide, Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.
  7. The result listed refers only to the tested sample(s) and applicable parameter(s).
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Issue No 03  
Date 05.12.2019.  
Amd 02 Date  
24.12.2022

*Harish Mendhi*  
**Harish Mendhi**  
Technical Manager  
Chemical Testing





# Mahabal Enviro Engineers Pvt. Ltd.

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## TEST REPORT

Report No.:	ME-NG00543-230123-SA- LODHA-THANE	Date: 23.01.2023
ULR No.:	TC748723000000482F	

Name and Address of Customer	LODHA CASA BELLA GOLD Nilje Usarghar Katai Naka, Kalyan, Thane		WO No.: Verbal WO Date: -
Sample Description / Type	Soil	Sample Collected by	Laboratory
Sampling Location	Casa Bela Gold Garden	Sample Quantity / Packing	2 kg X 1 No. Polyethene bag
Date of Sampling	08.01.2023	Date of Receipt of Sample	10.01.2023
Sampling Procedure	Manual of Soil Testing, Department of Agriculture & Cooperation, Ministry of Agriculture, Govt. India		
Date of Start of Analysis	11.01.2023	Date of Completion of Analysis	23.01.2023

Sr. No.	Parameter	Unit	Result	Method Reference
	<b>Discipline: Chemical Testing; Product Group: Pollution &amp; Environment (Soil)</b>			
1.	pH (1+5)	-	8.5	FAO 1976, Sec.III,1, Page No. 65
2.	Moisture Content	%	21.8	IS 2720 (Part II): 1973, RA 2002, Ed. 3.1
3.	Cation Exchange Capacity	meq/100gm	42.0	FAO Sec. III 7-2, Page No. 104
4.	Organic Carbon	%	0.202	Manual of Soil Testing, Department of Agriculture & Cooperation, Ministry of Agriculture, Govt. India, Sec.4-17, Page No 83.
5.	Total Cadmium	mg/kg	BQL (LOQ:2)	USEPA/SW 846 Method 3050B, Rev.2: Dec.1996 and 7000B, Rev 2, Feb 2007
6.	Total Chromium	mg/kg	58.1	USEPA/SW 846 Method 3050B, Rev.2: Dec.1996 and 7000B, Rev 2, Feb 2007
7.	Available Boron as B	mg/kg	BQL (LOQ:0.2)	Manual of Soil Testing, Department of Agriculture & Cooperation, Ministry of Agriculture Govt. India, Sec 17-B page No 115
8.	Total Copper	mg/kg	68.0	USEPA/SW 846 Method 3050B, Rev.2: Dec.1996 and 7000B, Rev 2, Feb 2007
9.	Total Lead	mg/kg	5.09	USEPA/SW 846 Method 3050B, Rev.2: Dec.1996 and 7000B, Rev 2, Feb 2007
10.	Total Nickel	mg/kg	73.4	USEPA/SW 846 Method 3050B, Rev.2: Dec.1996 and 7000B, Rev 2, Feb 2007
11.	Available Calcium	meq/ 100gm	35.6	FAO Sec.III B-1, Page No. 115

Page 1 of 2  
QF/SALE/02  
Issue No 03  
Date 05.12.2019  
Amd 01 Date  
24.12.2022

*Harish Mendhi*  
**Harish Mendhi**  
Technical Manager  
Chemical Testing







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



## TEST REPORT

Report No.:	ME-NG00543-230123-SA- LODHA-THANE	Date: 23.01.2023
ULR No.:	TC748723000000482F	

Sr. No.	Parameter	Unit	Result	Method Reference
12.	Available Magnesium	meq/ 100gm	4.40	FAO Sec.III 8-1, Page No. 115
13.	Available Potassium	meq/100gm	0.515	FAO Sec.III 8-1, Page No. 115
14.	Total Phosphate	mg/kg	768	Manual for method of water, Soil and Plant analysis WL II, Page No 19
15.	Total Zinc	mg/kg	51.4	USEPA/SW 846 Method 3050B, Rev 2: Dec.1996 and 7000B, Rev 2, Feb 2007
16.	Available Sodium	meq/ 100gm	0.659	FAO Sec. III 8-1, Page No. 115

## END OF REPORT

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## TEST REPORT

Report No.:	ME-NG00543N-230123-SA- LODHA-THANE	Date: 23.01.2023
ULR No.:	-	

Name and Address of Customer	LODHA CASA BELLA GOLD Nilje Usarghar Katai Naka, Kalyan, Thane		WO No.: Verbal WO Date: -
Sample Description / Type	Soil	Sample Collected by	Laboratory
Sampling Location	Casa Bela Gold Garden	Sample Quantity / Packing	2 kg X 1 No. Polyethene bag
Date of Sampling	08.01.2023	Date of Receipt of Sample	10.01.2023
Sampling Procedure	Manual of Soil Testing, Department of Agriculture & Cooperation, Ministry of Agriculture, Govt. India		
Date of Start of Analysis	11.01.2023	Date of Completion of Analysis	23.01.2023

Sr. No.	Parameter	Unit	Result	Method Reference
	<b>Discipline: Chemical Testing; Product Group: Pollution &amp; Environment (Soil)</b>			
1.	Water Retaining capacity	%	75.8	IBM Manual page No.264
2.	Total Nitrogen	mg/kg	1253	WL II Page No. 11
3.	Mercury	mg/kg	BQL (LOQ:0.1)	USEPA/SW 846 Method 3050B, Rev.2: Dec.1996 and 7471B, Rev.2, Feb 2007
4.	Chloride	mg/kg	130	IBM Manual 6.19 D. Page No. 236
5.	Sulphate	mg/kg	38.3	IS 2720 (Part XXVII) 1977, Reaffirmed 2001

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## Test Report

<b>Report No.:</b> ME-NG19578-221224-SA-LODHA-THANE		<b>Date:</b> 24.12.2022	
<b>Name and Address of Customer</b>	<b>LODHA CASA BELLA GOLD</b> Nilje Usarghar Katal Naka, Kalyan, Thane		<b>Order Reference:</b>
			Verbal
<b>Sample Description/Type</b>	Stack Emission	<b>Sample Collected by</b>	Laboratory
<b>Sampling Location</b>	D.G. Set 320 KVA	<b>Sample Quantity/Packing</b>	Thimble: 1 X 1 No. SO <sub>2</sub> : 30 mL X 1 No. PVC Bottle NO <sub>x</sub> : 25mL X 1 No. PVC Bottle
<b>Date of Sampling</b>	18.12.2022	<b>Date of Receipt of Sample</b>	19.12.2022
<b>Sampling Procedure</b>	As per Method reference		
<b>Date of Start of Analysis</b>	20.12.2022	<b>Date of Completion of Analysis</b>	21.12.2022

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

### Stack Details

Stack Identity	<b>Stack - 1</b>
Stack attached to	<b>D.G. Set 320 KVA</b>
Material of construction	M.S.
Stack height above ground level (Meter)	3
Stack diameter (Meter)	0.15
Stack shape at top	Round
Type of fuel	Diesel
Fuel Consumption (L/h)	-

Sr.No.	Parameter	Unit	Result	Method Reference
1	Flue gas Temperature	°C	130	IS 11255 (Part 3):2008; RA 2018
2	Flue gas Velocity	m/s	10.1	IS 11255 (Part 3):2008; RA 2018
3	Total gas quantity	Nm <sup>3</sup> /h	474	IS 11255 (Part 3):2008; RA 2018
4	Particulate Matter (PM)	mg/Nm <sup>3</sup>	38	IS 11255 (Part 1):1985 RA 2019
5	Sulphur Dioxide (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	11	IS 11255 (Part 2):1985 RA 2019
6	Oxide of Nitrogen (NO <sub>x</sub> )	mg/Nm <sup>3</sup>	180	IS 11255 (Part 7): 2005; RA 2017

### Remarks:

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*Harish Mendhi*

Harish Mendhi

TECHNICAL MANAGER



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## Test Report

<b>Report No.:</b> ME-NG19577-221224-SA-LODHA-THANE				<b>Date:</b> 24.12.2022	
<b>Name and Address of Customer</b>		<b>LODHA CASA BELLA GOLD</b> Nilje Usarghar Katai Naka, Kalyan, Thane		<b>Order Reference:</b>	
				Verbal	
<b>Sample Description/Type</b>	Ambient Air	<b>Sample Collected by</b>	Laboratory		
<b>Sampling Location</b>	Near STP Area	<b>Sample Quantity/Packing</b>	PM <sub>10</sub> : Filter Paper 1 X 3 No. PM <sub>2.5</sub> : Filter Paper 1 X 1 No. SO <sub>2</sub> : 30 mL X 6 No. PVC Bottle NO <sub>2</sub> : 30 mL X 6 No. PVC Bottle		
<b>Date of Sampling</b>	17.12.2022 to 18.12.2022	<b>Date of Receipt of Sample</b>	19.12.2022		
<b>Sampling Procedure</b>	As per Method reference				
<b>Date of Start of Analysis</b>	20.12.2022	<b>Date of Completion of Analysis</b>	21.12.2022		
<b>Sr. No.</b>	<b>Parameter</b>	<b>Unit</b>	<b>Result</b>	<b>#NAAQM Standard</b>	<b>Method Reference</b>
<b>Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)</b>					
<b>Location</b>	Near STP Area		<b>Duration of Survey</b>		24 hours.
1.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	9.9	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2.	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	11.2	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3.	Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	56	100	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.11-14
4.	Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	µg/m <sup>3</sup>	26	60	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.15-30
<b>Remarks:</b> TWA - Time Weighted Average, # - NAAQS specified as: 24 h. TWA in case of SO <sub>2</sub> , NO <sub>2</sub> , PM <sub>10</sub> , PM <sub>2.5</sub>					

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Harish Mendhi

TECHNICAL MANAGER



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## TEST REPORT

Report No.	ME-NG01758-230206- SA-JGALA-MUMBAI	Date: 06.02.2023
ULR No.	TC748723000001628F	

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
13.	Nitrate (as NO <sub>3</sub> )	mg/L	0.76	45 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-NO <sub>3</sub> , E 4-131
14.	Fluoride (as F)	mg/L	0.26	1 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-F, D. 4-90
	<b>Residues in water (Trace metal Element)</b>				
15.	Iron (as Fe)	mg/L	0.170	1.0 Max.	IS 3025 (Part 2), 2019
	<b>Discipline: Biological Testing; Product Group: Water (Drinking water)</b>				
16.	Total Coliforms	/100mL	Absent	Shall not be detectable in any 100 mL Sample.	IS 15185:2016
17.	<i>Escherichia coli</i>	/100mL	Absent	Shall not be detectable in any 100 mL Sample.	IS 15185:2016

## END OF REPORT

- Note:**
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  2. LOQ: Limit of Quantification.
  3. #. Acceptable Limit as per IS 10500:2012; RA 2018.
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## Test Report

Report No.: ME- NG19579-221226-SA-LODHA-THANE		Date: 26.12.2022
Name and Address of Customer	LODHA CASA BELLA GOLD Nilje Usarghar Katai Naka, Kalyan, Thane	Order Reference:
		Verbal
Sample Description/Type	Ambient Noise Level Monitoring	
Date of Sampling	17.12.2022 to 18.12.2022	
Sampling Procedure	IS 9876:1981	

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

Sr. No.	Location	Time in h	Sound Level dB(A) Fast Response	Sound Level dB(A) Slow Response
1	A. Casa Bela Gold Entry Gate Near Highway	06:00 to 22:00	69.8	66.4
		22:00 to 06:00	66.7	63.5
2	B. I think Building	06:00 to 22:00	63.4	60.8
		22:00 to 06:00	59.5	55.6
3	C. X- Peria Mall Main Gate	06:00 to 22:00	66.4	63.2
		22:00 to 06:00	59.8	57.5
4	D. Near Lodha World School Gate	06:00 to 22:00	66.3	64.2
		22:00 to 06:00	57.3	55.5
5	E. MSEB Office	06:00 to 22:00	65.4	63.3
		22:00 to 06:00	60.8	58.5
6	F. PCM Office Backside	06:00 to 22:00	68.7	66.3
		22:00 to 06:00	63.4	61.4
7	G. Casa Bella Gold Main Gate	06:00 to 22:00	67.3	65.4
		22:00 to 06:00	61.8	59.5

ULR- TC748722000018175F



*Signature*





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Report No.19579 Continued...

Report No.1579 Continued...

Sr. No.	Location	Time in h	Sound Level dB(A) Fast Response	Sound Level dB(A) Slow Response
8	H. Near STP Area	06:00 to 22:00	64.3	62.1
		22:00 to 06:00	57.3	55.4
9	I. Casa Bella Gold Garden	06:00 to 22:00	63.4	60.5
		22:00 to 06:00	55.4	53.2
10	J. Roman Building	06:00 to 22:00	70.0	68.7
		22:00 to 06:00	65.4	63.9
THE NOISE POLLUTION (REGULATION AND CONTROL) RULES, 2000				
Area Code	Area Type	Limit in dB(A) weighted scale		
		Day Time (6:00a.m. to 10:00 p.m.)	Night Time (10:00 p.m. to 6:00 a.m.)	
A	Industrial	75	70	
B	Commercial	65	60	
C	Residential	50	45	
D	Silence Zone	50	40	

END

FOR MAHABAL ENVIRO ENGINEERS PVT. LTD.

Harsh Mendhi

TECHNICAL MANAGER



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## TEST REPORT

Report No.:	ME-NG00541-230116-SA- LODHA-THANE	Date: 16.01.2023
ULR No.:	TC748723000000480F	

Name and Address of Customer	LODHA CASA BELLA GOLD Nilje Usarghar Katai Naka, Kalyan, Thane		WO No.: Verbal WO Date: -
Sample Description / Type	Domestic Effluent	Sample Collected by	Laboratory
Sampling Location	STP Inlet	Sample Quantity / Packing	2 L X 1 No. PVC Can 100mL X 1 No. PVC Can 1L X 1 No. Glass Bottle
Date of Sampling	09.01.2023	Date of Receipt of Sample	10.01.2023
Sampling Procedure	IS: 3025(Part I): 1987, RA 2019, APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40		
Date of Start of Analysis	10.01.2023	Date of Completion of Analysis	15.01.2023

Sr. No.	Parameter	Unit	Result	Method Reference
	<b>Discipline: Chemical Testing; Product Group: Pollution &amp; Environment (Waste Water)</b>			
1.	pH	-	7.4	APHA 23 <sup>rd</sup> Ed. 2017, 4500-H <sup>+</sup> -B, 4-95
2.	Total Suspended Solids	mg/L	115	APHA 23 <sup>rd</sup> Ed. 2017, 2540-D, 2-70
3.	Dissolved Oxygen	mg/L	BQL (LOQ:0.5)	APHA 23 <sup>rd</sup> Ed. 2017, 4500-O, B, 4-144 & C, 4-146
4.	Biochemical Oxygen Demand (3 days 27°C)	mg/L	78	IS 3025 (Part 44): 1993, RA 2019
5.	Chemical Oxygen Demand	mg/L	244	APHA 23 <sup>rd</sup> Ed. 2017, 5220-B, 5-18
6.	Oil and Grease	mg/L	BQL (LOQ:1)	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds. 1

## END OF REPORT

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## TEST REPORT

Report No.	ME-NG00542-230116-SA- LODHA-THANE	Date: 16.01.2023
ULR No.	TC748723000000481F	

Name and Address of Customer	LODHA CASA BELLA GOLD Nilje Usarghar Katai Naka, Kalyan, Thane		WO No.: Verbal WO Date: -
Sample Description / Type	Domestic Effluent	Sample Collected by	Laboratory
Sampling Location	STP Outlet	Sample Quantity / Packing	2 L X 1 No. PVC Can 100mL X 1 No. PVC Can 1L X 1 No. Glass Bottle
Date of Sampling	09.01.2023	Date of Receipt of Sample	10.01.2023
Sampling Procedure	IS:3025(Part I): 1987, RA 2019, APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40		
Date of Start of Analysis	10.01.2023	Date of Completion of Analysis	15.01.2023

Sr. No.	Parameter	Unit	Result	Method Reference
	<b>Discipline: Chemical Testing; Product Group: Pollution &amp; Environment (Waste Water)</b>			
1.	pH	-	7.4	APHA 23 <sup>rd</sup> Ed. 2017, 4500-H <sup>+</sup> -B, 4-95
2.	Total Suspended Solids	mg/L	15	APHA 23 <sup>rd</sup> Ed. 2017, 2540-D, 2-70
3.	Dissolved Oxygen	mg/L	5.1	APHA 23 <sup>rd</sup> Ed. 2017, 4500-O, B, 4-144 & C, 4-146
4.	Biochemical Oxygen Demand (3 days 27°C)	mg/L	11	IS 3025 (Part 44): 1993, RA 2019
5.	Chemical Oxygen Demand	mg/L	36	APHA 23 <sup>rd</sup> Ed. 2017, 5220-B, 5-18
6.	Oil and Grease	mg/L	BQL (LOQ:1)	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1

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## TEST REPORT

Report No.:	ME-NG19581-221228-SA- LODHA-THANE	Date: 28.12.2022
ULR No.:	TC748722000018177F	

Name and Address of Customer	LODHA CASA BELLA GOLD Nilje Usarghar Katai Naka, Kalyan, Thane		WO No.: Verbal WO Date: -
Sample Description / Type	Domestic Effluent	Sample Collected by	Laboratory
Sampling Location	STP Inlet	Sample Quantity / Packing	2 L X 1 No. PVC Can 100mL X 1 No. PVC Can 1L X 1 No. Glass Bottle
Date of Sampling	18.12.2022	Date of Receipt of Sample	19.12.2022
Sampling Procedure	IS:3025(Part I):1987, RA 2019; APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40		
Date of Start of Analysis	19.12.2022	Date of Completion of Analysis	27.12.2022

Sr. No.	Parameter	Unit	Result	Method Reference
	<b>Discipline: Chemical Testing; Product Group: Pollution &amp; Environment (Waste Water)</b>			
1.	pH	-	6.9	APHA 23 <sup>rd</sup> Ed. 2017, 4500-H <sup>+</sup> -B, 4-95
2.	Total Suspended Solids	mg/L	64	APHA 23 <sup>rd</sup> Ed. 2017, 2540-D, 2-70
3.	Dissolved Oxygen	mg/L	1.2	APHA 23 <sup>rd</sup> Ed. 2017, 4500-O, B, 4-144 & C, 4-146
4.	Biochemical Oxygen Demand (3 days 27°C)	mg/L	24	IS 3025 (Part 44): 1993, RA 2019
5.	Chemical Oxygen Demand	mg/L	80	APHA 23 <sup>rd</sup> Ed. 2017, 5220-B, 5-18
6.	Oil and Grease	mg/L	BQL (LOQ:1)	IS 3025 (Part 39): 1991, Reaffirmed 2008, Amds.1

## END OF REPORT

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## TEST REPORT

Report No.:	ME-NG19582-221228-SA- LODHA-THANE	Date: 28.12.2022
ULR No.:	TC748722000018178F	

Name and Address of Customer	LODHA CASA BELLA GOLD Nilje Usarghar Katal Naka, Kalyan, Thane		WO No.: Verbal WO Date: -
Sample Description / Type	Domestic Effluent	Sample Collected by	Laboratory
Sampling Location	STP Outlet	Sample Quantity / Packing	2 L X 1 No. PVC Can 100mL X 1 No. PVC Can 1L X 1 No. Glass Bottle
Date of Sampling	18.12.2022	Date of Receipt of Sample	19.12.2022
Sampling Procedure	IS:3025(Part I) 1987, RA 2019; APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40		
Date of Start of Analysis	19.12.2022	Date of Completion of Analysis	27.12.2022

Sr. No.	Parameter	Unit	Result	Method Reference
	<b>Discipline: Chemical Testing; Product Group: Pollution &amp; Environment (Waste Water)</b>			
1.	pH	-	7.5	APHA 23 <sup>rd</sup> Ed. 2017, 4500-H-B, 4-95
2.	Total Suspended Solids	mg/L	BQL (LOQ:5)	APHA 23 <sup>rd</sup> Ed. 2017, 2540-D, 2-70
3.	Dissolved Oxygen	mg/L	5.8	APHA 23 <sup>rd</sup> Ed. 2017, 4500-O, B, 4-144 & C, 4-145
4.	Biochemical Oxygen Demand (3 days 27°C)	mg/L	6.8	IS 3025 (Part 44): 1993, RA 2019
5.	Chemical Oxygen Demand	mg/L	20	APHA 23 <sup>rd</sup> Ed. 2017, 5220-B, 5-18
6.	Oil and Grease	mg/L	BQL (LOQ:1)	IS 3025 (Part 39): 1991, Reaffirmed 2009, Amds.1

## END OF REPORT

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## TEST REPORT

Report No.:	ME-NG00538-230114-SA-LODHA-THANE	Date: 14.01.2023
ULR No.:	TC748723000000477F	

Name and Address of Customer	LODHA CASA BELLA GOLD Nilje Usarghar Katal Naka, Kalyan, Thane		WO No.: Verbal WO Date: -
Sample Description / Type	Stack Emission	Sample Collected by	Laboratory
Sampling Location	D.G. Set 320 KVA	Sample Quantity / Packing	Thimble PM: 1 X 1 No. SO <sub>2</sub> : 30mL X 1No.PVC Bottle NO <sub>x</sub> : 25mL X 1No.PVC Bottle
Date of Sampling	08.01.2023	Date of Receipt of Sample	10.01.2023
Sampling Procedure	As per method reference		
Date of Start of Analysis	11.01.2023	Date of Completion of Analysis	13.01.2023

<b>Stack Details</b>	
Stack Identity	Stack - I
Stack attached to	D.G. Set 320 KVA
Material of construction	M.S
Stack height above ground level (Meter)	3
Stack diameter (Meter)	0.15
Stack shape at top	Round
Type of fuel	Diesel
Fuel Consumption (L/h)	-

Sr. No.	Parameter	Unit	Result	Method Reference
	<b>Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Stack Emission)</b>			
1	Flue gas Temperature	°C	136	IS 11255 (Part 3):2008; RA 2018
2	Flue gas Velocity	m/s	10.3	IS 11255 (Part 3):2008; RA 2018
3	Total gas quantity	Nm <sup>3</sup> /h	474	IS 11255 (Part 3):2008; RA 2018
4	Particulate Matter (PM)	mg/Nm <sup>3</sup>	30	IS 11255 (Part 1):1985 RA 2019
5	Sulphur Dioxide (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	16	IS 11255 (Part 2):1985; RA 2019
6	Oxides of Nitrogen (NO <sub>x</sub> )	mg/Nm <sup>3</sup>	202	IS 11255 (Part 7): 2005; RA 2017

END OF REPORT

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24.12.2022

**Harish Mendhi**  
Technical Manager  
Chemical Testing







# Mahabal Enviro Engineers Pvt. Ltd.

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



## TEST REPORT

Report No.:	ME-NG00538-230114-SA-LODHA-THANE	Date: 14.01.2023
ULR No.:	TC748723000000477F	

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

Report No.:	ME-NG19583-230102-SA- LODHA-THANE	Date: 02.01.2023
ULR No.:	TC748722000018179F	

Name and Address of Customer	LODHA CASA BELLA GOLD Nilje Usarghar Katai Naka, Kalyan, Thane		WO No.: Verbal WO Date: -
Sample Description / Type	Soil	Sample Collected by	Laboratory
Sampling Location	Casa Bela Gold Garden	Sample Quantity / Packing	1 kg X 1 No. Polyethene bag
Date of Sampling	17.12.2022	Date of Receipt of Sample	19.12.2022
Sampling Procedure	Manual of Soil Testing, Department of Agriculture & Cooperation, Ministry of Agriculture, Govt. India		
Date of Start of Analysis	21.12.2022	Date of Completion of Analysis	02.01.2023

Sr. No.	Parameter	Unit	Result	Method Reference
	<b>Discipline: Chemical Testing; Product Group: Pollution &amp; Environment (Soil)</b>			
1.	pH (1+5)	-	8.4	FAO 1976, Sec.III.1, Page No. 65
2.	Moisture Content	%	21.3	IS 2720 (Part II): 1973, RA 2002, Ed. 3.1
3.	Cation Exchange Capacity	meq/100gm	50.5	FAO Sec. III. 7-2, Page No. 104
4.	Organic Carbon	%	0.943	Manual of Soil Testing, Department of Agriculture & Cooperation, Ministry of Agriculture, Govt. India, Sec.4-17, Page No.83
5.	Total Cadmium	mg/kg	BQL (LOQ:2)	USEPA/SW 846 Method 3050B, Rev.2: Dec.1996 and 7000B, Rev.2, Feb 2007
6.	Total Chromium	mg/kg	64.2	USEPA/SW 846 Method 3050B, Rev.2: Dec.1996 and 7000B, Rev.2, Feb 2007
7.	Available Boron as B	mg/kg	0.776	Manual of Soil Testing, Department of Agriculture & Cooperation, Ministry of Agriculture Govt. India, Sec.17-B page No.115
8.	Total Copper	mg/kg	56.3	USEPA/SW 846 Method 3050B, Rev.2: Dec.1996 and 7000B, Rev.2, Feb 2007
9.	Total Lead	mg/kg	10.3	USEPA/SW 846 Method 3050B, Rev.2: Dec.1996 and 7000B, Rev.2, Feb 2007
10.	Total Nickel	mg/kg	54.3	USEPA/SW 846 Method 3050B, Rev.2: Dec.1996 and 7000B, Rev.2, Feb 2007
11.	Available Calcium	meq/ 100gm	43.1	FAO Sec.III.8-1, Page No. 115





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## TEST REPORT



Report No.:	ME-NG19583-230102-SA- LODHA-THANE	Date: 02.01.2023
ULR No.:	TC748722000018179F	

Sr. No.	Parameter	Unit	Result	Method Reference
12.	Available Magnesium	meq/ 100gm	5.99	FAO Sec.III.8-1, Page No. 115
13.	Available Potassium	meq/100gm	0.379	FAO Sec.III.8-1, Page No. 115
14.	Total Phosphate	mg/kg	613	Manual for method of water, Soil and Plant analysis WL II, Page No 16
15.	Total Zinc	mg/kg	55.9	USEPA/SW 846 Method 3050B, Rev.2: Dec.1996 and 7000B, Rev.2, Feb.2007
16.	Available Sodium	meq/ 100gm	0.794	FAO Sec. III.8-1, Page No. 115

## END OF REPORT

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## TEST REPORT

Report No.:	ME-NG19583N-230102-SA- LODHA-THANE	Date: 02.01.2023
ULR No.:	-	

Name and Address of Customer	LODHA CASA BELLA GOLD Nilje Usarghar Katai Naka, Kalyan, Thane		WO No.: Verbal WO Date: -
Sample Description / Type	Soil	Sample Collected by	Laboratory
Sampling Location	Casa Bela Gold Garden	Sample Quantity / Packing	2 kg X 1 No. Polyethene bag
Date of Sampling	17.12.2022	Date of Receipt of Sample	19.12.2022
Sampling Procedure	Manual of Soil Testing, Department of Agriculture & Cooperation, Ministry of Agriculture, Govt. India		
Date of Start of Analysis	21.12.2022	Date of Completion of Analysis	02.01.2023

Sr. No.	Parameter	Unit	Result	Method Reference
	<b>Discipline: Chemical Testing; Product Group: Pollution &amp; Environment (Soil)</b>			
1.	Water Retaining capacity	%	78.0	IBM Manual page No.264
2.	Total Nitrogen	mg/kg	1068	WL II Page No. 11
3.	Mercury	mg/kg	BQL (LOQ 0.1)	USEPA/SW 846 Method 3050B, Rev. 2: Dec. 1996 and 7471B, Rev. 2, Feb 2007
4.	Chloride	mg/kg	110	IBM Manual 6.19 D, Page No. 236
5.	Sulphate	mg/kg	47.3	IS 2720 (Part XXVII):1977, Reaffirmed 2001.

## END OF REPORT

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## TEST REPORT

Report No.:	ME-NG19580-221230-SA-LODHA-THANE	Date: 30.12.2022
ULR No.:	TC748722000018176F	

Name and Address of Customer	LODHA CASA BELLA GOLD Nilje Usarghar Katai Naka, Kalyan, Thane		WO No.: Verbal WO Date: -
Sample Description / Type	Drinking water	Sample Collected by	Laboratory
Sampling Location	Tap water MSEB PCM Office	Sample Quantity / Packing	2L X 1 No. PVC Can 500 mL X 1 No. PVC Can 250 mL X 1 No. Sterilized Glass Bottle
Date of Sampling	18.12.2022	Date of Receipt of Sample	19.12.2022
Sampling Procedure	IS:3025(Part I):1987 RA 2019, IS 1622:1981 RA 2019, APHA 23 <sup>rd</sup> Ed. 2017, 1060-B, 1-40; 9060 A, 9-36		
Date of Start of Analysis	19.12.2022	Date of Completion of Analysis	27.12.2022

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
	<b>Discipline: Chemical Testing; Product Group: Water (Drinking Water)</b>				
1.	Colour	Hazen	BQL (LOQ:1)	5 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 2120-B, 2-6
2.	Odour	-	Agreeable	Agreeable	IS 3025 (Part 05):1984, RA 2018
3.	Turbidity	NTU	0.3	1 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 2130-B, 2-13
4.	pH	-	7.4	6.5 to 8.5	APHA 23 <sup>rd</sup> Ed. 2017, 4500-H <sup>+</sup> -B, 4-95
5.	Total Dissolved Solids	mg/L	78	500 Max.	IS 3025 (Part 16):1984 RA 2017, Ed.2.1 (1999-12)
6.	Alkalinity Total (as CaCO <sub>3</sub> )	mg/L	38	200 Max.	IS 3025 (Part 23):1986 Reaffirmed 2019 Amds 1
7.	Total Hardness (as CaCO <sub>3</sub> )	mg/L	56	200 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 2340-C, 2-48
8.	Calcium (as Ca)	mg/L	15.2	75 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Ca-B, 3-69
9.	Magnesium (as Mg)	mg/L	4.4	30 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 3500-Mg-B, 3-86
10.	Free Chlorine (Residual)	mg/L	BQL (LOQ:0.05)	0.2 min.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl-G, 4-72
11.	Chloride (as Cl)	mg/L	12.0	250 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-Cl-B, 4-75
12.	Sulphate (as SO <sub>4</sub> )	mg/L	6.4	200 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-SO <sub>4</sub> -E, 4-199
13.	Nitrate (as NO <sub>3</sub> )	mg/L	1.11	45 Max.	APHA 23 <sup>rd</sup> Ed. 2017, 4500-NO <sub>3</sub> , E 4-131

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## TEST REPORT

Report No.:	ME-NG19580-221230-SA-LODHA-THANE	Date: 30.12.2022
ULR No.:	TC748722000018176F	

Sr. No.	Parameter	Unit	Result	#Limit	Method Reference
14.	Fluoride (as F)	mg/L	0.209	1 Max	APHA 23rd Ed. 2017, 4500-F, D, 4-80
	<b>Residues in water (Trace metal Element)</b>				
15.	Iron (as Fe)	mg/L	0.153	1.0 Max.	IS:3025 (Part 2), 2019
	<b>Discipline: Biological Testing; Product Group: Water (Drinking water)</b>				
16.	Total Coliforms	/100mL	Absent	Shall not be detectable in any 100 mL Sample.	IS 15185:2016
17.	E - coli	/100mL	Absent	Shall not be detectable in any 100 mL Sample.	IS 15185:2016

## END OF REPORT

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