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www.mahindralifespaces.com Date: 04th April, 2024

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

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

Dear Sir,

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

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

2.

Mumbai

CC copy to:

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

Member Secretary, Maharashtra Pollution Control Board, Sion,

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



ECOHOMES TOWNSHIP LLP Environmental Clearance Compliance Report

October 2023 to March 2024



At

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

Bhiwandi, Dist. Thane

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



INDEX

COMPLIANCE STATUS OF EC CONDITIONS	3
Environmental Clearance Letter No.: SIA/MH/MIS/244299/2021 Dated 10th June, 2022	3
Conditions of Consent to Establish	12
Consent Order No. Format1.0/CC/UAN No.0000154659/CE/2303001626 dated 23.03.2023	12
Schedule - I	14
Terms & conditions for compliance of Water Pollution Control	14
Consent Schedule-II	16
Terms & conditions for compliance of Air Pollution Control:	16
Consent Schedule-III	17
Details of Bank Guarantees	17
BG Forfeiture History	17
BG Return details	17
Consent Schedule-IV	18
Conditions during construction phase	18
ANNEXURE I	21
Previous compliance report acknowledgement copy	21
ANNEXURE II	22
Site Photographs	22
Project site	22
Labour camp – Worker Hutment Container	23
Labour camp – Kitchen Facility	23
Toilets	24
ANNEXURE III	26
Advertisements	26
ANNEXURE IV	27
Environmental Clearance Letter	27
ANNEXURE V	28
Consent to Establish	28
ANNEXURE VI	29
Form V	29
ANNEXURE VII	30
Environmental Status Report	30
ANNEXURE VIII	31
Environment Monitoring Report	31

COMPLIANCE STATUS OF EC CONDITIONS

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

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

	strength to increase the water permeable area as well as to allow effective fire tender movement.	
3.	PP to achieve at least 5% of total energy requirement from solar/other renewable sources.	PP will comply with the condition. Energy saving calculations already submitted during SEIAA meeting.
4.	PP Shall comply with Standard EC conditions mentioned in the Office Memorandum issued by MoEF & CC vide F.No.22-34/2018-IA.III dt.04.01.2019.	PP comply with the condition
5.	SEIAA after deliberation decided to grant EC for- FSI – 93864.26 m², Non FSI- 20407.39 m², Total BUA- 114271.65 m². (MMRD Plan Approval No., SROT//BSNA//25011/BP/Ranjnoli 18/1281/LA-2021, date 03.12.2021).	Noted
	GENERAL CONDITIONS:	
a)	Construction Phase:	
(i)	The solid waste generated should be properly collected and segregated. Dry/inert solid waste should be disposed of to the approved sites for land filling after recovering recyclable material.	Waste generated in worker camps is municipal solid waste which is segregated onsite, and treated by local municipal authorities.
(ii)	Disposal of muck, Construction spoils, including bituminous material 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 the approved sites with the approval of competent authority.	stored, and/or transported and utilized for land filling (or land leveling both onsite or offsite) All safety precautions will be taken by the PP. The safety nets, safety equipment's to the workers, barricading to plot boundary, water spraying at source of dust (twice in a day) and noise pollution mitigation measures will take.
(iii)	Any hazardous waste generated during construction phase should be disposed of as per applicable rules and norms with necessary approvals of the Maharashtra Pollution Control Board	No hazardous waste will be generated during construction & operation phase.
(iv)	Adequate drinking water and sanitary facilities should be provided for construction workers at the site. Provision should be made for mobile toilets. The safe disposal	Adequate sanitary and hygiene measures will be taken. Temporary sanitation with septic tank and separate

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

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

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

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

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

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

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

CONDITIONS OF CONSENT TO ESTABLISH

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

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

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

Schedule - I

Terms & conditions for compliance of Water Pollution Control

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

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

CONSENT SCHEDULE-II

Terms & conditions for compliance of Air Pollution Control:

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

CONSENT SCHEDULE-III

Details of Bank Guarantees

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

****** The above Bank Guarantee(s) shall be submitted by the applicant in favor of Regional Officer at the respective Regional Office within 15 days of the date of issue of Consent. **# Existing BG obtained for above purpose if any may be extended for the period of validity as above**.

BG Forfeiture History

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

BG Return details

Sr	Consent (C2E/C2O)/C2R)	BG imposed	Purpose of BG	Amount of BG Returned
		N/	/Α	

CONSENT SCHEDULE-IV

	Conditions during const	i action phase		
No	Condition	Compliance	?	Ρ
A	During construction phase, applicant shall provide temporary sewage disposal and MSW facility for staff and worker quarters	Waste generated in worker camps is municipal solid waste which is segregated onsite, and treated by local municipal authorities. Generated Sewage Dispose to		
		Septic Tank		
B	During the construction phase, the ambient air and noise quality should be closely monitored to achieve Ambient Air Quality Standards and Noise by the project proponent through MoEF approved laboratory	PP agrees with the condition.		
C	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	Available Noise Monitoring results for the month of October 2023 to March 2024 are attached.	\checkmark	

Conditions during construction phase

General Conditions

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

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

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

ANNEXURE I

Previous compliance report acknowledgement copy



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

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

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

Mon, Dec 11, 2023 at 12:43 PM

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

тo,

Regional Officer

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

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

Dear Sir,

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

District Thane April 2023 to September 2023

Regards, Apoorva Varma 8879945367

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

Compliance Report _Ecohomes Township LLP-Miracle_April 2023 to September 2023_Final.pdf 6455K



To: vijay.patil@nic.in

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

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

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

Mon, Dec 11, 2023 at 12:43 PM

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

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

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

Dear Sir,

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

District Thane April 2023 to September 2023

Regards, Apoorva Varma 8879945367

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Compliance Report _Ecohomes Township LLP-Miracle_April 2023 to September 2023_Final.pdf 6455K



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

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

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

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

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

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

Dear Sir,

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

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

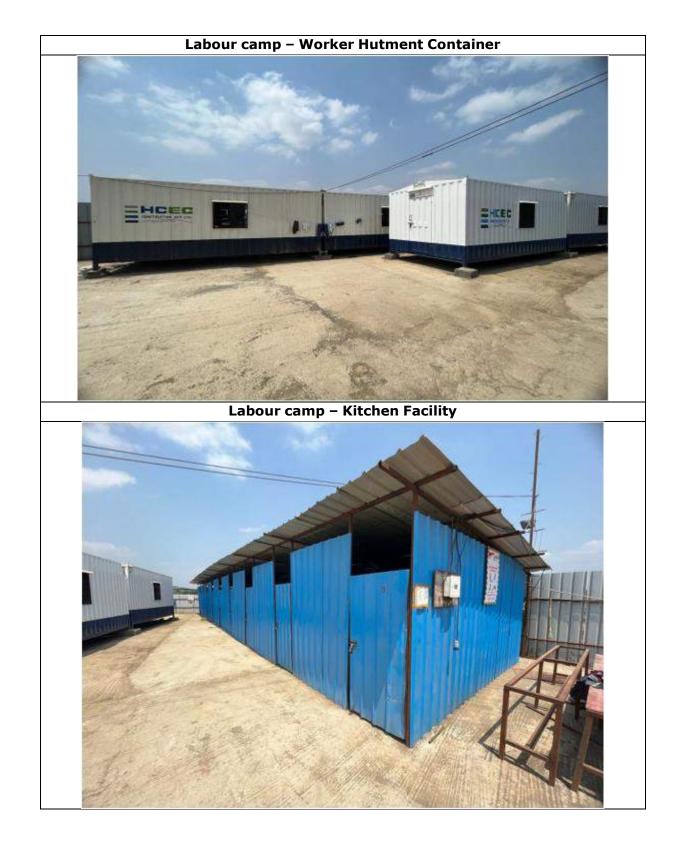
Office of: Mahabal Enviro Engineers Pvt. Ltd. - THANE BRANCH Plot F 7, Road 21, MIDC Wagle Estate, Thane West-400604 (Turn opp. Toyota showroom @ Golden Nest Hotel >>straight>> 550m) Phone: 022-35097207/9137566620/8928386332 Email: mahabal.thane@gmail.com PLEASE NOTE THIS IS COMMON EMAIL ID USED BY ALL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

Compliance Report _Ecohomes Township LLP-Miracle_April 2023 to September 2023_Final.pdf 6455K

ANNEXURE II

Site Photographs









ANNEXURE III

Advertisements



English newspaper "Mumbai Mirror" on 20th Nov 2022



Marathi newspaper "Maharashtra Times" on 25th Nov 2022

ANNEXURE IV

Environmental Clearance Letter



This is a computer generated cover page.

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

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

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

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

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

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

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

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

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

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

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

Specific Conditions:

A. SEAC Conditions-

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

B. SEIAA Conditions-

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

sources.

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

General Conditions:

a) Construction Phase :-

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

and noise emission standards.

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

B) Operation phase:-

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

- V. The Occupancy Certificate shall be issued by the Local Planning Authority to the project only after ensuring sustained availability of drinking water, connectivity of sewer line to the project site and proper disposal of treated water as per environmental norms.
- VI. Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking should be fully internalized and no public space should be utilized.
- VII. PP to provide adequate electric charging points for electric vehicles (EVs).
- VIII. Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.
 - IX. A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
 - X. Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise breaks-up. These cost shall be included as part of the project cost. The funds carmarked for the environment protection measures shall not be diverted for other purposes.
 - XI. The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the Marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at http://parivesh.nic.in
- XII. Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1st June & 1st December of each calendar year.
- X)ii. A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.
- XIV. The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The enteria pollutant levels namely; SPM, RSPM, SO2, NOx (amhient levels as well as stack emissions) or critical sector parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.

C) General EC Conditions:-

- PP has to strictly abide by the conditions stipulated by SEAC& SEIAA.
- If applicable Consent for Establishment" shall be obtained from Maharashtra Pollution Control Board under Air and Water Act and a copy shall be submitted to the Environment department before start of any construction work at the site.
- 111. Under the provisions of Environment (Protection) Act. 1986, legal action shall be initiated against the project proponent if it was found that construction of the project has been started without obtaining environmental clearance.
- IV. The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both)

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

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

4. The environmental clearance is being issued without prejudice to the action initiated under EP Act of any court case pending in the court of law and it does not mean that project proponent has not violated any environmental faws in the past and whatever decision under EP Act or of the Hunble court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him, if any or action initiated under EP Act.

5. This Environment Clearance is issued purely from an environment point of view without prejudice to any court cases and all other applicable permissions/ NOCs shall be obtained before starting proposed work at site.

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

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

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

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

Manisha Pa (Member S

Copy to:

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

ANNEXURE V

Consent to Establish

MAHARASHTRA POLLUTION CONTROL BOARD

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



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

Infrastructure/RED/L.S.I No:- Format1.0/CC/UAN No.0000154659/CE/2303001626

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



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

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

Your application NO. MPCB-CONSENT-0000154659

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

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

Sr.No	Permission Obtained	Plot Area (SqMtr) BUA (SqMt		
	Environment Clearance granted dtd. 10.06.2022	41356.08	114271.65	

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

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

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

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

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

6. Conditions under Solid Waste Rules, 2016:

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

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

Sr No	Category No.	Quantity	UoM	Treatment	Disposal	
HE NA						

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

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

Received Consent fee of -

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

Copy to:

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



SCHEDULE-I

Terms & conditions for compliance of Water Pollution Control:

- A] As per your application, you have proposed to provide MBBR based Sewage Treatment Plants (STPs) of combined capacity 895 CMD for treatment of domestic effluent of 890.04 CMD.
 - B] The Applicant shall operate the sewage treatment plant (STP) to treat the sewage so as to achieve the following standards prescribed by the Board or under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

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

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

Sr. No.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, spraying in mine pits or boiler feed	0.00
2.	Domestic purpose	1057.13
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	0.00
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	0.00

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

SCHEDULE-II

Terms & conditions for compliance of Air Pollution Control:

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

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

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

Total Particular matter	Not to exceed	150 mg/Nm3

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

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

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

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

** The above Bank Guarantee(s) shall be submitted by the applicant in favour of Regional Officer at the respective Regional Office within 15 days of the date of issue of Consent. # Existing BG obtained for above purpose if any may be extended for period of validity as above.

BG Forfeiture	History
----------------------	---------

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

BG Return details

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

SCHEDULE-IV

Conditions during construction phase

A	During construction phase, applicant shall provide temporary sewage and MSW treatment and disposal facility for the staff and worker quarters.
В	During construction phase, the ambient air and noise quality shall be maintained and should be closely monitored through MoEF approved laboratory.
С	Noise should be controlled to ensure that it does not exceed the 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.

General Conditions:

- 1 The applicant shall provide facility for collection of samples of sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
- 2 The firm shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act, 1981 and Environmental Protection Act 1986 and Solid Waste Management Rule 2016, Noise (Pollution and Control) Rules, 2000 and E-Waste (Management & Handling Rule 2011.
- 3 Drainage system shall be provided for collection of sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No sewage shall be admitted in the pipes/sewers downstream of the terminal manholes. No sewage shall find its way other than in designed and provided collection system.
- 4 Vehicles hired for bringing construction material to the site should be in good condition and should conform to applicable air and noise emission standards and should be operated only during non-peak hours.

- 5 Conditions for D.G. Set
 - a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
 - b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
 - c) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper sitting and control measures.
 - d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
 - e) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.
 - f) D.G. Set shall be operated only in case of power failure.
 - g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
 - h) The applicant shall comply with the notification of MoEFCC, India on Environment (Protection) second Amendment Rules vide GSR 371(E) dated 17.05.2002 and its amendments regarding noise limit for generator sets run with diesel.
- 6 Solid Waste The applicant shall provide onsite municipal solid waste processing system & shall comply with Solid Waste Management Rule 2016 & E-Waste (M & H) Rule 2011.
- 7 Affidavit undertaking in respect of no change in the status of consent conditions and compliance of the consent conditions the draft can be downloaded from the official web site of the MPCB.
- 8 Applicant shall submit official e-mail address and any change will be duly informed to the MPCB.
- 9 The treated sewage shall be disinfected using suitable disinfection method.
- 10 The firm shall submit to this office, the 30th day of September every year, the environment statement report for the financial year ending 31st march in the prescribed Form-V as per the provision of rule 14 of the Environmental (Protection) Second Amended rule 1992.
- 11 The applicant shall obtain Consent to Operate from Maharashtra Pollution Control Board before commissioning of the project.

This certificate is digitally & electronically signed.

ANNEXURE VI

Form V

Maharashtra Pollution Control Board



महाराष्ट्र प्रदूषण नियंत्रण मंडळ

Application UAN number

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

Unique Application Number MPCB-ENVIRONMENT_STATEMENT-0000064694

PART A

Company Information

Company Name Μ

Submitted Date 12-04-2024

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

By-product Information			
By Product Name	Consent Quantity	Actual Quantity	UOM
NA	0	0	CMD

Part-B (Water & Raw Material Consumption)

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

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

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

Ρ	a	rt-	D
	0		_

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

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

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

Part-H

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

Any other particulars for improving the quality of the environment.

Particulars

we awarded with consent to establish.

Name & Designation

Mr. Gaurav Monga_Director

UAN No:

MPCB-ENVIRONMENT_STATEMENT-0000064694

Submitted On:

12-04-2024

ANNEXURE VII

ENVIRONMENTAL STATUS REPORT

Environmental Status Report

As per EC Condition

For

"Miracle" Residential Cum Commercial Project

by

M/s Echomes Townships LLP.

at

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



Prepared by CONSULTANTS

Mahabal Enviro Engineers Pvt. Ltd.

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

INDEX

Introduction
Project proponent information 3
Plot area and Construction area details
Present status
Construction activity 4
Construction facility on site 5
Facility provided on site for Labour 5
Land Excavation details 5
Water details
Sewage Treatment Plant details 6
Storm Water Drain
Rain Water Harvesting 6
Solid Waste Disposal 7
Power Supply and consumption 7
Roads, Traffic and Transport details7
Housing and Slums provision 8
Air Environment
Dust
Noise Environment
Industries, Wastes and Hazards 8
Health facility
Other Facility9
Biological Environment
Environment Monitoring Cell
Environmental Management Audits:

Environmental Status Report

Introduction

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

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

Project proponent information

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

Plot area and Construction area details

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

Present status

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

Construction details are given below,

Constructed Building configuration details

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

Construction activity

Table 1: Environmental Services progress status

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

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

Construction facility on site

PP have provided following facilities at site:

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

Facility provided on site for Labour

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

Land Excavation details

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

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

Water details

Construction phase

PP has provided the drinking water facility for Labour workers.

Operational phase

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

Sewage Treatment Plant details

Construction phase

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

Operational phase

The total water requirement of the project is 1057.13 m³ per day, while fresh water requirement will be 68.288 m³. Total sewage generation will be 890.03 m³/day. PP will provide 1 no of STP's having total capacity 895 m³/day for the treatment of wastewater generated from project site. The treated water from STP is used for flushing and gardening purpose.

Storm Water Drain

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

Rain Water Harvesting

PP will provide rainwater harvesting RWH tank if 260 cum

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

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

Solid Waste Disposal

Construction phase

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

onsite, and treated by local municipal authorities.

Operational phase

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

Power Supply and consumption

Construction phase

PP have received the power supply connection from Torrent Power.

Operational phase

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

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

Roads, Traffic and Transport details

Construction phase

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

Operational phase

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

Vehicle emission controls

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

Housing and Slums provision

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

Air Environment

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

Dust

Anti-smog gun is being used for dust suppression

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

Noise Environment

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

No construction work is being done during night time.

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

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

Industries, Wastes and Hazards

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

Health facility

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

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

Other Facility

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

Biological Environment

Plantation & Landscaping

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

Landscape development plan

In the proposed project, the area allotted for landscaping is **4591.16 m²**. There are total 230 no's of trees proposed to be planted on-site. The trees are planted along the compound wall and along the road with adequate space between them so that their growth is not hampered. Plantation has to be taken up randomly and landscaping aspects could be taken into consideration.

Environment Monitoring Cell

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

Environmental Management Audits:

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

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

Table 2: Organization & Environment Management Cell

ANNEXURE VIII

ENVIRONMENT MONITORING REPORT



11/25/01

Mahabal Enviro Engineers Pvt. Ltd.

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TEST REPORT

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

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

Sr. No.	Parameter	Unit	Result	INAAQS	Method Reference
	Discipline: Chemical Testing: Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	µg/m ³	8.0	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO ₂)	µg/m²	11.9	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PM ₁₀	µg/m ³	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 2.5 μm) or PM2.5	µg/m³	15	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: 08h.
- 4. TWA: Time Weighted Average
- 5. NAAQS: National Ambient Air Quality Standard
- 6. #- NAAQS specified as: 8 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM10, PM25.
- The result listed refers only to the tested sample(s) and applicable parameter(s).
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Page 1 of 1 QF/SALE/03 Issue No 03 Date 05.12.2019 Amd 04 Date 18.07.2023 Reviewed and authorised by

Harish Mendhi Technical Manager Chemical Testing





12-1441



Date of Sampling

Mahabal Enviro Engineers Pvt. Ltd.

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TEST REPORT

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

Sampling Procedure CPCB Protocol for Ambient level Noise Monitoring 2015

06.10.2023

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

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

END OF REPORT

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

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TEST REPORT

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

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

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

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TEST REPORT



 Report No.:
 ME-0461231007
 Date: 13.10.2023

 ULR No.:
 TC748723000016115F

Note: 1. BQL: Below Quantification Limit

- 2. LOQ: Limit of Quantification
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TEST REPORT

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

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

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

Reviewed and authorised by

Technical Manager

Chemical Testing

Harish Mendhi

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

Reviewed and authorised by







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TEST REPORT

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

END OF REPORT

Note: 1. BQL: Below Quantification Limit.

- 2. LOQ: Limit of Quantification.
- 3. # Acceptable Limit as per IS 10500.2012, RA 2018.
- 4. \$ Permissible Limit in the Absence of Alternate Source as per IS 10500/2012 RA 2018
- 5. The result listed refers only to the tested sample(s) and applicable parameter(s).
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TEST REPORT

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

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

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

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Harish Mendhi Technical Manager Chemical Testing

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





10-7407

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TEST REPORT

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

END OF REPORT

Note: 1. BQL: Below Quantification Limit.

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

Technical Manager

Chemical Testing

Reviewed and authorised by

Shital Lakhorkar

Group In-charge

Biological Testing











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TEST REPORT

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Date of Start of

Analysis

09.10.2023

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

Date of Completion of

Analysis

18.10.2023

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

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

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TEST REPORT



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

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

Note: 1. BQL: Below Quantification Limit.

- 2. LOQ: Limit of Quantification.
- 3. All results are expressed as received basis.
- 4. The result listed refers only to the tested sample(s) and applicable parameter(s).
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TEST REPORT

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

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

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

END OF REPORT

Note: 1. BQL: Below Quantification Limit.

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Plot No. F-7, Road No. 21, MIDC Wagle Estate, Thane West - 400604, Maharashtra (600 m from Hotel Rukhmini Palace Turn Opp Toyota Show Room, Near J B Sawant Bus Stop, Next to Ashida Electronics) Phone: 022-2582 0658/ 3139/ 1663 Fax: 25823543 thane@mahabal.com

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

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

Ref.No.

Survey Team

Mobile No.

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

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

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



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Mahabal Enviro Engineers Pvt. Ltd.

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TEST REPORT

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

Sr. No.	Parameter	Unit	Result	INAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	hð/w ₃	10.4	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 1-6
2	Nitrogen Dioxide (NO ₂)	µg/m³	16.4	80	CPC8 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 $_{10}$	µg/m³	59	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 PM2.5	hð\w ₃	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: 08h.
- TWA: Time Weighted Average
- 5. NAAQS: National Ambient Air Quality Standard
- 6. #- NAAQS specified as: 8 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM10, PM25,
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TEST REPORT

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

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

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

END OF REPORT

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

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TEST REPORT

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

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

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

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

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TEST REPORT



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

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TEST REPORT

Carlos and	Report No.	ME-0385240107	Date: 13.01.2024		
同 代现	ULR No.:	TC748724000000348F		1001	
Name and Address of Customer	"MIRACLE"	ESIDENTIAL PROJECT	WO No.: Verb WO Date: 04.0		
Sample Description / Type	Drinking water	Sampling Done by	Laboratory		
Sampling Location	Near Sales Offi (Bisleri Water)	ce 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	06.01.2024	Date of Receipt of Sample	07.01.2024		
Sampling Procedure	IS:3025 (Part I)	IS 1622; APHA 24* Ed. 2023	3, 1060-B, 9060 A		
Date of Start of Analysis	07.01.2024	Date of Completion of Analysis	12.01.2024		

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

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

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Chemical Testing

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TEST REPORT

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

END OF REPORT

Note: 1. BQL: Below Quantification Limit.

- 2. LOQ: Limit of Quantification.
- #: Acceptable Limit as per IS 10500.2012; RA 2018.
- 4. \$ Permissible Limit in the Absence of Alternate Source as per IS 10500:2012 RA 2018
- 5. The result listed refers only to the tested sample(s) and applicable parameter(s).
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TEST REPORT

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

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

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

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Harish Mendhi

Chemical Testing

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





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TEST REPORT

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

END OF REPORT

Note: 1. BQL Below Quantification Limit.

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

Reviewed and authorised by

hulling

Harish Mendhi Technical Manager Chemical Testing Reviewed and authorised by



Pranali Kurve Technical Manager Biological Testing







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TEST REPORT

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

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

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

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TEST REPORT



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

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

END OF REPORT

Note: 1. BQL: Below Quantification Limit.

2. LOQ: Limit of Quantification.

3. All results are expressed as received basis.

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TEST REPORT

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

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

END OF REPORT

Note: 1. BQL: Below Quantification Limit.

- 2 LOQ: Limit of Quantification.
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Survey Team Achile No	En					(- Record (M msocley + 5 361 7			12
Ref.No						Date	21	12]	-2023
Client	The set of			iect	Mr.	Mr. Vardhar	Shar	mugam	
					Post	Safety Offic		100	01
					Mobile 9962826106				
					E-Mail	VARADHAN.SH		AMSmahin	dra:com
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Extr.					Fax				
				SURVEY D	ETAILS				
Sample fr	m	Qua	ntity	Survey D	Date	Arrival tim	ie	Depart	ure time
Stack		-	01						
Ambient		~	01						
Noise		~	02						
Work room				1	0.0				
Effluent	1.10			2/12/3	23				
Water • D	2111 - C. 196-342-	-	0102				- 74		
Haz. Waste			01						
Meteorolog Other	Y								
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TEST REPORT

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

Sr. No.	Parameter	Unit	Result	#NAAQS	Method Reference
	Discipline: Chemical Testing; Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	µg/m³	13.6	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No. 1-6
2	Nitrogen Dioxide (NO ₂)	µg/m ³	14.7	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PM ₁₀	µg/m³	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 PM2.5	µġ/m³	22	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: 08h.
- TWA: Time Weighted Average
- 5. NAAQS: National Ambient Air Quality Standard
- 6. #- NAAQS specified as: 8 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM10, PM25,
- 7. The result listed refers only to the tested sample(s) and applicable parameter(s).
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TEST REPORT

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

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

Area Code	Area Type	Limits in dB (A)	weighted scale
	4004	Day Time (6.00a.m. to 10:00 p.m.)	Night Time (10:00 p.m. to 6:00 a.m.)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

END OF REPORT

Note:

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

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TEST REPORT

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

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

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

END OF REPORT

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

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TEST REPORT



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

Note: 1. BQL: Below Quantification Limit

- 2. LOQ: Limit of Quantification
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TEST REPORT

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

Name and Address of Customer			WO No.: Verbal WO Date: 05.10,2023
Sample Description / Type	Drinking water	Sampling Done by	Laboratory
Sampling Location	Near Office Area (Bisleri 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	02.12.2023	Date of Receipt of Sample	03.12.2023
Sampling Procedure	IS:3025 (Part I); IS	1622; APHA 24* Ed. 2023	1060-B, 9060 A
Date of Start of Analysis	03.12.2023	Date of Completion of Analysis	09.12.2023

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

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

18.07.2023

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







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TEST REPORT

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

END OF REPORT

Note: 1. BQL: Below Quantification Limit

- 2. LOQ: Limit of Quantification.
- 3. #: Acceptable Limit as per IS 10500.2012; RA 2018.
- Permissible Limit in the Absence of Alternate Source as per IS 10500:2012 RA 2018
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Harish Mendhi Technical Manager Technical Manager Chemical Testing

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TEST REPORT

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

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

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

Harish Mendhi Technical Manager Technical Manager Chemical Testing

Pranali Kurve **Biological Testing**





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TEST REPORT

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

END OF REPORT

1. BQL: Below Quantification Limit. Note:

- 2. LOQ: Limit of Quantification.
- 3. #: Acceptable Limit as per IS 10500:2012; RA 2018.
- Permissible Limit in the Absence of Alternate Source as per IS 10500:2012 RA 2018
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Page 2 of 2 OF/SALE/02 Issue No 03 Date 05.12.2019. Amd 03 Date 18.07.2023

Reviewed and authorised by

Harish Mendhi Technical Manager Technical Manager Chemical Testing











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TEST REPORT

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

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

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





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TEST REPORT

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The entremand of the local division of the l

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

END OF REPORT

Note: 1. BQL: Below Quantification Limit.

- 2. LOQ Limit of Quantification.
- 3. All results are expressed as received basis.
- 4. The result listed refers only to the tested sample(s) and applicable parameter(s).
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Page 2 of 2 QF/SALE/02 Issue No 03 Date 05.12.2019. Amd 03 Date 18.07.2023

Reviewed and authorised by









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TEST REPORT

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

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

END OF REPORT

Note: 1. BQL: Below Quantification Limit.

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

Meteorology Other

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

Name: Shanmugam

Signature: INTERNAL USE

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

TEST REPORT

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

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

END OF REPORT

1. BQL: Below Quantification Limit. Note:

- 2. LOQ: Limit of Quantification.
- 3. Duration of Sampling: 08h.
- 4. TWA: Time Weighted Average
- 5. NAAQS: National Ambient Air Quality Standard
- 6. #- NAAQS specified as: 8 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM10, PM2.5.
- The result listed refers only to the tested sample(s) and applicable parameter(s). 7.
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Reviewed and authorised by

Sagar Yeul Dy. Technical Manager Chemical Testing









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TEST REPORT



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

END OF REPORT

Note: 1. BQL: Below Quantification Limit.

- 2. LOQ: Limit of Quantification.
- 3. Duration of Sampling: 24h
- 4. TWA: Time Weighted Average
- 5 NAAQS: National Ambient Air Quality Standard
- #- NAAQS specified as: 24 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, 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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Harish Mendhi

Technical Manager Chemical Testing







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TEST REPORT

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

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

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

END OF REPORT

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

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

113-5 123

Reviewed and authorised by

Sagar Yeul Dy Technical Manager Chemical Testing









Mahabal Enviro Engineers Pvt. Ltd.

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TEST REPORT

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

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

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

END OF REPORT

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

Sagar Yeul Dy Technical Manager Chemical Testing







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TEST REPORT



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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Sagar Yeul Dy Technical Manager Chemical Testing









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TEST REPORT

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

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

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

Reviewed and authorised by

Harish Mendhi Technical Manager Technical Manager Chemical Testing

Reviewed and authorised by

Biological Testing





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TEST REPORT

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

END OF REPORT

Note: 1. BQL: Below Quantification Limit.

MPAGE

- 2. LOQ: Limit of Quantification.
- 3. #: Acceptable Limit as per IS 10500 2012; RA 2018.
- 4. \$ Permissible Limit in the Absence of Alternate Source as per IS 10500.2012 RA 2018
- 5. The result listed refers only to the tested sample(s) and applicable parameter(s)
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Mulaz

Harish Mendhi Technical Manager Chemical Testing Reviewed and authorised by



Pranali Kurve Technical Manager Biological Testing CHVIRO ENC







Mahabal Enviro Engineers Pvt. Ltd.

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TEST REPORT

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

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 S Permissible Limit in the Absence of Alternate Source as per IS 10500-2012 RA 2018
- 5. The result listed refers only to the tested sample(s) and applicable parameter(s).
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Page 2 of 2 QF/SALE/02 Issue No 03 Date 05.12.2019. Amd 03 Date 18 07 2023

Reviewed and authorised by

Sagar Yeul

Chemical Testing

Reviewed and authorised by

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







PLOT NOS. 13.14,17, B, ORAMPANCHAYAT BOKHARA, CHHINDWARA ROAD, KORADI, NAGPUR, MAHARASHTRA, INDIA Phone: 0712-2612162/2612212 email: nagpur@mahabal.com

TEST REPORT

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

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

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

authorised by

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TEST REPORT



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

END OF REPORT

Note: 1. BQL: Below Quantification Limit.

2 LOQ: Limit of Quantification.

- 3. All results are expressed as received basis.
- 4. The result listed refers only to the tested sample(s) and applicable parameter(s).
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Reviewed and authorised by Harish Mendhi Technical Manager

Chemical Testing









CER WAREN

Mahabal Enviro Engineers Pvt. Ltd.

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TEST REPORT

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

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

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

END OF REPORT

Note: 1 BQL Below Quantification Limit.

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



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

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

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Name Shanning an

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Meteorology Other Soil

Signature

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Analysis

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TEST REPORT

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

Analysis

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

END OF REPORT

Note: 1. BQL: Below Quantification Limit.

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

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

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

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

END OF REPORT

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

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

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TEST REPORT

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

Start of Analysis Analysis

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

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

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

Reviewed and authorised by







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TEST REPORT



Note: 1. BQL: Below Quantification Limit

- 2. LOQ: Limit of Quantification
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TEST REPORT

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

Analysis

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

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

Harish Mendhi

Technical Manager

Chemical Testing

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Reviewed and authorised by

001

Pranali Kurve Technical Manager Biological Testing







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TEST REPORT

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

END OF REPORT

Note: 1. BQL: Below Quantification Limit.

- 2. LOQ: Limit of Quantification.
- 3. # Acceptable Limit as per IS 10500:2012; RA 2018.
- 4. \$ Permissible Limit in the Absence of Alternate Source as per IS 10500:2012 RA 2018
- 5. The result listed refers only to the tested sample(s) and applicable parameter(s).
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Page 2 of 2 QF/SALE/02 Issue No 03 Date 05 12 2019 Amd 03 Date 18.07.2023 Reviewed and authorised by

Harish Mendhi Technical Manager Chemical Testing Reviewed and authorised by



Pranali Kurve Technical Manager Biological Testing







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TEST REPORT

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

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

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

Reviewed and authorised, by

Harish Mendhi

Chemical Testing

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





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TEST REPORT

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

END OF REPORT

Note: 1. BQL: Below Quantification Limit.

125/21

- 2. LOQ: Limit of Quantification.
- 3. #: Acceptable Limit as per IS 10500:2012; RA 2018.
- 4. \$ Permissible Limit in the Absence of Alternate Source as per IS 10500 2012 RA 2018
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Page 2 of 2 OF/SALE/02 Issue No 03 Date 05.12.2019. Amd 03 Date 18.07.2023 Reviewed and authorised by

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Harlsh Mendhi Technical Manager Chemical Testing Reviewed and authorised by

Pranali Kurve Technical Manager Biological Testing 





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TEST REPORT

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

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

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

Reviewed and

Kishor Yeole Branch Manager Chemical Testing







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TEST REPORT



Sr. No. 9

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

END OF REPORT

Note: 1. BQL: Below Quantification Limit.

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

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

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

END OF REPORT

Note: 1. BQL. Below Quantification Limit.

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

Meteorology Other

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

Name Showingan Variadhan INTERNAL USE

Signature:

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TEST REPORT

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

Sr. No.	Parameter	Unit	Result	INAAQS	Method Reference
	Discipline: Chemical Testing: Product Group: Atmospheric Pollution (Ambient Air)				
1	Sulphur Dioxide (SO ₂)	µg/m³	11.1	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume J. 2012-13, Page No.1-6
2	Nitrogen Dioxide (NO ₂)	µg/m³	15.2	80	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, 2012-13, Page No.7-10
3	Particulate Matter (size less than 10µm) or PMto	µg/m³	38	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 PM21	hð\w ₃	21	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: 08h.
- 4. TWA: Time Weighted Average
- 5. NAAQS: National Ambient Air Quality Standard
- #- NAAQS specified as: 8 h. TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PMio. PM25.
- 7. The result listed refers only to the tested sample(s) and applicable parameter(s).
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TEST REPORT

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

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

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

END OF REPORT

Note:

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TEST REPORT

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

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

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

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

Sagar Yeul Dy. Technical Manager Chemical Testing







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TEST REPORT



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TEST REPORT

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

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

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

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Harish Mendhi Technical Manager Technical Manager Chemical Testing

Pranali Kurve **Biological Testing**





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TEST REPORT

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

END OF REPORT

Note: 1. BQL: Below Quantification Limit.

- 2. LOQ: Limit of Quantification.
- 3. # Acceptable Limit as per IS 10500.2012; RA 2018.
- 4. \$ Permissible Limit in the Absence of Alternate Source as per IS 10500.2012 RA 2018
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Pranali Kurve Technical Manager Technical Manager **Biological Testing**

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TEST REPORT

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

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

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

Sagar Yeul Dy Technical Manager Technical Manager Chemical Testing

Pranali Kurve **Biological Testing**







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TEST REPORT

INT A	

Report No. ME-0366240306 ULR No .: TC748724000004028F

Date: 13.03.2024

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

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

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









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TEST REPORT

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

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

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





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TEST REPORT



Sr.

No. 9.

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

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

END OF REPORT

Note: 1. BQL: Below Quantification Limit.

2. LOQ: Limit of Quantification.

- 3. All results are expressed as received basis.
- 4. The result listed refers only to the tested sample(s) and applicable parameter(s).
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TEST REPORT

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

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

END OF REPORT

Note: 1. BQL: Below Quantification Limit.

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Page 1 of 1 QF/SALE/02 Issue No 03 Date 05.12.2019. Amd 03 Date 18.07 2023 Reviewed and authorised by

