



Date: 15<sup>th</sup> December 2023.

To,  
**The Additional Director(s),**  
Regional Office (WCZ),  
Ministry of Environment,  
Forest & Climate Change,  
Ground floor, East Wing,  
New Secretariate Building,  
Civil Lines, Nagpur – 440001,  
Maharashtra

**Sub:** Submission of Environmental Clearance Compliance (Jul to Dec 2023) for Proposed Residential Project “Marvel Ribera” CTS No. 30A F.P No 199+ F.P No. 201 sub plot no.A, Sangamwadi T.P.S (Boat Club Road) Pune by M/s. MARVEL SIGMA HOMES PVT LTD.

**Ref:** Environment Clearance No- SIA/MH/MIS/165551/2020 dated 11<sup>th</sup> July 2022.

Respected Sir,

With reference to the above subject we are submitting the current Status of our construction work, monitoring reports, data sheet and point wise environmental clearance compliance status to various stipulations laid down by the Ministry of Environment and Forest in its Environment Clearance No. SIA/MH/MIS/165551/2020 dated 11<sup>th</sup> July 2022, Along with the necessary enclosure and annexure.

This is for your kind consideration and records. Kindly acknowledge the same.

Thanking you,  
Yours Sincerely,

**For, M/s. MARVEL SIGMA HOMES PVT LTD.**

  
Authorized Signatory



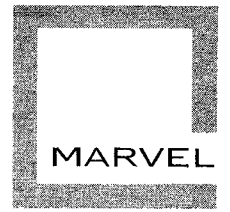
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Proposed residential project "Marvel Ribera", CTS No. 30A F.P No 199+ F.P No. 201 sub plot no.A, Sangamwadi  
T.P.S (Boat Club Road) Pune by MARVEL SIGMA HOMES PVT LTD

# **PART - A**

## **CURRENT STATUS OF WORK**



### CURRENT STATUS OF WORK (December-2023)

**Current Status of the project:** Proposed Residential Project “Marvel Ribera” CTS No. 30A F.P No 199+ F.P No. 201 sub plot no.A, Sangamwadi T.P.S (Boat Club Road) Pune by M/s. MARVEL SIGMA HOMES PVT LTD.

Sr. No.	No. of Buildings	Status	Status of the Environmental Management Facilities
1	A	1. RCC work up to 16th floor 100% complete. 2. Block work 90% complete.	STP, OWC, D.G, Transformer work Yet to start

Proposed residential project “Marvel Ribera”, CTS No. 30A F.P No 199+ F.P No. 201 sub plot no.A,  
Sangamwadi T.P.S (Boat Club Road) Pune by MARVEL SIGMA HOMES PVT LTD

# **PART - B**

## **POINT WISE COMPLIANCE**

**PART B:**

**2. Point wise compliance status to various stipulations laid down by the Ministry in its clearance letter SIA/MH/MIS/165551/2020 dated on 11<sup>th</sup> July 2022 are as follows:**

Sr. No	Condition	Status
	<b>Specific Conditions:</b>	
<b>A.</b>	<b>SEAC Conditions-</b>	
1.	PP to submit the photographs of trees before transplantation & after transplantation for already transplanted trees.	Noted and adhered
2.	Committee noted that, the STP is underground & it is constructed but not functional yet, PP to ensure that STP to be constructed in order to have minimum 40% area of STP, open to sky. PP to submit the design & cross section of the same. PP to submit the undertaking regarding the same	Noted and adhered
3.	PP to submit the water NoC.	Noted and adhered
	<b>B. SEIAA Conditions-</b>	
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. & strength to increase the water permeable area as well as to allow effective fire tender movement	Noted and adhered
2.	PP to achieve at least 5% of total energy requirement from solar/other renewable sources.	Noted and adhered
3.	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.	Noted and adhered
4.	SEIAA after deliberation decided to grant EC for FSI 12199.48 m2, Non-FSI- 11127.82 m2, Total BUA- 23326.44 m2. (Plan approval-CC/2400/21, dated- 12.11.2021).	Noted and adhered
	<b>General Conditions:</b>	
<b>a)</b>	<b>Construction Phase :-</b>	
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.	Noted and adhered
II.	Disposal of muck, Construction spoils, including bituminous 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.	Noted and adhered
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.	Not applicable
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	Best practices to reduce water demand during construction phase will be adopted.

Proposed residential project "Marvel Ribera", CTS No. 30A F.P No 199+ F.P No. 201 sub plot no.A, Sangamwadi  
T.P.S (Boat Club Road) Pune by M/s. MARVEL SIGMA HOMES PVT LTD

Sr. No	Condition	Status
	ensured.	
V.	Arrangement shall be made that waste water and storm water do not get mixed.	Noted and adhered
VI.	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices.	Best practices to reduce water demand during construction phase will be adopted.
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.	Not Applicable
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.	Noted and adhered
X.	The Energy Conservation Building code shall be strictly adhered to.	Noted and adhered
XI.	All the topsoil excavated during construction activities should be stored for use in horticulture/landscape development within the project site.	The top soiled will be used in landscaped developing 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.	Noted and adhered
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.	Soil analysis report is attached Annexure
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.	Noted and adhered
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.	Used oil of DG sets will be handed over to recyclers
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.	Noted and adhered
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.	For Construction Phase- Vehicle are allow during early morning hours or late evening hours when traffic in the area is less (7.30 p.m to 5.30 a.m) Standard of construction vehicles are

Proposed residential project "Marvel Ribera", CTS No. 30A F.P No 199+ F.P No. 201 sub plot no.A, Sangamwadi  
T.P.S (Boat Club Road) Pune by M/s. MARVEL SIGMA HOMES PVT LTD

Sr. No	Condition	Status
		checked regularly including.
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.	Incremental pollution loads on the ambient air and noise quality are being closely monitored. Air & Noise monitoring reports are attached as Annexure
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.	Noted and adhered.
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.	It is being followed.
<b>B)</b>	<b>Operation phase:-</b>	
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.	Yes, we were collecting separately dry/solid waste. The personnel handling 'yellow' and 'black' bags shall be provided with personal protective and sufficient disinfectant at both the point of generation and disposal. And disposal for land filling after recovering recycle material.
II.	E-waste shall be disposed through Authorized vendor as per E-waste (Management and Handling) Rules, 2016.	E-waste will be periodically handed over to authorized vendors for recycling.
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 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	Treated water from STP will be used for irrigation of plantation/green belt and for flushing. This will reduce the demand for fresh water for irrigation as well as flushing. Excess treated water will be connected to



Proposed residential project "Marvel Ribera", CTS No. 30A F.P No 199+ F.P No. 201 sub plot no.A, Sangamwadi  
T.P.S (Boat Club Road) Pune by M/s. MARVEL SIGMA HOMES PVT LTD

Sr. No	Condition	Status
	should ensure this.	common drainage line of Pune municipal corporation
IV.	Project proponent shall ensure completion of STP, MSW disposal facility, green belt development prior to occupation of the buildings. As agreed during the SELAA 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.	Noted and adhered
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	Noted and adhered
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.	There will be no traffic congestion near the entry and exit points from the roads. Parking will be fully internalized and no public space will be being utilized.
VII.	PP to provide adequate electric charging points for electric vehicles (EVs).	Noted and adhered
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.	Not applicable
IX.	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	Noted and adhered
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 earmarked for the environment protection measures shall not be diverted for other purposes.	Separate funds are allocated for implementation of EMP during construction phase and Operation phase. Find attached EMP report in annexure.
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	Complied. Advertise in local newspaper was circulated and attached in annexure.
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.	It is being followed

Proposed residential project "Marvel Ribera", CTS No. 30A F.P No 199+ F.P No. 201 sub plot no.A, Sangamwadi  
T.P.S (Boat Club Road) Pune by M/s. MARVEL SIGMA HOMES PVT LTD

Sr. No	Condition	Status
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.	Noted & Adhere
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. SO <sub>2</sub> , NO <sub>x</sub> (ambient levels as well as stack emissions) or critical sector parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Noted & Adhere
<b>C)</b>	<b>General EC Conditions:-</b>	
I.	PP has to strictly abide by the conditions stipulated by SEAC& SEIAA.	Noted and adhered
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.	Yes, Apply for Consent to Establish UAN No: MPCBCONSENT0000147928
III.	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.	Environmental clearance has been obtained from the MoEF as vide theirref.SIA/MH/MIS/165551/20 20 dated on 11th July 2022.
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.	It is being followed.
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.	Noted and adhered.
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 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.	Noted and adhered
VII.	This environmental clearance is issued subject to obtaining NOC	Not applicable

Proposed residential project "Marvel Ribera", CTS No. 30A F.P No 199+ F.P No. 201 sub plot no.A, Sangamwadi  
T.P.S (Boat Club Road) Pune by M/s. MARVEL SIGMA HOMES PVT LTD

Sr. No	Condition	Status
	from Forestry & Wild life angle including clearance from the standing committee of the National Board for Wild life as if applicable & this environment clearance does not necessarily implies that Forestry & Wild life clearance granted to the project which will be considered separately on merit.	
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 and adhered.
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 and adhered.
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 and adhered.
7.	Validity of Environment Clearance: The environmental clearance accorded shall be valid as per ELA Notification, 2006, amended from time to time.	Noted.
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 Insurance Act, 1991 and its amendments.	Noted and adhered.
9.	Any appeal against this Environment clearance shall lie with the National Green Tribunal (Western Zone Bench, Pune), New Administrative Building, 1" Floor, D-Wing, Opposite Council Hall, Pune, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted and adhered.

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

Thanking you,

Yours Sincerely,

**For M/s. MARVEL SIGMA HOMES PVT LTD**

Authorized Signatory

Proposed residential project “Marvel Ribera”, CTS No. 30A F.P No 199+ F.P No. 201 sub plot no.A, Sangamwadi  
T.P.S (Boat Club Road) Pune by MARVEL SIGMA HOMES PVT LTD

# **ENCLOSURE NO. I**

**DATA SHEET IN FORMAT WITH PART– I,  
PART – II & PART - III**

Ministry of Environment & Forest  
Western Region, Regional Office, Nagpur.

PART – I

DATA SHEET

Date: 20/12/2023

<b>1.</b>	<b>Project type: River - valley/ Mining / Industry / Thermal / Nuclear / Other (specify)</b>	<b>:</b>	Construction Project.
<b>2.</b>	<b>Name of the project</b>	<b>:</b>	"Marvel Ribera"
<b>3.</b>	<b>Clearance letter ( s ) / OM No. and Date</b>	<b>:</b>	Environmental clearance has been obtained from the MoEF as vide their ref. SIA/MH/MIS/165551/2020 dated on 11th July 2022
<b>4.</b>	<b>Location</b>	<b>:</b>	CTS No. 30A F.P No 199+ F.P No. 201 sub plot no.A, Sangamwadi T.P.S (Boat Club Road) Pune.
	<b>a.</b>	<b>District ( S )</b>	<b>:</b> Pune
	<b>b.</b>	<b>State ( s )</b>	<b>:</b> Maharashtra
	<b>c.</b>	<b>Latitude/ Longitude</b>	<b>:</b> Latitude -18°32'23.09"N Longitude - 73° 52' 34.78"E
<b>5.</b>	<b>Address for correspondence</b>		
	<b>a.</b>	<b>Address of Concerned Project Chief Engineer ( with pin code &amp; Telephone / telex / fax numbers</b>	<b>:</b> Mr. Vishwajeet S Jhavar "Marvel Ribera" CTS No. 30A F.P No 199+ F.P No. 201 sub plot no.A, Sangamwadi T.P.S (Boat Club Road) Pune.411001. Phone No-+91 9665029116
<b>6.</b>	<b>Salient features</b>		
	<b>a.</b>	<b>of the project</b>	<b>:</b> PART –I
	<b>b.</b>	<b>of the environmental management plans</b>	<b>:</b> PART –II
<b>7.</b>	<b>Breakup of the project area</b>	<b>:</b>	
	<b>a.</b>	<b>submergence area forest &amp; non-forest</b>	<b>:</b> Not applicable
	<b>b.</b>	<b>Others</b>	<b>:</b> PART –I
<b>8.</b>	<b>Breakup of the project affected Population with enumeration of Those losing houses / dwelling units Only agricultural land only, both Dwelling units &amp; agricultural Land &amp; landless labourers/artisan</b>	<b>:</b>	Not Applicable.
	<b>a.</b>	<b>SC, ST/Adivasis</b>	<b>:</b> Not Applicable

	<b>b.</b>	<b>Others</b> <b>(Please indicate whether these Figures are based on any scientific And systematic survey carried out Or only provisional figures, it a Survey is carried out give details And years of survey)</b>	:	Not Applicable
<b>9.</b>	<b>Financial details</b>		:	
	<b>a.</b>	Project cost as originally planned and subsequent revised estimates and the year of price reference:		
	<b>1.</b>	<b>Total Cost of the Project</b>	:	Rs. 60 Crores only
	<b>b.</b>	<b>Allocation made for environmental management plans with item wise and year wise Break-up.</b>	:	PART –III
	<b>c.</b>	<b>Benefit cost ratio / Internal rate of Return and the year of assessment</b>	:	--
	<b>d.</b>	<b>Whether ( c ) includes the cost of environmental management as shown in the above.</b>	:	Yes
	<b>e.</b>	<b>Actual expenditure incurred on the project so far</b>	:	PART III
	<b>f.</b>	<b>Actual expenditure incurred on the environmental management plans so far</b>		PART III
<b>10.</b>	<b>Forest land requirement</b>		:	Not Applicable
	<b>a.</b>	<b>The status of approval for diversion of forest land for non-forestry use</b>	:	Not Applicable
	<b>b.</b>	<b>The status of clearing felling</b>	:	Not Applicable
	<b>c.</b>	<b>The status of compensatory afforestation, it any</b>	:	Not Applicable
	<b>d.</b>	<b>Comments on the viability &amp; sustainability of compensatory afforestation program in the light of actual field experience so far</b>	:	Not Applicable
<b>11.</b>	<b>The status of clear felling in non-forest areas (such as submergence area of reservoir,</b>		:	Not Applicable
<b>12.</b>	<b>Status of construction</b>		:	
	<b>a.</b>	<b>Date of commencement ( Actual and/or planned )</b>	:	-
	<b>b.</b>	<b>Date of completion</b>	:	Construction work is in progress

Proposed residential project "Marvel Ribera", CTS No. 30A F.P No 199+ F.P No. 201 sub plot no.A, Sangamwadi T.P.S (Boat Club Road) Pune by MARVEL SIGMA HOMES PVT LTD

		( Actual and/or planned )		
<b>13.</b>	<b>Reasons for the delay if the Project is yet to start</b>		<b>:</b>	Construction work is in progress
<b>14</b>	<b>Dates of site visits</b>		<b>:</b>	
	<b>a.</b>	<b>The dates on which the project was monitored by the Regional Office on previous Occasions, if any</b>	<b>:</b>	-
	<b>b.</b>	<b>Date of site visit for this monitoring report</b>	<b>:</b>	30/11/2023 & 1/12/2023
<b>15.</b>	<b>Details of correspondence with Project authorities for obtaining Action plans/information on Status of compliance to safeguards Other than the routine letters for Logistic support for site visits )</b>		<b>:</b>	Not Applicable

**PART I**

**PROJECT DETAILS**

<b>Name &amp; Location</b>	:	"Marvel Ribera", CTS No. 30A F.P No 199+ F.P No. 201 sub plot no.A, Sangamwadi T.P.S (Boat Club Road) Pune by M/s. MARVEL SIGMA HOMES PVT LTD
<b>Total no. Of workers to be employed during the construction phase.</b>	:	Peak : 100 Nos. Average : 50 Nos.
<b>Total Project cost</b>	:	Rs. 60 Cr only.
<b>Project infrastructure</b>	:	M/s. MARVEL SIGMA HOMES PVT LTD, CTS No. 30A F.P No 199+ F.P No. 201 sub plot no.A, Sangamwadi T.P.S (Boat Club Road) Pune
	:	Total Plot Area: 5431.23 Sq. Total Construction Area: 23,326.44 Sq. m.
<b>Water Requirement and Sources</b>	:	<b>During Construction Phase -</b> From Tankers /PMC water: 10-20 m <sup>3</sup> /day (depending upon the activity) <b>During Operational Phase -</b> From PMC Fresh Water: 22 m <sup>3</sup> / day Recycled water-29 m <sup>3</sup> / day
<b>Sewage generated</b>	:	Total 31 m <sup>3</sup> /day
<b>Power</b>	:	<b>During Construction Phase -</b> From MSEDCL: 116 KVA <b>Operational Phase -</b> From MSEDCL connected load :827.07KVA Demand Load- 425.19KVA D.G Set of Capacity Building: 250 KVA and Transformer : 1x 630 KVA (In case of power failure for critical load only)
<b>Gaseous emissions</b>	:	Pollutants like SPM, SO <sub>2</sub> may arise from emissions from DG Sets will be connected to an appropriately designed vent.
<b>Solid waste from :</b> <b>Construction Phase -</b> Garbage: <b>Operation Phase -</b> 1. Dry 2. Wet 3.STP Sludge 4.E-Waste	:	16 kg /day. <b>Commercial</b> 49 kg /day. 74 kg/day 4.0 kg/day 123 kg/year



## **PART II**

### **ENVIRONMENT MANGEMENT PLAN**

M/s. MARVEL SIGMA HOMES PVT LTD propose to establish residential complex. Proposal project of Residential Complex “Marvel Ribera” is coming up in at, CTS No. 30A F.P No 199+ F.P No. 201 sub plot no.A, Sangamwadi T.P.S (Boat Club Road) Pune.

The issues likely to develop at various stages of the project e.g. preconstruction, construction & operation could be addressed by preparing a compatible environmental management plan (EMP) & its effective implementation. During study it is to be considered all the environmental attributes such as air, water, noise solid waste & socio-economic aspects etc.

The main aim of environment management plan is to conserve the resources minimize the waste generation, treatment of waste & recycling of material.

Also incorporates vegetation & landscapes of open area & also the post project quality monitoring.

Environmental management plan (EMP) is aimed at mitigating the possible adverse impact of a project & for ensuring to maintain the existing environmental quality. The EMP converses all aspects of planning, construction & operation of the projects, which are relevant to environment. It is essential to implement the EMP right from the planning stage and then continuing it throughout the construction & operations stage. Therefore the main objective of the EMP is to identify the projects specific activities that would have to be considered for investigation of the significant adverse impacts & the mitigation measures required.

During study of the environmental attributes it was seen that all the aspects would be considered to promote the better development in case of future aspects of projects as well as environmental aspects.

#### **1. Water Management:**

##### **Sewage Treatment**

Objective of Sewage treatment should be

- To treat sewage so that it can be re-used for toilet flushing/gardening.
- Balance water should be let out to Municipal sewer drain line.
- In order to treat the sewage effectively, SIBF Types sewage treatment is recommended:

Proposed residential project “Marvel Ribera”, CTS No. 30A F.P No 199+ F.P No. 201 sub plot no.A, Sangamwadi T.P.S (Boat Club Road) Pune by M/s. MARVEL SIGMA HOMES PVT LTD

- Treated sewage should be a reused the maximum extent for toilet flushing.
- The excess treated water should be let out to the nearest corporation sewer line along with road.

#### Description of treatment facility

The MBBR system is the nature’s way of handling wastewater and is based on Ecological Engineering. The typical sewage treatment envisaged for the construction of STP looking over all the Aspects of reliability & techno economic feasibility study for the proposed building unit will be Moving Bed Bio Reactor (MBBR). The wastewater is processed by this ecosystem which converts the impurities trapped in the biofilters into stable components followed by a polishing tertiary treatment. The final treated water meets the pollution board norms & can be reused for gardening / irrigation / construction / toilet flushing, etc.

#### Features of the design:

**Capacity of the plants:** 35 KLD

**Treated effluent quality:** Treated effluent meets the most stringent of the standards Compact and Elegant: The system elegantly designed with the particular emphasis on compactness, aesthetics and ergonomics.

Parameters	Unit	Inlet Water Quality	Treated water quality
pH	NA	5.0-8.5	5.5-9.0
Oil & Grease	ng/l	10-20	<10
BOD	ng/l	200-500	<10
COD	ng/l	350-450	<60
TSS	ng/l	150-200	<10
Nitrate	ng/l	15-16	<10
Dissolved PO <sub>4</sub>	ng/l	13-15	<5
Fecal Coliform	MPN/100L	Nil	Nil
Total Nitrogen	ng/l	120	<50

**Odor free Environment:** The system designs ensures and odor free environment unlike competing systems.

#### Residuals:

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Excess sludge from the biological treatment process is dewatered in filter place. This is preferred to other sludge drying methods for the following reasons:

- Saves 80 - 90% on electricity
- Easy to operate - only gardener level operator required
- Hence, saves 80 - 90% on O & M cost

[ about Rs. 3-5/- per cu.m.]

- Payback within 4 – 5 years!
- No problem of flow fluctuations  
in holidays / vacations
- No secondary sludge
- Resembles a beautiful garden!

#### Environmental Impacts and Life Cycle Assessment

- Positive environmental impacts.
- Use of a treated water for toilet flushing and the resulting water conservation
- As the operation is essentially soundless, no adverse noise impacts will be created

#### **B) Rain water harvesting:**

Rainwater Harvesting facilities will be created at the project site in the form of aquifer recharge. However, water requirement for the project will not be met from groundwater.

Such rainwater harvesting system should have two-fold objective:

- 1) To utilize rain water available on the plot in direct way or indirect way to reduce the load on water supply system.
- 2) To minimize the storm water drainage load to avoid water logging locally as well as on larger scale.

Run off calculation:

Level of Ground Water Table	13 M below ground level.
<b>Percolation Pits provided</b>	
<b>Budgetary allocation (Capital cost and O&amp;M cost)</b>	
Capital cost	Rs. 2.50Lakhs
O&M cost	Rs. 0.40 Lakhs

## **AIR POLLUTION CONTROLE**

### **DURING CONSTRUCTION PHASE:**

The project will contribute in higher dust level during construction phase. The concrete will be made from outside source of Ready Mix Plant. The debris and utilized construction material and earth from the construction site shall be removed immediately to recycle within the project so that no nuisance dust is generated due to wind. Construction activities shall not be allowed at night.

The site being influence by winds would result in quick dispersal of the pollutants and thereby the impacts due to NOx and SO2 emissions during the construction will be negligible. Therefore, considering all the air pollutants, it is not expected that air emission due to construction will exceed air quality standards (NAAQS)

Precautions, which would be taken to reduce dust generation during construction phase, are mentioned as follows:

- Concrete supplied from an outside source involves trucks carrying cement, gravel, sand travelling to site and may cause dust emission thus ready mix concrete carried in enclosed container will be used as it is better option compared to onsite batch mixing. The operations shall be carried out in a temporary enclosed shed and workers shall be provided with protection masks.
- Dust covers will be provided on trucks that would be used for transportation of materials prone to fugitive dust emissions.
- Water sprinkling on ground and new construction will be done at regular intervals to avoid dust generation.
- Mitigation measures shall include regular maintenance of machinery and provision of proposal protective equipments to workers where needed.
- Proper upkeep and maintenance of vehicle, sprinkling of water on roads and construction site and providing sufficient vegetation all around the plant site are some of the measures that would reduce the impact during construction phase.

### **AFTER COMPLETION**

The proposed project will not have any direct impact on air environment after completion. To ease the traffic congestion project proponent will provide well organized parking arrangement.

The vehicles employed by the developers shall be checked by vehicular emissions. The developers shall also impress upon the service agencies to get vehicles regularly checked for vehicular emissions.

During operational phase, two numbers of D.G. sets will be provided only in case of power failure of water pumps, fire pumps/ firefighting system, stretcher lifts, partial lighting in common

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lobbies/stairs, partial lighting in stilts/podium access roads etc. DG sets will be complying with CPCB norms for air pollutants.

Emission during construction and operation will be as per the desirable limits of CPCB standards.

## **NOISE POLLUTION CONTROL**

### **Construction Phase:**

During construction phase, source of noise pollution will be due to operation of machinery Earthmoving Machinery Mini Hoist Crane, Hoist Crane, Concrete mini mixer, Weight batcher etc. as well as transportation of vehicles. This will cause nuisance to the occupants of the nearby area. The project proponent has agreed to take precaution to control noise pollution as mentioned under:

- Use of equipment generating noise of not greater than 90 dB (A).
- High noise generating construction activities would be carried out only during daytime.
- Installation, use and maintenance of mufflers on equipment.
- Workers working near high noise construction machinery would be supplied with ear muffs/ear plugs.

### **Operation phase:**

The proposed project being Residential complex, the source of noise is vehicular noise only. The project proponents have propose to provide adequate parking arrangement, which would help in reducing noise levels due to vehicular movement in the parking area.

The project proponents have proposed wall and rows of trees, which would act as noise buffer and will reduce the noise level within site.

Canopies will be provided to the mechanical devices to reduce noise and vibration. There will not be any considerable impact on the ambient air quality around the project site as CPCB approved DG sets along with acoustic room will be developed and plantations will be provided.

## **SOLID WASTE MANAGEMENT**

### **CONSTRUCTION PHASES:**

Solid waste would be generated mainly due to excavation in the form of rubble and soil. This soil and rubble would be used for development of landscape within the projects site. The Biodegradable and non-biodegradable soil waste which will granted from labors will be sent to Municipal waste bins working within site.

### **OPERATION PHASE:**

Solid waste will be generated in the campus is domestic type having source separated dry and wet components. As far as possible the dry waste like paper, cardboard boxes, thermocol packing, plastic, etc. shall be sent to scrap vendor for recycling purpose. However, wet waste, which is biodegradable, shall be converted to bio-compost by adopting following aerobic composting method.

Solid waste from domestic sources shall be treated by the following ways:

- Wet garbage: Composting within the premises and using it as manure.
- Sludge from S.T.P will be used in –house.

Biodegradable and non-biodegradable waste will be segregated. Dry waste will be sent for recycling and ‘In vessel process’ will be used for composting of wet waste.

### **Solid Waste Management**

#### **During Operation Phase**

Quantity of solid waste-123 kg / day.

Quantity of wet waste. 74 kg / day

Quantity of Dry waste - 49 kg / day

Biodegradable and non-biodegradable waste will be segregated. Dry waste will be sent for recycling and wet waste will be treated by ‘In Vessel Process’ for composting.

## **1. GREEN BELT DEVELOPMENT**

The project proponent will also propose to develop landscape garden by planting native tree. The project proponents have proposed a landscape and covered with vegetation of indigenous variety.

### **ENERGY CONSERVATION**

Energy conservation measures are often the easiest, quickest and cheapest way to reduce costs and be environmentally pro-active Energy conservation program will be implemented through measures taken both on energy demand and supply. Energy conservation is focused during the complex planning and operation stages. The conservation efforts would consist of the following:

#### **Measures to reduce energy consumption-**

- Minimize use of air conditioning so as to use of architectural design.
- Maximize the use of natural lighting and ventilation through design.
- Purchase of energy efficient appliances (CFL FITTINGS)

- Constant monitoring of energy consumption and defining targets for energy conservation. Energy monitoring will be done with the help of Energy meters.
- Adjusting the settings and illumination levels to ensure minimum energy used for desired comfort levels. Design based on lux level calculations.
- Use of compact fluorescent lamps and low voltage lighting.
- Sunscreen films on windows to reduce heating inside the buildings.
- Awareness on energy conservation will be raised among the users of the building in the complex.
- Use of windmills to cover-up the part lighting load of common area

Maximum priority is given for placement of solar water on top terraces. The appurtenant spaces here common lighting is required are proposed to use unconventional energy.

### **ARCHITECTURAL DESIGNS**

- Maximum ground is covered by green patches to reduce reflection of heat from ground surface.
- Shade giving trees are proposed around the condominium especially on South & west side to cast shadow on the ground & building.
- By accommodating maximum parking area are covered parking, heat generation due to vehicle is compressed below the building.
- Thermal paint application is proposed for external walls which reduce & reflect heat. Direct exposure to sun is reduced by proposing double height terraces & double wall external walls. Adequate sunshades are proposed.

#### **Thermal Characteristics of the building envelop:**

- a) Terraces will be treated with a layer of brick bat coba for reduction in heat gain through roof.
- b) Overhang projections & horizontal band of 0.3m will be provided around the windows which will be reducing solar heat gain assures maximum natural light and ventilation in the buildings.
- c) External shading is prominently use in the complex intercepts solar heat before it reaches the glass /wall.
- d) External walls are 150mm with 10mm plaster on both the sides (cavity wall), double height terraces are provided to reduce direct exposure to sun. Tinted colored with light slightly tinted colors to reduce solar heat gain & will reflect heat.
- e) Friendly acrylic paint.

### **7. ENVIROMENTAL AND SAFETY CARE**

The project proponents shall follow all the safety rules and regulation as prescribed by

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regulatory authority as under- Fire and general safety Measures the system is having

a) Fire Hydrant System

b) Fire alarm System Manual

c) Portable Fire Extinguishers

a) Fire Hydrate System consist of following

- Wet Riser mm dia Class C from terrace to UG tank.100 mm dia G I Pipe Class C from water tank to booster pump & pump to terrace
- 5 HP Pump at terrace as booster as booster pump.
- Fire Hydrant Value, Fire House Pipe 63mm dia, Short Branch Pipe , House Reel drum – one each Landing
- Fire Inlet at parking and road side.
- Court Yard Hydrants on each 30Meter on periphery of building.
- One Pump on UG tank to give discharge of 2280 LPM @ meter head

b) Fire Alarm System

- Manual Call Point cum Hooter with microphone on each landing.
- Talk Back Public Address System Panel at Parking.

c) Portable Fire Extinguishers – At lift room, meter board, parking transformer room.

During Construction Phase:

- Fire Protection equipments like sand Buckets and extinguishes will be installed whenever it required.

During Operation Phase:

- Under Ground Storage Tank – U GT Fire Capacity-50 cum  
-Domestic tank Capacity-24 cum  
-Drinking water Capacity- 9.0 cum
- Fire Water Tank Overhead- 20 Cu.m

## **SEISMIC ENVIRONMENT AND PRECAUTIONS**

As per the Seismic Zoning Map of India Pune region falls under Zone -3 Stability Certificate , as per prevalent IS Code will be obtained for these buildings from registered Consulting Structural Engineer considering the seismic forces and wind forces etc.

## **WATER LOGGING-**



Proposed residential project "Marvel Ribera", CTS No. 30A F.P No 199+ F.P No. 201 sub plot no.A, Sangamwadi  
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The projects proponent has made proper storm water drain arrangement and rainwater harvesting will be implemented within their premises. Hence water logging will be less.

## 10. FUNCTIONS OF ENVIRONMENTAL MANGEMENT CELL

### 10.1 Formation of Environmental Management Cell:

Monitoring and feedback becomes essential to ensure that the mitigation measures planned by way of environmental protection management cell comprising senior officials may be constituted

To maintain the EMP, a structured Environmental Management Cell (EMC) interwoven with the existing management system will be created. EMC will undertake regular monitoring of the environmental and conduct yearly audit of the environmental performance during the construction of the project. It will also check that the stipulated measures are being satisfactorily implemented and operated. It shall also co-ordinate with local authorities to see that all environmental measures are well coordinated.

EMC will perform following functions

Monthly review of environmental problems and monitoring of installation / performances /maintains of pollution control measures.

Enforcement of latest rules and regulation under relevant Environmental protection acts.

Preparation of budgetary estimates to seek sanctions for new pollutions control measures if required and/or up-gradation of existing ones based on new technologies.

Emergency planning.

EMC shall meet at least once a month and take stock of progress of work relating to decision taken and targets set in the previous meeting.

## **FORMATION OF TASK FORCE**

A task having force having organizational set-up comprising staff of various grades shall be constituted. The task force will ensure following tasks:

Monitoring activities within core & buffer zone.

Monitoring of efficiency of pollution control schemes.

Preparation of maintenance scheduled of STP & composting plant and ensures that is followed strictly.

Inspection and regular cleaning of draining system.

Green- belt development.

Proposed residential project "Marvel Ribera", CTS No. 30A F.P No 199+ F.P No. 201 sub plot no.A, Sangamwadi  
T.P.S (Boat Club Road) Pune by M/s. MARVEL SIGMA HOMES PVT LTD

Water and energy conservation.

**Good housekeeping.**

Apprising EMC on regular basis.

**MONITORING PROGRAM**

A comprehensive environmental monitoring program that has been prepared for the purpose of implementation in the proposed residential complex will be strictly followed to ensure the success of environmental management activities.

It is proposed to carry out environmental monitoring work of factory by MoEF recognized laboratory. They will assign the work for carrying environmental audit for each year. Also environmental awareness program shall be conducted on regular basis.

Proposed residential project "Marvel Ribera", CTS No. 30A F.P No 199+ F.P No. 201 sub plot no.A, Sangamwadi  
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**PART –III**

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

**DURING OPERATIONAL PHASE:**

**CAPITAL INVESTMENT FOR ECOFRIENDLY FEATURES**

<b>Sr. No</b>	<b>Project</b>	<b>Capital Cost  ((Rs.)</b>	<b>O &amp; M Cost/Year  (Rs/Y)</b>
1	STP Cost	16,00,000	2,25,000
2	Rain water harvesting	2,50,000	40,000
3	MSW	8,50,000	1,50,900
4	Energy Saving	28,01,000	40,000
5	Landscaping	8,70,000	1,60,000
6.	Environmental Monitoring	-	1,81,600
<b>Total amount</b>		<b>63,71,000</b>	<b>7,97,500</b>

Proposed residential project "Marvel Ribera", CTS No. 30A F.P No 199+ F.P No. 201 sub plot no.A, Sangamwadi  
T.P.S (Boat Club Road) Pune by MARVEL SIGMA HOMES PVT LTD

# **ENCLOSURE NO. II**

**A COPY OF ENVIRONMENTAL CLEARANCE**



Government of India  
Ministry of Environment, Forest and Climate Change  
(Issued by the State Environment Impact Assessment  
Authority(SEIAA), Maharashtra)

To,

The Head D and D  
M/S. MARVEL SIGMA HOMES PVT LTD  
M/s.Marvel Sigma Homes Pvt Ltd. 301-302,Jewel Tower, Lane no -  
05,Koregaon Park Pune -411001

**Subject:** Grant of Environmental Clearance (EC) to the proposed Project Activity  
under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC)  
in respect of project submitted to the SEIAA vide proposal number  
SIA/MH/MIS/165551/2020 dated 30 Jul 2020. The particulars of the environmental  
clearance granted to the project are as below.

1. EC Identification No.	EC22B038MH197258
2. File No.	SIA/MH/MIS/165551/2020
3. Project Type	New
4. Category	B2
5. Project/Activity including Schedule No.	8(a) Building and Construction projects
6. Name of Project	Marvel Ribera
7. Name of Company/Organization	M/S. MARVEL SIGMA HOMES PVT LTD
8. Location of Project	Maharashtra
9. TOR Date	N/A

The project details along with terms and conditions are appended herewith from page  
no 2 onwards.

Date: 11/07/2022

(e-signed)  
Manisha Patankar Mhaiskar  
Member Secretary  
SEIAA - (Maharashtra)

*Note: A valid environmental clearance shall be one that has EC identification  
number & E-Sign generated from PARIVESH. Please quote identification  
number in all future correspondence.*

*This is a computer generated cover page.*

PARIVESH

(Pro-Active and Responsive Facilitation by Interactive,  
and Virtuous Environmental Single-Window Hub)



**STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY**

No. SIA/MH/MIS/165551/2020  
Environment & Climate  
Change Department  
Room No. 217, 2<sup>nd</sup> Floor,  
Mantralaya, Mumbai- 400032.

To  
M/S. MARVEL SIGMA HOMES PVT LTD,  
CTS No. 30A F.P No 199 + F.P No. 201 sub plot no.A,  
Sangamwadi T.P.S ( Boat Club Road) Pune.

Subject : Environment Clearance for Proposed Residential Building Project  
Marvel Ribera at CTS No. 30A F.P No 199 + F.P No. 201 sub plot  
no.A, Sangamwadi T.P.S ( Boat Club Road) Pune by M/S.  
MARVEL SIGMA HOMES PVT LTD

Reference : Application no. SIA/MH/MIS/165551/2020

This has reference to your communication on the above-mentioned subject. The proposal was considered by the SEAC-3 in its 117<sup>th</sup> meeting under screening category 8 (a) B2 as per EIA Notification, 2006 and recommend to SEIAA. Proposal then considered in 244<sup>th</sup> (Day-3) meeting of State Level Environment Impact Assessment Authority (SEIAA).

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

Proposal Number	SIA/MH/MIS/165551/2020	
Name of Project	Marvel Ribera	
Project category	8 a (B2)	
Type of Institution	Private	
Project Proponent	Name	M/s. Marvel Sigma Homes Pvt Ltd
	Regd. Office address	301-302, Jewel Tower, Lane no-5, Koregaon Park .
Consultant	VKe Environmental LLP	
Applied for	New Greenfield Project	
Details of previous EC	NA	
Location of the project	CTS No. 30A F.P No 199 + F.P No. 201 sub plot no.A, Sangamwadi T.P.S ( Boat Club Road) Pune	
Latitude and Longitude	Latitude - 18°32'23.09"N	
	Longitude - 73° 52' 34.78"E	
Total Plot Area (m2)	5,431.23	
Deductions (m2)	37.68	
Net Plot area (m2)	5,393.55	
Proposed FSI area (m2)	10,714.96	
Proposed non-FSI area (m2)	12,922.01	
Proposed TBUA (m2)	23,636.97	
TBUA (m2) approved by	Applied	

Planning Authority till date	Applied dated- 31/03/2021				
Ground coverage (m2) & %	-				
Total Project Cost (Rs.)	60 Cr				
CER as per MoEF & CC circular dated 01/05/2018	Activity	Location	Cost (Rs.)	Duration	
	Providing 1 numbers of Ambulance to PMC areas	(Hospital name- Sahyadri Hospital Pune)	40,00,000/-	1 year	
	Tree Plantation & adoption for 3 years (Total 400 native tree sapling)	Both side of Mula-Mutha river Side at Bund garden 3 km	20,00,000/-	3 year	
	Electrical Cremation Furnace	PMC area (Yerawada Smashan Bhumi)	60,00,000/-	1 year	
Details of Building Configuration : <Please use following legends: Floor = F , Parking = Pk, Podium = Po, Stilt =St, Lower Ground = LG, Upper Ground = UG, Basement = B, Shops = Sh>				Reason for Modification / Change	
Previous EC / Existing Building		Proposed Configuration			
Building Name	Configuration	Height (m)	Building Name	Configuration	Height (m)
			Building A	B1+B2+G.F+16F	51.15
Total number of tenements		37 tenements			
Water Budget	Dry Season (CMD)		Wet Season (CMD)		
	Fresh Water	22	Fresh Water	22	
	Recycled	29	Recycled	29	
	Swimming Pool	256	Swimming Pool	256	
	Flushing(Recycled)	11	Flushing(Recycled)	11	
	Gardening (Recycled)	7	Gardening	0	
	Total	40	Total	33	
	Waste water Generation	31	Waste water generation	31	
Water Storage Capacity for Firefighting / UGT (CMD)	UGT Fire Capacity-50 cum				
Source of water	PMC				
Rainwater Harvesting (RWH)	Level of the Ground water table:		8 to 13m		
	Size and no of RWH tank(s) and Quantity:		NA		

	Quantity and size of recharge pits:	02 No of RWH pits Size- 02 No 2.0m x 2.0m x 2.0m	
	Details of UGT tanks if any:	UGT Fire Capacity-50 cum Domestic tank Capacity-24 cum Drinking water Capacity- 9.0 cum	
Sewage and Wastewater	Sewage generation in CMD:	31	
	STP technology:	MBBR	
	Capacity of STP (CMD):	35	
Solid Waste Management during Construction Phase	Type	Quantity (kg/d)	Treatment / disposal
	Dry waste:	6.4	Handed over to authorized vendor
	Wet waste:	9.6	Handed over to authorized vendor
	Construction waste	16	
Solid Waste Management during Operation Phase	Type	Quantity (kg/d)	Treatment / disposal
	Dry waste:	49	Handed over to authorized vendor
	Wet waste:	74	Treatment by organic waste composter
	Hazardous waste:	00	NA
	Biomedical waste	-	NA
	E-Waste kg/year	123	Handed over to authorized vendor
	STP Sludge (dry)	4.0	Used as manure for gardening
Green Belt Development	Total RG area (m2):	541.19	
	Existing trees on plot:	125	
	Number of trees to be planted:	125	
	Number of trees to be cut:	16	
	Number of trees to be transplanted:	00	
Power requirement:	Source of power supply:	MSEDCL	
	During Construction Phase (Demand Load):	116.25 KVA	
	During Operation phase (Connected load):	827.07 KW	
	During Operation phase (Demand load):	425.19 KVA	
	Transformer:	01 X 630 KVA	
	DG set:	01 X 250 KVA	
	Fuel used:	HSD	
Details of Energy saving	Energy Saving using Energy efficient LED fixtures Against Conventional CFL/T8 fixture with Electronic Ballast for Common Area.	4.28%	
	Energy saving using Low Loss Transformer Against Conventional Transformer	7.71%	
	Energy Saving using Solar Water Heater Against Electrical Water Heater.	1.56%	
	Energy Saved by Solar PV	0.74%	



	Energy Saved by Automatic Timer logic controller for lighting Control Against No timer Control		3.44%	
	Energy Saved by Using VFD for Lift against conventional drive		5.57%	
	Total Energy Saving in Project In % by Energy saving measures		23.29%	
Environmental Management plan budget during Construction phase	Type	Details	Cost	
	Capital	Erosion control – dust suppression measures, barricading and top soil preservation, Labor Camp toilets & sanitation	14,60,600/-	
	O&M	Water, Noise, soil, air monitoring	1,81,000/-	
Environmental Management plan Budget during Operation phase	Component	Details	Capital (Rs.)	O&M (Rs./Y)
	Storm Water	-	-	-
	Sewage treatment	Treatment of Wastewater	16,00,000	2,25,000
	Water treatment	-	-	-
	RWH	Rain Water Harvesting Pits	2,50,000	40,000
	Swimming Pool	Swimming pool	40,00,000	30,000
	Solid Waste	Organic Waste composter	8,50,000	1,50,900
	Hazardous waste	-	-	-
	e-waste	-	-	-
	Green belt development	Landscaping	8,70,000	1,60,000
	Energy saving	Solar PV & Hot Water	28,01,000	40,000
	Environmental Monitoring	Water, Air, Noise monitoring		1,81,600
Disaster Management	Budget for Emergency	20,75,000	5,00,000	
Traffic Management	Type	Required as per DCR	Actual Provided	Area per parking (m <sup>2</sup> )
	4-Wheeler	117	192	12.50
	2-Wheeler	78	78	2.00
	Bicycles	78	79	1.40

3. Proposal is a new construction project. Proposal has been considered by SEIAA in its 244<sup>th</sup> (Day-3) meeting and decided to accord Environment Clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implantation of following terms and conditions-

**Specific Conditions:**

**A. SEAC Conditions-**

1. PP to submit the photographs of trees before transplantation & after transplantation for already transplanted trees.
2. Committee noted that, the STP is underground & it is constructed but not functional yet, therefore PP to ensure that STP to be constructed in order to have minimum 40%

area of STP, open to sky. PP to submit the design & cross section of the same. PP to submit the undertaking regarding the same.

3. PP to submit the water NoC.

**B. 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 & 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.
3. 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.
4. SEIAA after deliberation decided to grant EC for – FSI- 12199.48 m<sup>2</sup>, Non-FSI- 11127.82 m<sup>2</sup>, Total BUA- 23326.44 m<sup>2</sup>. (Plan approval-CC/2400/21, dated- 12.11.2021).

**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 land filling after recovering recyclable material.
- II. Disposal of muck, Construction spoils, including bituminous 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.
- VI. 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 flushing 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 covered 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 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.
- 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.
- II. 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 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.

- 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 earmarked 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 [parivesh.nic.in](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.
- 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.
- 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, SO<sub>2</sub>, NO<sub>x</sub> (ambient levels as well as stack emissions) or critical sector parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.

**C) General EC Conditions:-**

- I. PP has to strictly abide by the conditions stipulated by SEAC & 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.
  - III. 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 MoEF, 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 mentioned in the EIA 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 life as if applicable & this environment clearance does not necessarily implies that Forestry & Wild life clearance granted to the project which will be considered separately on merit.
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.
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.

7. Validity of Environment Clearance: The environmental clearance accorded shall be valid as per EIA 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 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, 1<sup>st</sup> Floor, D-Wing, Opposite Council Hall, Pune, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

  
Manisha Patankar-Mhaiskar  
(Member Secretary, SEIAA) 29/6/2022

Copy to:

1. Chairman, SEIAA, Mumbai.
2. Secretary, MoEF & CC, IA- Division MOEF & CC
3. Member Secretary, Maharashtra Pollution Control Board, Mumbai.
4. Regional Office MoEF & CC, Nagpur
5. District Collector, Pune.
6. Commissioner, Pune Municipal Corporation
7. Regional Officer, Maharashtra Pollution Control Board, Pune.

**Signature Not Verified**

Digitally signed by Manisha  
Patankar Mhaiska  
Member Secretary

Date: 7/11/2022 7:09:17 AM

Proposed residential project "Marvel Ribera", CTS No. 30A F.P No 199+ F.P No. 201 sub plot no.A, Sangamwadi  
T.P.S (Boat Club Road) Pune by MARVEL SIGMA HOMES PVT LTD

# **ENCLOSURE NO. III**

## **CONSENT TO ESTABLISH**

Apply for Consent to Establish UAN No:

MPCBCONSENT0000147928



Proposed residential project “Marvel Ribera”, CTS No. 30A F.P No 199+ F.P No. 201 sub plot no.A, Sangamwadi  
T.P.S (Boat Club Road) Pune by MARVEL SIGMA HOMES PVT LTD

# **ANNEXURE NO. 1**

**HYGIENIC, SANITARY MEASURES  
& FACILITIES PROVIDED TO  
CONSTRUCTION WORKERS**

Proposed residential project “Marvel Ribera”, CTS No. 30A F.P No 199+ F.P No. 201 sub plot no.A, Sangamwadi T.P.S (Boat Club Road) Pune by MARVEL SIGMA HOMES PVT LTD

**Hygienic, Sanitary Measures & Facilities Provided to Construction Workers**

**Project Name:** Proposed residential project “Marvel Ribera”

**Site Address:** CTS No. 30A F.P No 199+ F.P No. 201 sub plot no.A, Sangamwadi T.P.S (Boat Club Road) Pune.

**Total No. of Labor:** Peak : 100 Nos.

Average : 50 Nos.

**Facilities provided:**

1. We have provided Mobile toilets for Labor Hutments.
2. Separate storage tanks for domestic and Drinking water have been provided.
3. Electric bulbs and electricity have been provided.
4. Labor Hutments are isolated from the construction activity area for safety purposes.
5. Solid waste is being disposed of daily in the municipal collection system.
6. Separate arrangements for workers for having lunch & area are maintained from a hygiene point of view.
7. Worker’s health will be regularly monitored and even Health insurance is provided.
8. All construction activity will be followed strictly with guidelines of safety measures to assure worker’s health and safety.

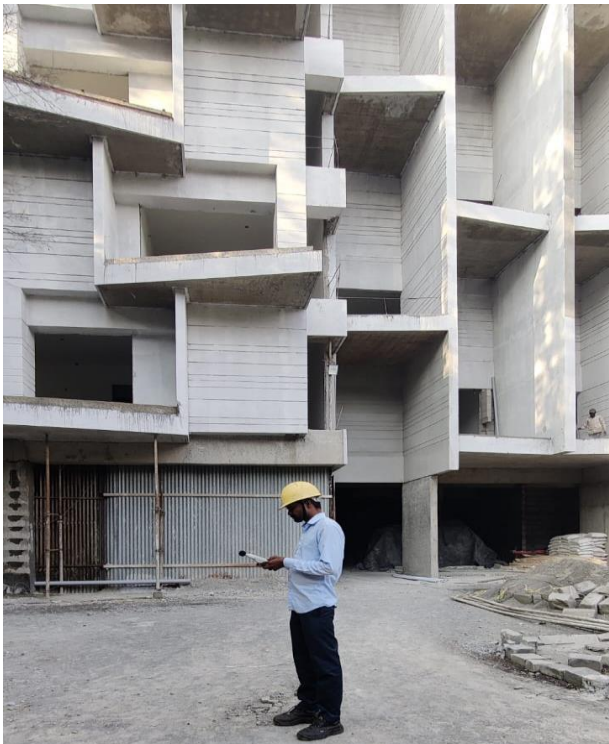
Proposed residential project “Marvel Ribera”, CTS No. 30A F.P No 199+ F.P No. 201 sub plot no.A, Sangamwadi  
T.P.S (Boat Club Road) Pune by MARVEL SIGMA HOMES PVT LTD

# **ANNEXURE NO. 2**

**SITE PHOTOGRAPHS**

Proposed residential project “Marvel Ribera”, CTS No. 30A F.P No 199+ F.P No. 201 sub plot no.A,  
Sangamwadi T.P.S (Boat Club Road) Pune by M/s. MARVEL SIGMA HOMES PVT LTD

Site Photographs



Proposed residential project “Marvel Ribera”, CTS No. 30A F.P No 199+ F.P No. 201 sub plot no.A, Sangamwadi  
T.P.S (Boat Club Road) Pune by MARVEL SIGMA HOMES PVT LTD




# **ANNEXURE NO. 3**

**AIR, NOISE, SOIL MONITORING REPORTS**



**Laboratory Recognized by Ministry of Environment, Forest & Climate Change, Govt. of India.**

ULR No: TC704223000005035F




TEST REPORT						
Lab Inward No. : SL/23-24/12/A/01			Date of Sampling : 30/11/2023-01/12/2023			
Client Name : M/s. Marvel Sigma Homes Pvt. Ltd. CTS No. 30A F.P No 199+ F.P No. 201 sub plot no.A, Sangamwadi T.P.S (Boat Club Road) Pune			Start of analysis : 01/12/2023			
			End of Analysis : 05/12/2023			
			Report Date : 05/12/2023			
			Sample Drawn By : SATPL Team on 30/11/2023-01/12/2023			
Order / Reference: As per TRF Dated 01/12/2023						
Monitoring For : Ambient Air Monitoring						
Sampling Procedure : As per IS 5182 & As per Customer Requirement						
Limits : National Ambient Air Quality Standards vide GSR 826 (E) Dated 16.11.2009						
Sampling Location : <i>Near Main Gate</i>						
Lateral Distance : 10.0 meter <i>Near Main Gate</i>				Duration : 24 Hrs.		
Receptor Height : 3.0 meter				Time : 10:10 Am to 10:10 Am		
RESULTS						
Sr. No.	Parameters	Results	Limits	Unit	Reference Method	Remark
1	Sulphur Dioxide (SO <sub>2</sub> )	10.55	≤ 80.0	µg/m <sup>3</sup>	IS 5182(Part-2);2001 R2022	Complies
2	Oxides of Nitrogen (NO <sub>2</sub> )	12.36	≤ 80.0	µg/m <sup>3</sup>	IS 5182(Part-6);2006 R2022	Complies
3	Particulate Matter PM <sub>10</sub>	48.82	≤ 100.0	µg/m <sup>3</sup>	IS 5182 (Part 23):2006 R 2022	Complies
4	Particulate Matter PM <sub>2.5</sub>	24.61	≤ 60.0	µg/m <sup>3</sup>	IS 5182 (Part 24):2019	Complies
5	Ozone (O <sub>3</sub> )	8.89	≤ 180(1 hr.)	µg/m <sup>3</sup>	IS 5182(Part-9):R 2019	Complies
6	Ammonia (NH <sub>3</sub> )	6.84	≤ 400.0	µg/m <sup>3</sup>	IS 5182(Part 25);2018	Complies
REMARK: Reference to above mentioned monitoring report all the parameters are within the limits.						
Authorized Signatory 				Authorized Signatory 		
Dr. Sachin Jadhao (Deputy Technical Manager)			Dr. Archana Waykole (Technical Manager)			

A part of the report has been generated on the next page. The results relate to sample tested.



**Laboratory Recognized by Ministry of Environment, Forest & Climate Change, Govt. of India.**



ULR No: TC704223000005035F

TEST REPORT						
Lab Inward No. : SL/23-24/12/A/01			Date of Sampling : 30/11/2023-01/12/2023			
Client Name : M/s. Marvel Sigma Homes Pvt. Ltd. CTS No. 30A F.P No 199+ F.P No. 201 sub plot no.A, Sangamwadi T.P.S (Boat Club Road) Pune			Start of analysis : 01/12/2023			
			End of Analysis : 05/12/2023			
			Report Date : 05/12/2023			
			Sample Drawn By : SATPL Team on 30/11/2023-01/12/2023			
Order / Reference: As per TRF Dated 01/12/2023						
Monitoring For : Ambient Air Monitoring						
Sampling Procedure : As per IS 5182 & As per Customer Requirement						
Limits : National Ambient Air Quality Standards vide GSR 826 (E) Dated 16.11.2009						
Sampling Location : <i>Near Main Gate</i>						
Lateral Distance :10.0 meter <i>Near Main Gate</i>				Duration : 24 Hrs.		
Receptor Height : 3.0 meter				Time : 10:10 Am to 10:10 Am		
RESULTS						
Sr. No.	Parameters	Results	Limits	Unit	Reference Method	Remark
1	Carbon Monoxide (CO)	0.33	≤ 04(1 hr.)	mg/m <sup>3</sup>	IS 5182(Part-10):R2019	Complies
2	Lead as (Pb)	<0.01	≤ 1.0	µg/m <sup>3</sup>	IS 5182(Part-22);R2019	Complies
3	Benzene (C <sub>6</sub> H <sub>6</sub> )	<1.0	≤ 05.0	µg/m <sup>3</sup>	IS 5182 (Part 11):2006 R2022	Complies
4	Benzo(a)Pyrene (BaP)	<1.0	≤ 01.0	ng/m <sup>3</sup>	IS 5182(Part-12);2004 R2019	Complies
5	Arsenic (As)	<5.0	≤ 06.0	ng/m <sup>3</sup>	CPCB Guidelines Volume-1:2012	Complies
6	Nickel (Ni)	<10.0	≤ 20.0	ng/m <sup>3</sup>	IS 5182(Part-26):2020	Complies
<b>REMARK:</b> Reference to above mentioned monitoring report all the parameters are within the limits.						
-----End of Test Report-----						
Authorized Signatory 					Authorized Signatory 	
Dr. Sachin Jadhao (Deputy Technical Manager)					Dr. Archana Waykole (Technical Manager)	

The results relate to sample tested.



Laboratory Recognized by Ministry of Environment, Forest & Climate Change, Govt. of India.

<b>TEST REPORT</b>						04/12/2023
<b>Sample / Report No.</b>		SL/23-24/11/O/21				
<b>Name of Customer</b>		M/s. Marvel Sigma Homes Pvt. Ltd.				
<b>Address of Customer</b>		CTS No. 30A F.P No 199+ F.P No. 201 sub plot no.A, Sangamwadi T.P.S (Boat Club Road) Pune				
<b>Order / Reference</b>		As Per TRF dated 30/11/2023				
<b>Sample declaration as provided by customer :</b>						
<b>Nature of Sample</b>		Garden Soil Sample				
<b>Batch No.</b>		NA				
<b>Sample Drawn by</b>		SATPL Team on 30/11/2023		<b>Sample Received On</b>		30/11/2023
<b>Start of Analysis</b>		30/11/2023		<b>End of Analysis</b>		04/12/2023
<b>Sample Container</b>		Ziplock bag		<b>Sample Quantity</b>		01 kg.
<b>Sampling Procedure</b>		NA				
<b>Limits</b>		NA				
Parameters	Results	Limits	Unit	Method	Remark	
<b>Chemical Testing</b>						
<b>Electrical Conductivity</b>	68.0	NA	µg/cm	IS:14767:2000R2021	NA	
<b>Color</b>	Dark Brown	NA	--	Visual Observation	NA	
<b>Texture</b>	Silt Loam	NA	--	lab manual on agriculture method	NA	
<b>Water Holding capacity</b>	38.6	NA	%	IS14765:2000	NA	
<b>Bulk Density</b>	1.28	NA	gm/cc	IS: 2720 (Part 9):1992 R 2021	NA	
<b>Cation Exchange capacity</b>	2.9	NA	meq/100 g	IS 2720 (Part 24):1976 R 2020	NA	
<b>Available Nitrogen</b>	0.092	NA	mg/kg	IS 14684:1999 R 2019	NA	
<b>Available Phosphorus</b>	207.0	NA	mg/kg	Olsen's Method	NA	
<b>SAR</b>	2.8	NA	--	Calculation Method	NA	
<b>Organic Matter</b>	1.0849	NA	%	IS 2720 (Part 22):1972 R 2020	NA	
<b>Organic carbon</b>	0.3284	NA	%	IS 2720 (Part 22) 1972/R 2015	NA	
<b>Nickel</b>	<0.01	NA	mg/kg	ICP Method	NA	
<b>Note: NA-Not Applicable</b>						
						<b>Authorized Signatory</b>
						
						<b>Dr. Archana Waykole (Technical Manager)</b>





|| Shreeji ||


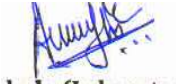
**SHREEJI AQUA TREATMENT PVT. LTD.**

*Innovative Environmental Solutions Under One Roof*

Pune: 21A, Shreeji Complex, Nehru Nagar, Pimpri, Pune: 411 018  
Vadodara: Plot No.1, Shah Ind. Park-1, Vadodara-Savli, Lamdapura. 391 775 Dist. Vadodra  
Lab: 1&4,Shreeji Terrace Apt. Plot No. 53, Purna Nagar, Chikhali, Pune: 411019  
Customer Care No.: +919225247365  
Web: www.shreejiaqua.com Email: info@shreejiaqua.com

An ISO 9001:2015  
Certified Company  
ISO 45001:2018

Laboratory Recognized by Ministry of Environment, Forest & Climate Change, Govt. of India.

TEST REPORT						04/12/2023
Sample / Report No.	SL/23-24/11/O/21					
Name of Customer	M/s. Marvel Sigma Homes Pvt. Ltd.					
Address of Customer	CTS No. 30A F.P No 199+ F.P No. 201 sub plot no.A, Sangamwadi T.P.S (Boat Club Road) Pune					
Order / Reference	As Per TRF dated 30/11/2023					
Sample declaration as provided by customer :						
Nature of Sample	Garden Soil Sample					
Batch No.	NA					
Sample Drawn by	SATPL Team on 30/11/2023	Sample Received On	30/11/2023			
Start of Analysis	30/11/2023	End of Analysis	04/12/2023			
Sample Container	Ziplock bag	Sample Quantity	01 kg.			
Sampling Procedure	NA					
Limits	NA					
Parameters	Results	Limits	Unit	Method	Remark	
Boron	<0.01	NA	mg/kg	ICP Method	NA	
Zinc	<0.01	NA	mg/kg	ICP Method	NA	
Chromium	<0.01	NA	mg/kg	ICP Method	NA	
Magnesium	<0.01	NA	mg/kg	ICP Method	NA	
Nickel	<0.01	NA	mg/kg	ICP Method	NA	
Arsenic	<0.01	NA	mg/kg	ICP Method	NA	
Mercury	<0.01	NA	mg/kg	ICP Method	NA	
<b>Note: NA-Not Applicable.</b>						
-----End of Test Report-----						
					<b>Authorized Signatory</b>	
						
					<b>Dr. Archana Waykole</b> (Technical Manager)	

The results relate to sample tested.



|| Shreeji ||

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Customer Care No.: +919225247365  
Web: www.shreejiaqua.com Email: info@shreejiaqua.com

An ISO 9001:2015  
Certified Company  
ISO 45001:2018



Laboratory Recognised by Ministry of Environment, Forest & Climate Change, Govt. of India.

ULR No. : TC704223000005030F

TEST REPORT						04/12/2023
Sample / Report No.	SL/23-24/11/IS/352					
Name of Customer	M/s. Marvel Sigma Homes Pvt. Ltd.					
Address of Customer	CTS No. 30A F.P No 199+ F.P No. 201 sub plot no.A, Sangamwadi T.P.S (Boat Club Road) Pune					
Order / Reference	As per TRF dated 30/11/2023					
Sample declaration as provided by customer :						
Nature of Sample	Drinking Water					
Batch No.	NA					
Sample Drawn by	SATPL Team on 30/11/2023	Sample Received On	30/11/2023			
Start of Analysis	30/11/2023	End of Analysis	04/12/2023			
Sample Container	Plastic Can	Sample Quantity	01 lit.			
Sampling Procedure	IS 3025 (Part 1) & IS 1622					
Limits	As per IS10500:2012 standards					
Parameters	Results	Limits	Unit	Method	Remark	
<b>Chemical Testing</b>						
pH	7.48	6.5 – 8.5	----	APHA, 24 <sup>th</sup> Edition 4500H+B :2022	Complies	
Total Dissolved Solids (TDS)	82.0	500.0 Max	mg/lit	APHA, 24 <sup>th</sup> Edition 2022/2540-C	Complies	
Chlorides as Cl <sub>2</sub>	13.0	250.0 Max	mg/lit	IS 3025 (Part 32):1988 R 2019	Complies	
Sulphate as SO <sub>4</sub>	5.46	200.0Max	mg/lit	IS 3025 (Part 24):2022	Complies	
Calcium	8.01	75.0 Max	mg/lit	IS 3025 (Part 40):1991 R 2019	Complies	
Magnesium	2.91	30.0 Max	mg/lit	IS 3025: Part 46;R2023	Complies	
Total Hardness	32.0	200.0 Max	mg/lit	IS 3025 (Part 21):2009 R2019	Complies	
Iron	<0.1	1.0 Max	mg/lit	IS 3025 (Part 2): 2004 R2019	Complies	
Turbidity	<0.1	1.0 Max	NTU	IS 3025 (Part 10):1984 R 2023	Complies	
Nitrate	0.149	45.0 Max	mg/lit	IS 3025 (Part 34):1988 R 2019	Complies	
Odour	Agreeable	Agreeable	---	IS 3025(Part 5):1983 R 2018	Complies	
Electrical conductivity@ <sup>0</sup> C	127.0	NA	us/cm	APHA, 23 <sup>rd</sup> Edition 2017/2510-B	NA	
Colour	<0.1	5.0 Max	Hazen	IS 3025 (Part 4):1983 R 2021	Complies	
Total Alkalinity	31.0	200 Max	mg/lit	IS 3025 (PART 23):1986 R2023	Complies	
<b>Note: NA-Not Applicable.</b>						
Authorized Signatory			Authorized Signatory			
Dr. Sachin Jadhao (Deputy Technical Manager)			Dr. Archana Waykole (Technical Manager)			



A part of the report has been generated on the next page. The results relate to sample tested.

Page 1 of 2



Laboratory Recognised by Ministry of Environment, Forest & Climate Change, Govt. of India.

ULR No. : TC704223000005030F

<b>TEST REPORT</b>						04/12/2023
<b>Sample / Report No.</b>		SL/23-24/11/IS/352				
<b>Name of Customer</b>		M/s. Marvel Sigma Homes Pvt. Ltd.				
<b>Address of Customer</b>		CTS No. 30A F.P No 199+ F.P No. 201 sub plot no.A, Sangamwadi T.P.S (Boat Club Road) Pune				
<b>Order / Reference</b>		As per TRF dated 30/11/2023				
<b>Sample declaration as provided by customer :</b>						
<b>Nature of Sample</b>		<i>Drinking Water</i>				
<b>Batch No.</b>		NA				
<b>Sample Drawn by</b>		SATPL Team on 30/11/2023	<b>Sample Received On</b>		30/11/2023	
<b>Start of Analysis</b>		30/11/2023	<b>End of Analysis</b>		04/12/2023	
<b>Sample Container</b>		Plastic Can	<b>Sample Quantity</b>		01 lit.	
<b>Sampling Procedure</b>		IS 3025 (Part 1) & IS 1622				
<b>Limits</b>		As per IS10500:2012 standards				
Parameters	Results	Limits	Unit	Method	Remark	
<b>Biological Testing</b>						
<b>Total coliform</b>	<2.0	Absent	Per 100ml	IS (1622):1981R2019	Complies	
<b>E.coli</b>	<2.0	Absent	Per 100ml	IS (1622):1981R2019	Complies	
<b>Note:</b> NA-Not Applicable.						
<b>Remark:</b> The Sample analyzed for above parameters is within the prescribed limits of IS 10500:2012.						
<b>&lt;2.0=Absent.</b> As Per IS 10500:2012 Standards the given water sample is potable for Drinking Purpose.						
<b>Disclaimer-</b> <i>information supplied by customers represented in italic font'</i>						
-----End of Test Report-----						
					<b>Authorized Signatory</b>	
						
						
					<b>Archana Waykole</b> <b>(Technical Manager)</b>	

This report cannot be reproduced in parts. The results relate to sample tested.



Laboratory Recognised by Ministry of Environment, Forest & Climate Change, Govt. of India.

**ULR: TC704223000005036F**

TEST REPORT					
Lab Inward No. : SL/23-24/12/A/02			Date of Sampling: 30/11/2023 – 01/12/2023		
Client Name : M/s. Marvel Sigma Homes Pvt. Ltd. CTS No. 30A F.P No 199+ F.P No. 201 sub plot no.A, Sangamwadi T.P.S (Boat Club Road) Pune			Start of analysis :30/11/2023		
			End of Analysis : 01/12/2023		
			Report Date : 05/12/2023		
			Sample Drawn By : SATPL Team on 30/11/2023 – 01/12/2023		
Order / Reference: As per TRF dated 01/12/2023					
Monitoring done by : SATPL Team on 30/11/2023 – 01/12/2023					
Monitoring For : Noise Level Reading, NLR					
Sampling Procedure : As Per CPCB Guideline & Customer's requirement					
Sampling Location : <i>Near Main Gate</i>			Lateral Distance : 10 meter from Near Main Gate		
Time : 12:00 pm to 12:00 pm			Sampling Duration : 24 Hourly		
Limits : As per Ministry of Environment & Forest Notification Dated 11/01/2010					
NOISE LEVEL MONITORING					
Date	Time	Noise Level, dB(A)	Date	Time	Noise Level, dB(A)
30/11/2023 – 01/12/2023	6 am to 10 pm (Day Time)	60.28	30/11/2023 – 01/12/2023	10 pm to 6 am (Night Time)	53.70
<b>Note:</b> Limit during Day Time < 55 dB (A) & Limit during Night Time < 45 dB (A)					
<b>Disclaimer: 'Information is supplied by customers represented in italic font'</b>					
-----End of Test Report-----					
Authorized Signatory			Authorized Signatory		
Dr. Sachin Jadhao (Deputy Technical Manager)			Dr. Archana Waykole (Technical Manager)		

Proposed residential project “Marvel Ribera”, CTS No. 30A F.P No 199+ F.P No. 201 sub plot no.A,  
Sangamwadi T.P.S (Boat Club Road) Pune by MARVEL SIGMA HOMES PVT LTD

# **ANNEXURE NO. 4**

**NEWSPAPER ADVERTISEMENT**

## To hear another's view, art we build: Mallika Sarabhai

Pinjra Tod activist Natasha Narwal and her father. Sarabhai drew attention to her mother, the pathbreaking dancer Mrinalini Sarabhai, who took social issues, like dowry deaths and violence against Dalits, to audiences through her performances. "I grew up assuming that all artists use art to talk about what bothered them about soci-

political beliefs and ideology, my ethical framework and my ability as an artiste, to reach out to people and talk about things that matter," she said.

Since then, her work has brought together "the strands of activism, political beliefs, giving voice to the voiceless, and pitching myself where I thought I could make a change and where

### PUBLIC NOTICE

We Marvel Sigma Homes Private limited hereby bring to the notice of the general public that Environment Impact Assessment Authority, Maharashtra (Government of Maharashtra) has issued Environment Clearance to our Proposed Residential Project named as "Marvel Ribera" located at CTS No.30A & CTS No.30B, F.P. No. 199 & F.P. No. 201, Sangamwadi Town Planning Scheme, Boat Club Road, Mouje Ghorpadi, Pune City, District Pune on 29/06/2022 having EC Identification No. EC22B038MH197258. This Clearance is in accordance with the provisions of 'EIA Notification 2006'. Copy of the available with Maharashtra Pollution Control Board and may also be seen Department of Environment Government of Maharashtra website <http://www.ec.maharashtra.gov.in>.

Pune

Date : 18/07/2022

Sd/-  
Marvel Sigma Homes Private Limited

GOVERNMENT OF MAHARASHTRA

६ || प्रभात पुणे, सोमवार, दि. १८ जुलै २०२२

### जाहीर सूचना

तमाम जनतेस सूचित करण्यात येते की, मार्वल सिग्मा होम्स प्रायव्हेट लिमिटेड यांच्या गाव मौजे घोरपडी, बोट क्लब रोड, पुणे येथील सिटीएस नं. ३०अ व ३०ब यासी फायनल प्लॉट नं. १९९ व फायनल प्लॉट नं. २०१, मधील 'मार्वल रिबेरा' या रहिवासी प्रकल्पास राज्य शासनाच्या पर्यावरण परिणाम मूल्यांकन प्राधिकरण, महाराष्ट्र यांच्याकडून EC Identification No: EC22B038MH197258 अन्वये पर्यावरणविषयक परवानगी मिळाली आहे. ही परवानगी पर्यावरण परिणाम मूल्यांकन अधिसूचना EIA Notification 2006 नुसार देण्यात आलेली आहे. सदर परवानगीची प्रत महाराष्ट्र प्रदूषण नियंत्रण मंडळ येथे उपलब्ध असून, पर्यावरण विभाग, महाराष्ट्र शासन यांच्या <http://www.ec.maharashtra.gov.in> या संकेतस्थळावर उपलब्ध आहे.

पुणे, दिनांक : १८/०७/२०२२

शिक्का

मार्वल सिग्मा होम्स प्रायव्हेट लिमिटेड  
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Proposed residential project “Marvel Ribera”, CTS No. 30A F.P No 199+ F.P No. 201 sub plot no.A,  
Sangamwadi T.P.S (Boat Club Road) Pune by MARVEL SIGMA HOMES PVT LTD

# **ANNEXURE NO. 5**

**LANDSCAPE LAYOUT**

