



# MELLIZA TOWERS

KOREGAON PARK ANNEXE

Date: 12/12/2024

To,  
The Chief Conservator of Forest,  
Ministry of Environment, Forests & Climate  
Regional Office (WCZ), Ground Floor, East Wing,  
New Secretariat Building, Civil Lines,  
Nagpur- 440001.

**Reference:** EC23B038MH158979 on dated 22/08/2023.

Dear Sir,

This is with reference to the proposal for grant of Environmental Clearance for Proposed Residential and Commercial Project at Sr. No. 61/21, Near Vadban, Village Mauje Mundhwa, Tal- Haveli, Dist-Pune by **M/s. Moonlight Housing Schemes LLP**. Through Director **Mr. Ajit Khaire and others**.

We are submitting the 6 monthly compliance reports with required annexures of the above referred project.

Kindly acknowledge the same



*Khaire AB*  
**M/s. Moonlight Housing Schemes LLP**  
Through Director Mr. Ajit Khaire and others

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Moonlight Housing Schemes LLP.

Sr No. 61 / 21, Near Vadban, Mundhwa, Mundhwa Police Station,  
Pune - 411036

# **SIX MONTHLY COMPLIANCE REPORT**

**For**

**Environmental Clearance for Proposed**

**Residential and Commercial Project at Sr.**

**No. 61/21, Village Mauje Mundhwa, Tal- Haveli, Dist-  
Pune**

**by**

**M/s. Moonlight Housing Scheme Pvt. Ltd. Through**

**Director Mr. Atit Admulwar and others**

**(December 2024)**

Sr. No.	Conditions as per EC	Compliance Status
	<b><u>Specific Conditions:</u></b>	
<b>B.</b>	<b><u>SEIAA Conditions:</u></b>	
1.	PP to provide mandatory RG 549.95 m <sup>2</sup> on mother earth. Local planning authority to ensure the compliance of the same.	<b>Noted and will be complied</b>
2.	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 and strength to increase the water permeable area as well as to allow effective fire tender movement.	<b>Noted and will be complied</b>  PP will keep open space unpaved to ensure permeability of water and will also provide grass pavers of suitable types and 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.	Arrangements will be made to achieve at least 5% of total energy requirement from solar/other renewable sources.
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 dated 04.01.2019	The project proponent will be taking various measures to comply with the Standard EC conditions relating to construction phase.  PP will be assured to comply with the conditions relating to the operation phase once the construction is completed. Detailed compliance status has not been prepared for operation phase conditions since the project is under construction phase only.
5.	SEIAA after deliberation decided to grant EC for – FSI- 29,117.18 m <sup>2</sup> , Non-FSI- 14,170.38 m <sup>2</sup> , Total BUA- 43,287.56 m <sup>2</sup> . (Plan approval –Plan No. Zone- 4/3509 dated 23/02/2023).	<b>Noted</b>
	<b><u>General Conditions:</u></b>	
<b>a)</b>	<b><u>Construction Phase:</u></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.	During construction phase the generation of Dry Waste will handed over to SWaCH.
II.	Disposal of muck during construction phase should	Debris generated on site will be reused on

	not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.	site for back-filling.
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 material will be generated since it is a construction activity.
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.	PP has made arrangement for drinking water and sanitary facility for construction workers. Photographs attached as <b>Annexure 4.</b>
V.	Arrangement shall be made that wastewater and storm water do not get mixed.	PP will make arrangement for the waste water and storm water so that it will not get mixed.
VI.	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices.	For water conservation measures, use of ready-mix concrete and practice of curing agents will be regularly use.
VII.	The ground water level and its quality should be monitored regularly in consultation with Ground Water Authority.	<b>Noted and will be complied</b>  No ground water extraction is being carried out.
VIII.	Permission to draw ground water and construction of basement if any shall be obtained from the competent Authority prior to construction/operation of the project.	PP will not be drawing ground water and not propose for basement in 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	Water fixtures of low flow will be used wherever possible to reduce the water consumption.
X.	The Energy Conservation Building code shall be strictly adhered to.	<b>Noted and will be complied</b>
XI.	All the topsoil excavated during construction activities should be stored for use in horticulture / landscape development within the project site.	The generated topsoil will be store and will be used for landscaping purpose.
XII.	Additional soil for leveling of the proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area	Excavated debris & construction waste will be reused on site for backfilling and plot leveling.

	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.	<b>Noted.</b> Samples were tested and monitoring reports attached as <b>Annexure 2</b>
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 Environmental Clearance.	PP will assure to adhere to all the stipulated conditions mentioned in Maharashtra (Urban Areas) Protection and Preservation of Trees Act, 1975.
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	<b>Noted.</b> Diesel generator sets will be used having low sulphur diesel consumption.
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 Environmental Clearance.	PP will assure to adhere to all the stipulated conditions mentioned in Maharashtra (Urban Areas) Protection and Preservation of Trees Act, 1975.
XVII.	Vehicles hired for transportation of Raw material shall strictly comply the emission norms prescribed by Ministry of Road Transport & Highway Department. The vehicle shall be adequately covered to avoid spillage / leakage.	Vehicles hired for bringing construction material to the site will regularly maintain/monitor and vehicles are covered to avoid spillage/leakage.
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	<b>Noted and we be complied</b>  Ambient Noise level and Ambient Air monitoring will be carrying out through MoEF approved laboratory. Monitoring reports attached as <b>Annexure 2</b>
XIX.	Diesel power generating sets proposed as source of backup power for elevators and common area illumination during operation phase should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use low Sulphur diesel. The location of the DG sets may be decided with in consultation	<b>Noted and we be complied</b>  CPCB approved enclosed type D.G. sets will be used in case of power failure.  The Stack height of DG set will be installed as per the Central Pollution Control Board (CPCB).

	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>Noted and we will comply</b> Project proponent has made Separate Environment Cell for regular supervision.
<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 convertor and treated waste (manure) should be utilized in the existing premises C) dry/inert solid waste should be disposed of to the approved sites for land filling after recyclable material.	<b>Noted and we will Comply</b> The solid waste generated during Operation phase will be segregated and handed over to authorized dealer for further disposal, Wet waste will be converted to manure after treatment in organic waste convertor.
II.	E-Waste Shall be disposed through Authorized vendor as per E-Waste (Management & Handling) Rules, 2016	<b>Noted and we will Comply</b> E-waste 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 of 100% grey water by decentralized treatment should be done. Necessary measures should be made to mitigate the odor 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.	STP of total capacity 185 KLD will be installed on site. Treated water will be reused on site for flushing & gardening. Excess treated water will be discharge to nearest municipal drainage. All the necessary measures will be taken to mitigate the odor problem from STP.
IV.	Project proponent shall ensure completion of STP, MSW disposal facility, Green belt development prior to occupation of the buildings. As agreed during SEIAA hearing, PP to explore possibility of utilizing excess treated water in the adjacent area for gardening before discharging it into sewer line.	<b>Noted and we will comply</b> Proposed sewage treated plant of the total capacity of STP of total capacity 185 KLD will be provided. The treated sewage water will be used for

	No physical occupation or allotment will be given unless all above said environmental infrastructure is installed and made functional including water requirement.	flushing and gardening.
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.	<b>Noted and we will comply</b>  Water NOC and drainage NOC has been received. Treated water will be reused in site for flushing and gardening. Excess water will be disposing as per environmental law.
	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 place should be utilized.	Entry and Exit points are separately build to avoid traffic congestion and parking is fully internalized so that public place will not be utilized
	PP to provide adequate electric charging points for electric vehicles (EVs.)	<b>Noted and we be complied</b>
	Green Belt Development shall be carried out considering CPCB Guidelines including selection of plant species and consultation with the local DFO / Agriculture Dept.	<b>Noted and we will comply</b>  Landscape area provided is more than 10% on virgin land as required. Native species has been proposed
	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	<b>Noted and we will comply</b>  To avoid the risk of pandemic situation precaution were taken on site i.e., sanitation, thermal checkup and provision were made for labor.
	Separate funds shall be allocated for implementation of environment protection measures/EMP along with item-wise break up. These costs shall be included as part of the project cost. The funds earmarked for the environmental protection measures shall not be diverted for the other purposes.	<b>Noted and we will comply</b>
	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 Marathi language of the local concerned within 7 days of issue of this letter, informing that the	Complied. Newspaper advertisement has been given in Local newspaper. English and Marathi newspaper advertisement.

	project has been accorded environmental clearance and copies of the EC are available with MPCB and may also be seen on Gov. website	
	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.	<b>Noted and complied</b>  PP is submitting Six monthly compliance reports to the department and MPCB.
	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.	<b>Noted and complied</b>
	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 CO2, NOx (ambient levels as well as stack emissions) or critical sector parameters indicated for the project shall be monitored and displayed at convenient location near the main gate of the company in the public domain.	<b>Noted and complied</b>
	<b><u>General EC Conditions</u></b>	
	PP has to abide by the conditions laid down by the SEAC and SEIAA	Noted. We will abide by conditions, if there is any deviation in proposal, we will approach to SEAC & SEIAA.
	If applicable, Consent to Establish shall be obtained from Maharashtra Pollution Control Board under Air and Water Act and a copy of the same to be submitted to the Environment Dept. before start of any construction work	PP has received CTE certificate no. Format1.0/JD (WPC)/UAN No.0000167743/CE/2307001324 dated 20-07-2023 attached as <b>Annexure 3</b>
	Under the Provisions of Environment protection act, 1986, legal construction shall be initiated against the project proponent if it was found that construction of the project has been started without	Environmental clearance has been obtained from the Environmental Department prior to the construction, EC23B038MH158979 dated 22/08/2023 attached as <b>Annexure 1</b>



	obtaining environmental clearance.	
	The project Proponent shall also submit Six Monthly on the status of compliance of the stipulated EC Conditions including result of monitoring data (both hard copies as well as by email) to the respective Regional Office MoEF, zonal office of CPCB and SPCB	<b>Noted and we will comply</b>  PP is submitting Six monthly, monitoring reports to the department and MPCB.
	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	<b>Will be complied.</b>
	No further expansion or modifications, other than mentioned in 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 the those submitted 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.	<b>Noted and will be complied</b>  In case of deviations or alterations in the project proposal will approach to SEAC & SEIAA.
	This EC is issued subject to obtaining NOC from Forestry & Wildlife Angle including clearance from the Standing Committee of the National Board for Wildlife if applicable and this EC does not necessarily imply that the Forestry & Wildlife clearance is granted project, which will be considered separately on merit.	The Project does not require a separate Forestry & Wildlife NOC.



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

To,

The -1

MOONLIGHT HOUSING SCHEMES PRIVATE LIMITED

Registered office 1212, Darode Jog House, Apte Road, Deccan  
Gymkhana, Pune - 411004 -411004

**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/INFRA2/419801/2023 dated 24 Feb 2023. The particulars of the  
environmental clearance granted to the project are as below.

1. EC Identification No.	EC23B038MH158979
2. File No.	SIA/MH/INFRA2/419801/2023
3. Project Type	New
4. Category	B
5. Project/Activity including Schedule No.	8(a) Building and Construction projects
6. Name of Project	Environmental Clearance for Proposed Residential and Commercial Project at Sr. No. 61/21, Village Mauje Mundhwa, Tal- Haveli, Dist-Pune by M/s. Moonlight Housing Scheme Pvt. Ltd. Through Director Mr. Atit Admulwar and others
7. Name of Company/Organization	MOONLIGHT HOUSING SCHEMES PRIVATE LIMITED
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: 22/08/2023

(e-signed)  
Pravin C. Darade , I.A.S.  
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.*

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**STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY**

No. SIA/MH/INFRA2/419801/2023  
Environment & Climate Change  
Department  
Room No. 217, 2<sup>nd</sup> Floor,  
Mantralaya, Mumbai- 400032.

To  
M/s. Moonlight Housing Scheme Pvt. Ltd.  
through Director Mr. Atit Admulwar and others,  
Sr. No. 61/21, Village Mauje Mundhwa,  
Tal- Haveli, Dist-Pune.

Subject : Environmental Clearance for Proposed Residential and Commercial Project at Sr. No. 61/21, Village Mauje Mundhwa, Tal- Haveli, Dist-Pune by M/s. Moonlight Housing Scheme Pvt. Ltd. through Director Mr. Atit Admulwar and others.

Reference : Application no. SIA/MH/INFRA2/419801/2023

This has reference to your communication on the above-mentioned subject. The proposal was considered by the SEAC-3 in its 171<sup>st</sup> meeting under screening category 8 (a) B2 as per EIA Notification, 2006 and recommend to SEIAA. Proposal then considered in 262<sup>nd</sup> (Day-2) meeting of State Level Environment Impact Assessment Authority (SEIAA) held on 11<sup>th</sup> July, 2023.

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

1.	Proposal Number	SIA/MH/INFRA2/419801/2023	
2.	Name of Project	Environmental Clearance for Proposed Residential and Commercial Project at Sr. No. 61/21, Village Mauje Mundhwa, Tal- Haveli, Dist-Pune by M/s. Moonlight Housing Scheme Pvt. Ltd. Through Director Mr. Atit Admulwar and others	
3.	Project category	8(a), B2 Building & construction project	
4.	Type of Institution	Private	
5.	Project Proponent	Name	Mr. Atit Admulwar
		Regd. Office address	Regd. Office – 1212, Darode Jog House, Apte Road, Deccan Gymkhana, Pune - 411004
		Contact number	9922009700
		e-mail	ec.moonlighthousing@gmail.com
6.	Consultant	Sneha Hi-Tech Products	
7.	Applied for	New project	
8.	Details of previous EC	NA	
9.	Location of the project	Sr. No. 61/21, Village Mauje Mundhwa, Tal- Haveli, Dist-Pune	
10.	Latitude and Longitude	Latitude: 18°32'00.80 N	
		Longitude: 73°55'28.06 E	
11.	Total Plot Area (m2)	6,400 Sq.m	
12.	Deductions (m2)	900.4 Sq.m	

13.	Net Plot area (m2)	5,499.56 Sq.m					
14.	Proposed FSI area (m2)	29,117.18 Sq.m					
15.	Proposed non-FSI area (m2)	14,170.38 Sq.m					
16.	Proposed TBUA (m2)	43,287.56 Sq.m					
17.	TBUA (m2) approved by Planning Authority till date	IOD in process.					
18.	Ground coverage (m2) & %	2,020.90 sqm (31.57% of total plot area)					
19.	Total Project Cost (Rs.)	94,72,32,000 Rs.					
20.	CER as per MoEF& CC circular dated 01/05/2018	-					
21.	<b>Details of Building Configuration:</b> <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)	This is a new project
	This is a new project			1 building	Wing A - LP+UG+27 <sup>th</sup> Floor	96.62	
					Wing B - LP+UG+27 <sup>th</sup> Floor	96.62	
					Wing C - LP+UG+1 <sup>st</sup> +2 <sup>nd</sup> Floor	12.93	
					MHADA and commercial - LP+UG+1 <sup>st</sup> +2 <sup>nd</sup> +3 Floor	22.83	
				Club house	G + 1	6.00	
22.	Total number of tenements		Residential: 132 flats + MHADA flats: 31 nos. = 163 nos. Commercials: Shops 72 nos.				
23.	Total number of Population		Residential: 988 nos. Commercial: 1,070 nos. Total Population: 2,058 nos.				
24.	Water Budget	Dry Season (CMD)			Wet Season (CMD)		
		Fresh Water	117	Fresh Water	117		
		Recycled	4	Recycled	00		

		(Gardening)		(Gardening)	
		Flushing	66	Flushing	66
		Swimming pool	00	Swimming pool	00
		Total	187	Total	183
		Wastewater generation	165	Wastewater generation	165
25.	Water Storage Capacity for Firefighting / UGT			Firefighting - Underground water tank: 400 m <sup>3</sup> OHT - 40 m <sup>3</sup>	
26.	Source of water	Pune Municipal Corporation			
27.	Rainwater Harvesting (RWH)	Level of the Ground water table:		Summer Season – 18.00 m. to 22.50 m. BGL. (20.25 m. Average) Rainy Season – 5.50 m. to 9.50 m. BGL (7.50 m. Average) Winter Season – 11.75 m. to 16.00 m. BGL. (13.88 m. Average)	
		Size and no of RWH tank(s) and Quantity:		NA -	
		Quantity and size of recharge pits:		No. of recharge pits: Total 4 Nos. (2 for Roof-Top & 2 for Surface Run-Off) Size: For RT - 2.25 m. X 2.25 m. X 1.50 m. (Or equivalent volume) with 50 m. Deep 6" Dia. Bore Well via 0.9 m. Dia. 1.0 m. Deep de-siltation pit. For Surface Run Off - 2.25 m. X 2.25 m. X 1.25 m. (Or equivalent volume) with 50 m. Deep 6" Dia. Bore Well via 2 no. of 0.9 m. Dia. 1.0 m. Deep de-siltation pits	
		Details of UGT tanks if any:		NA	
28.	Sewage and Wastewater	Sewage generation in CMD:	165		
		STP technology:	MBBR		
		Capacity of STP (CMD):	185		
SWM during Construction	Type	Quantity (kg/d)		Treatment / disposal	
	Dry waste:	8 kg/day		The maximum construction waste will be used within the site for leveling purposes and base course	
	Wet waste:	12 kg/day			
	Total waste	20 kg/day			

	Phase			preparation of internal approach roads.
30.	Solid Waste Management during Operation Phase	Type	Quantity (kg/d)	Treatment / disposal
		Dry waste:	359 kg/d	Handed over to authorize recycler for further handling & disposal purpose.
		Wet waste:	403 kg/d	Wet waste will be treated in onsite organic waste converter machine.
		Hazardous waste:	NA	NA
		Biomedical waste	NA	NA
		E-Waste	7 kg/day	Handed over to authorize recyclers for further handling & disposal purpose.
		STP Sludge (dry)	17.39 kg/day	Will be used as manure
31.	Green Belt Development	Total RG area (m2):		549.95
		Existing trees on plot:		21
		Number of trees to be planted:		69
		Number of trees to be cut:		00
		Number of trees to be transplanted:		11
32.	Power requirement:	Source of power supply:		MSEDCL
		During Construction Phase (Demand Load):		18 KW
		During Operation phase (Connected load):		2,485.31 KVA
		During Operation phase (Demand load):		1,268.29 KVA
		Transformer:		2 x 630 KVA
		DG set:		400 KVA
		Fuel used:		HSD
33.	Energy saving	Renewable energy 5% of demand load		
34.	Environmental Management plan budget during Construction phase	Type	Details	Cost
		Air Environment	Erosion control – dust suppression measures, barricading and top soil preservation	1.13
		Land	Labour Camp toilets & sanitation	4.80
		Health and Safety	Labour Safety Equipment's and training	4.00
		Health facility	Disinfection and Health Check-ups	0.72
		Environment Management	Environment management cell	1.70

		Environment Management		Environmental Monitoring		1.85	
35.	Environmental Management plan Budget during Operation phase	Component		Details		Capital (Rs.)	O&M (Rs./Y)
		Sewage Treatment Plant		Sewage Treatment Plant		50,38,600	13,87,405
		Water Treatment Plant		Water Treatment Plant		7,20,000	10,30,212.5
		Solid Waste Management		Solid Waste Management		14,50,000	2,92,770
		Bio-medical Waste Management		Bio-medical Waste Management		-	1,00,000
		Landscaping		Landscaping		2,04,499.12	20,449.91
		Rainwater Harvesting		Rainwater Harvesting		5,00,000	20,000
		Environmental Monitoring		Environmental Monitoring		-	3,00,000
		Solar Hot water & Solar PV system		Solar Hot water & Solar PV system		44,27,250	2,21,363
		Lightening Arrester Cost		Lightening Arrester Cost		9,00,000	-
		Environment Management Cell		To monitor sustainability of Environmental Infrastructure		-	9,60,000
		Disaster Management		Emergency preparedness plan to develop and implement on site		84,30,000	15,00,000
		Biomedical Waste Management		Handling segregation and management of waste like mask, shields, PPE kits etc.		-	1,00,000
		e-waste		Charges of authorized vendors		-	30,000
36.	Traffic Management	Type	Required as per DCR	Actual Provided	Total parking Area(m <sup>2</sup> )		
		4-Wheeler	212	393	12.5		
		2-Wheeler	841	-			
37.	Details of Court cases / litigations w.r.t. the project and project location if any.						NA

3. Proposal is a new construction project. Proposal has been considered by SEIAA in its 262<sup>nd</sup> (Day-2) meeting held on 11<sup>th</sup> July, 2023 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 details of rain water harvesting calculation supported by authentic data for rainy days considered.

2. PP to provide electric charging facility by providing charging points at suitable places as per Maharashtra Electric Vehicle Policy, 2021.
3. PP to ensure that, the water proposed to be used for construction phase should not be drinking water. They can use recycled water or tanker water for proposed construction.

**B. SEIAA Conditions-**

1. PP has provided mandatory RG area of 549.95 m<sup>2</sup> on mother earth. Local planning authority to ensure the compliance of the same.
2. 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.
3. PP to achieve at least 5% of total energy requirement from solar/other renewable sources.
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.
5. SEIAA after deliberation decided to grant EC for – FSI- 29,117.18 m<sup>2</sup>, Non FSI- 14,170.38m<sup>2</sup> and total BUA- 43,287.56m<sup>2</sup>. (Plan approval No.Zone-4/3509, dated 23.02.2023)

**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. 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.
- XVII. 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.
- XVIII. 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.
- XIX. 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. 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.
- XIII. 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.



Pravin Darade  
(Member Secretary, SEIAA)

Copy to:

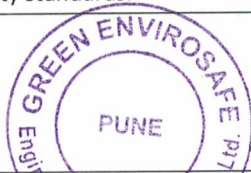
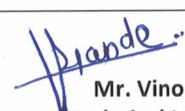
1. Chairman, SEIAA, Mumbai.
2. Secretary, MoEF & CC, IA- Division MOEF & CC
3. Member Secretary, Maharashtra Pollution Control Board, Mumbai.
4. Regional Office MoEF & CC, Nagpur
5. District Collector, Pune.
6. Commissioner, Pune Municipal Corporation
7. Regional Officer, Maharashtra Pollution Control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

Signature Not Verified

Digitally signed by Shri Pravin C. Darade, I.A.S. Member Secretary

Date: 8/22/2023 5:57:24 PM

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ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company

TEST REPORT				
Test Report No: -	GESEC/PRO/AAQM/2024-25/12/74		Report Date	09.12.2024
Sample ID: -	GESEC/PRO/AAQM/2024-25/12/74			
Name & Address of the Customer	M/s. Moonlight Housing Scheme Pvt. Ltd. Environmental Clearance for Proposed Residential and Commercial Project at Sr. No. 61/21, Village Mauje Mundhwa, Tal- Haveli, Dist-Pune by M/s. Moonlight Housing Scheme Pvt. Ltd. Through Director Mr. Atit Admulwar and others			
Ambient Air Sample Details				
Type	Sampling Location		Sampling done by	
Ambient Air	Near Main Gate		GESEC	
Sampling Time				
Start Time	Stop Time		Total Hrs.	
10.00 am	06.00 Pm		08 Hrs.	
Meteorological Data/Environmental Conditions				
Ambient Temperature °C	28.5	Wet Bulb Temperature °C	22.0	
Dry Bulb Temperature °C	28.5	Relative Humidity % RH	44.3	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
03.12.2024	04.12.2024	04.12.2024	09.12.2024	
Parameters	Method	Unit	NAAQ Standards	Result
Sulphur Dioxide (SO <sub>2</sub> )	CPCB Guidelines, Volume I ,36/2012-13, Page no. 01	µg/m <sup>3</sup>	≤ 80	23.85
Nitrogen of Oxides (NO <sub>2</sub> )	CPCB Guidelines, Volume I ,36/2012-13, Page no. 07	µg/m <sup>3</sup>	≤ 80	26.14
Particulate Matter PM <sub>10</sub>	CPCB Guidelines, Volume I ,36/2012-13, Page no. 11	µg/m <sup>3</sup>	≤ 100	55.02
Particulate Matter PM <sub>2.5</sub>	CPCB Guidelines, Volume I ,36/2012-13, Page no. 15	µg/m <sup>3</sup>	≤ 60	26.37
Ozone(O <sub>3</sub> ) For 1 Hrs.	CPCB Guidelines, Volume I ,36/2012-13, Page no. 31	µg/m <sup>3</sup>	≤ 180	10.87
Ammonia (NH <sub>3</sub> )	CPCB Guidelines, Volume I ,36/2012-13, Page no. 35	µg/m <sup>3</sup>	≤400	10.01
<b>Remark-</b>				
➤ All above results are within National Ambient Air Quality standards.				
				 <b>Mr. Vinod Hande</b> (Technical Manager) Reviewed & Authorized By

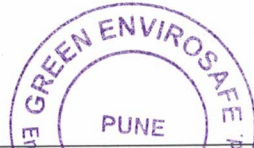

\*\*\*END OF REPORT\*\*\*

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- The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.
- The test report cannot be reproduced wholly or in part and cannot be used for promotional or publicity purpose without the written consent of laboratory, GESEC.
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- If on site their is no proper sampling location, Source or port available the results of testing are not challenge.
- MoEF approved Lab by Govt. of India. till 28/02/2026 and NABL approved by Quality Council of India. till 28/02/2026.

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**TEST REPORT**

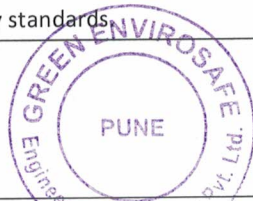
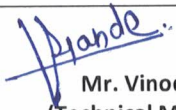
<b>Test Report No: -</b>	GESEC/PRO/AAQM/2024-25/12/75	<b>Report Date</b>	09.12.2024	
<b>Sample ID: -</b>	GESEC/PRO/AAQM/2024-25/12/75			
<b>Name &amp; Address of the Customer</b>	M/s. Moonlight Housing Scheme Pvt. Ltd. Environmental Clearance for Proposed Residential and Commercial Project at Sr. No. 61/21, Village Mauje Mundhwa, Tal- Haveli, Dist-Pune by M/s. Moonlight Housing Scheme Pvt. Ltd. Through Director Mr. Atit Admulwar and others			
<b>Ambient Air Sample Details</b>				
<b>Type</b>	<b>Sampling Location</b>	<b>Sampling done by</b>		
Ambient Air	Near Construction site	GESEC		
<b>Sampling Time</b>				
<b>Start Time</b>	<b>Stop Time</b>	<b>Total Hrs.</b>		
10.10 am	06.10 Pm	08 Hrs.		
<b>Meteorological Data/Environmental Conditions</b>				
<b>Ambient Temperature °C</b>	28.5	<b>Wet Bulb Temperature °C</b>	22.0	
<b>Dry Bulb Temperature °C</b>	28.5	<b>Relative Humidity % RH</b>	44.3	
<b>Date of Sampling</b>	<b>Sample Receipt Date</b>	<b>Analysis Start Date</b>	<b>Analysis End Date</b>	
03.12.2024	04.12.2024	04.12.2024	09.12.2024	
<b>Parameters</b>	<b>Method</b>	<b>Unit</b>	<b>NAAQ Standards</b>	<b>Result</b>
Sulphur Dioxide (SO <sub>2</sub> )	CPCB Guidelines, Volume I ,36/2012-13, Page no. 01	µg/m <sup>3</sup>	≤ 80	19.64
Nitrogen of Oxides (NO <sub>2</sub> )	CPCB Guidelines, Volume I ,36/2012-13, Page no. 07	µg/m <sup>3</sup>	≤ 80	25.32
Particulate Matter PM <sub>10</sub>	CPCB Guidelines, Volume I ,36/2012-13, Page no. 11	µg/m <sup>3</sup>	≤ 100	54.79
Particulate Matter PM <sub>2.5</sub>	CPCB Guidelines, Volume I ,36/2012-13, Page no. 15	µg/m <sup>3</sup>	≤ 60	25.02
Ozone(O <sub>3</sub> ) For 1 Hrs.	CPCB Guidelines, Volume I ,36/2012-13, Page no. 31	µg/m <sup>3</sup>	≤ 180	10.64
Ammonia (NH <sub>3</sub> )	CPCB Guidelines, Volume I ,36/2012-13, Page no. 35	µg/m <sup>3</sup>	≤400	10.47
<b>Remark-</b>				
➤ All above results are within National Ambient Air Quality standards				
				
		 <b>Mr. Vinod Hande</b> <b>(Technical Manager)</b> <b>Reviewed &amp; Authorized By</b>		

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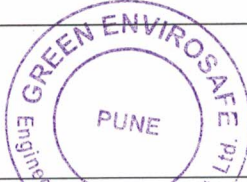

TEST REPORT				
Test Report No: -	GESEC/PRO/AAQM/2024-25/12/76		Report Date	09.12.2024
Sample ID: -	GESEC/PRO/AAQM/2024-25/12/76			
Name & Address of the Customer	M/s. Moonlight Housing Scheme Pvt. Ltd. Environmental Clearance for Proposed Residential and Commercial Project at Sr. No. 61/21, Village Mauje Mundhwa, Tal- Haveli, Dist-Pune by M/s. Moonlight Housing Scheme Pvt. Ltd. Through Director Mr. Atit Admulwar and others			
Ambient Air Sample Details				
Type	Sampling Location		Sampling done by	
Ambient Air	Near DG set		GESEC	
Sampling Time				
Start Time	Stop Time		Total Hrs.	
10.25 am	06.25 Pm		08 Hrs.	
Meteorological Data/Environmental Conditions				
Ambient Temperature °C	28.5	Wet Bulb Temperature °C	22.0	
Dry Bulb Temperature °C	28.5	Relative Humidity % RH	44.3	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
03.12.2024	04.12.2024	04.12.2024	09.12.2024	
Parameters	Method	Unit	NAAQ Standards	Result
Sulphur Dioxide (SO <sub>2</sub> )	CPCB Guidelines, Volume I ,36/2012-13, Page no. 01	µg/m <sup>3</sup>	≤ 80	19.74
Nitrogen of Oxides (NO <sub>2</sub> )	CPCB Guidelines, Volume I ,36/2012-13, Page no. 07	µg/m <sup>3</sup>	≤ 80	25.32
Particulate Matter PM <sub>10</sub>	CPCB Guidelines, Volume I ,36/2012-13, Page no. 11	µg/m <sup>3</sup>	≤ 100	53.08
Particulate Matter PM <sub>2.5</sub>	CPCB Guidelines, Volume I ,36/2012-13, Page no. 15	µg/m <sup>3</sup>	≤ 60	24.03
Ozone(O <sub>3</sub> ) For 1 Hrs.	CPCB Guidelines, Volume I ,36/2012-13, Page no. 31	µg/m <sup>3</sup>	≤ 180	10.74
Ammonia (NH <sub>3</sub> )	CPCB Guidelines, Volume I ,36/2012-13, Page no. 35	µg/m <sup>3</sup>	≤400	10.12
<b>Remark-</b>				
➤ All above results are within National Ambient Air Quality standards.				
				 <b>Mr. Vinod Hande</b> (Technical Manager) Reviewed & Authorized By

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TEST REPORT				
Test Report No: -	GESEC/PRO/ANLM//2024-25/12/77	Report Date	09.12.2024	
Sample ID: -	GESEC/PRO/ANLM/2024-25/12/77			
Name & Address of the Customer	M/s. Moonlight Housing Scheme Pvt. Ltd. Environmental Clearance for Proposed Residential and Commercial Project at Sr. No. 61/21, Village Mauje Mundhwa, Tal- Haveli, Dist-Pune by M/s. Moonlight Housing Scheme Pvt. Ltd. Through Director Mr. Atit Admulwar and others			
Ambient Noise Sample Details				
Type	Ambient Noise			
Sampling done by	GESEC			
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
03.12.2024	03.12.2024	03.12.2024	03.12.2024	
Test Location	Unit	Average Noise Level Readings		CPCB Standards dB(A)
		Day	Night	
Near Main Gate	dB(A)	53.9	43.8	55/45 dB(A)
Near Construction Site	dB(A)	52.6	42.5	
Near DG Set	dB(A)	53.1	43.3	
<b>Remark-</b>				
<ul style="list-style-type: none"> <li>➤ All above Noise level results are within Central Pollution Control Board Standards limit.</li> <li>➤ Day/Night -55/45 dB(A)</li> </ul>				
				 <b>Mr. Vinod Hande</b> (Technical Manager) Reviewed & Authorized By

\*\*\*END OF REPORT\*\*\*

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**TEST REPORT**

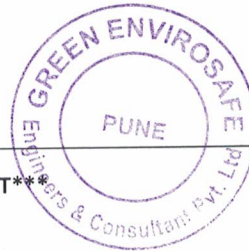
<b>Test Report No - GESEC/PRO/DW/2024-25/12/78</b>	<b>Report Date</b>	09.12.2024
<b>Sample ID - GESEC/PRO/DW/2024-25/12/78</b>	<b>Sample Details</b>	Labour
<b>Name &amp; Address of the Customer - M/s. Moonlight Housing Scheme Pvt. Ltd. Environmental Clearance for Proposed Residential and Commercial Project at Sr. No. 61/21, Village Mauje Mundhwa, Tal- Haveli, Dist-Pune by M/s. Moonlight Housing Scheme Pvt. Ltd. Through Director Mr. Atit Admulwar and others</b>	<b>Type of Sample</b>	Drinking Water
	<b>Volume Of Sample</b>	2 Lit plastics Can + 250ml Sterile Bottle
	<b>Sample Status</b>	Sealed
	<b>Sample Collected By</b>	GESEC
	<b>Date of Sample Collection</b>	03.12.2024
	<b>Date of Sample received in lab</b>	04.12.2024
	<b>Analysis start Date</b>	04.12.2024
	<b>Analysis End Date</b>	09.12.2024

**WATER ANALYSIS REPORT**

Parameter	Result	Limits as per IS 10500:2012	Unit	Standard Method
<b>Physical Parameter</b>				
Turbidity	<0.1	Max 1	NTU	APHA 2130 B,24TH Edition 2023
TDS	119.16	Max 500	mg/l	APHA 2540 C,24TH Edition 2023
Color	<5	Max 5	Hazen	APHA 2120 B,24TH Edition 2023
<b>Chemical Parameter</b>				
pH	7.63	6.5 to 8.5	--	APHA 4500 H+,B, 24 <sup>th</sup> Edition 2023
Total Hardness	78.14	Max 200	mg/l	APHA 2340 C,24TH Edition 2023
Total Alkalinity	56.09	Max 200	mg/l	APHA 2320 B,24TH Edition 2023
Sulphate	10.78	Max 200	mg/l	APHA 4500-SO4 - E 24th Edition 2023
Residual Chlorine	<0.1	Min 0.2	mg/l	EPA 334.0.
Chloride	13.05	Max 250	mg/l	APHA 4500-Cl-B 24 th Edition:2023
Calcium (as Ca)	10.74	Max 75	mg/l	APHA 3500-Ca B 24 th Edition:2023
Magnesium (as Mg)	4.11	Max 30	mg/l	IS 3025 (Part 46):2023
<b>Elemental Analysis</b>				
Iron as Fe	<0.1	Max 0.3	mg/l	EPA 200.7
<b>Microbiological Parameter</b>				
Total Coliform	Absent	Absent	Per 100ml	APHA 9222, J, 24th Ed. 2023
<i>E.coli.</i>	Absent	Absent	Per 100ml	APHA 9222, J, 24th Ed. 2023

**Remark(s):**

- The above water sample is Comply with required limit as per IS 10500:2012 for tested parameters.



*V. Hande*  
**Mr. Vinod Hande**  
(Technical Manager)  
Reviewed & Authorized By


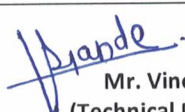
\*\*\*END OF REPORT\*\*\*

**Terms and conditions**

- The report is refer only to the sample tested and not applies to the bulk.
- The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.
- The test report cannot be reproduced wholly or in part and cannot be used for promotional or publicity purpose without the written consent of laboratory, GESEC.
- Samples will be retained for a period of seven (7) days after completion of analysis. Longer retention periods can be arranged, on request of the customer.
- We strictly maintain the confidentiality of all test result of sample(s) collected by us/ supplied by customer and not revel to third party unless required by the statutory or legal requirement.
- If on site their is no proper sampling location, Source or port available the results of testing are not challenge.
- MoEF approved Lab by Govt. of India. till 28/02/2026 and NABL approved by Quality Council of India. till 28/02/2026.

Recognised by Ministry of Environment and Forests (MoEF) / Central Pollution Control Board Govt. of India (CPCB)  
ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company

**TEST REPORT**

<b>Test Report No:</b> GESEC/PRO/SO/2024-25/12/79		<b>Date of Report</b>		09.12.2024	
<b>Sample ID:</b> GESEC/PRO/SO/2024-25/12/79		<b>Date of Sampling</b>		03.12.2024	
<b>Name &amp; Address of the Customer -</b> M/s. Moonlight Housing Scheme Pvt. Ltd. <b>Environmental Clearance for Proposed Residential and Commercial Project at Sr. No. 61/21, Village Mauje Mundhwa, Tal- Haveli, Dist-Pune by M/s. Moonlight Housing Scheme Pvt. Ltd. Through Director Mr. Atit Admulwar and others</b>		<b>Start Date of Analysis</b>		04.12.2024	
		<b>End Date of Analysis</b>		09.12.2024	
		<b>Sample Details</b>		At Construction site (Soil)	
		<b>Nature of sample</b>		solid	
<b>Sample Collected By</b>		<b>GESEC</b>			
<b>Parameter</b>	<b>Result</b>	<b>Unit</b>	<b>Standard Method</b>		
pH	6.45	---	Manual Soil Testing in India (Dept of Agriculture and cooperation, Ministry of Agri Gov. of India, page No.77 : 2011		
Electrical Conductivity	304.03	µs/cm	ICARDA-Methods of soil, Plant and water analysis, Page No. 67-68:2013		
Available Manganese as Mn	17.03	mg/kg	ICARDA-Methods of soil, Plant and water analysis, Page No. 113-116:2013		
Available Nitrogen	12.46	%	ICARDA-Methods of soil, Plant and water analysis, Page No. 90-93:2013		
Available Phosphorus	3.02	kg/ha	ICARDA-Methods of soil, Plant and water analysis, Page No. 150-151:2013		
Available Potassium	14.09	kg/ha	Food and agriculture organization Sec III,8-1,Page no115		
Sodium adsorption ratio	5.09	mmolc/l	Food and agriculture organization of the united nation Page no14:2016		
Total Nitrogen	0.074	%	ICARDA-Methods of soil, Plant and water analysis, Page No. 87-89:2013		
Exchangeable calcium	12.96	meq/100g	ICARDA-Methods of soil, Plant and water analysis, Page No. 87-89:2013		
Exchangeable Magnesium	4.30	meq/100g	ICARDA-Methods of soil, Plant and water analysis, Page No. 87-89:2013		
Total Zinc as Zn	121.40	mg/kg	USEPA-3050B,Rev 2 December (1996)		
Total Copper as Cu	22.08	mg/kg	USEPA-3050B,Rev 2 December (1996)		
Lead as Pb	10.97	mg/kg	USEPA-3050B,Rev 2 December (1996)		
Total Manganese as Mn	19.03	mg/kg	USEPA-3050B,Rev 2 December (1996)		
				 <b>Mr. Vinod Hande</b> <b>(Technical Manager)</b> <b>Reviewed &amp; Authorized By</b>	

\*\*\*END OF REPORT\*\*\*

**Terms and conditions**

- The report is refer only to the sample tested and not applies to the bulk.
- The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.
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- MoEF approved Lab by Govt. of India. till 28/02/2026 and NABL approved by Quality Council of India. till 28/02/2026.

# MAHARASHTRA POLLUTION CONTROL BOARD

Tel: 24010706/24010437  
Fax: 24044532/4024068/4023516  
Website: <http://mpcb.gov.in>  
Email: [jdwater@mpcb.gov.in](mailto:jdwater@mpcb.gov.in)



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

Infrastructure/RED/M.S.I

No:- Format1.0/JD (WPC)/UAN No.0000167743/CE/2307001324

Date: 20/07/2023

To,  
M/s. Moonlight Housing Scheme Pvt. Ltd.  
Through Director Mr. Atit Admulwar and  
others, Sr. No. 61/21, Village Mauje  
Mundhwa, Tal- Haveli, Dist-Pune



**Sub: Consent to Establish for construction project under Red Category**

**Ref:** Application Submitted by SRO Pune-I

Your application NO. MPCB-CONSENT-0000167743

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 of Authorization under Rule 6 of the Hazardous & Other Wastes (Management & Transboundary 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:

- The Consent to establish is granted for period up to Commissioning of the project or 5 Yrs whichever is earlier**
- The capital investment of the project is Rs.94.7232 Cr. (As per C.A Certificate submitted by industry).**
- The Consent to Establish is valid for construction project named as M/s. Moonlight Housing Scheme Pvt. Ltd. Through Director Mr. Atit Admulwar and others, Sr. No. 61/21, Village Mauje Mundhwa, Tal- Haveli, Dist-Pune on Total Plot Area of 6,400 SqMtrs for proposed total construction BUA of 43,287.56 SqMtrs including utilities and services.**
- Conditions under Water (P&CP), 1974 Act for discharge of effluent:**

Sr No	Description	Permitted (in CMD)	Standards to	Disposal
1.	Trade effluent	Nil	NA	NA
2.	Domestic effluent	165	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

- Conditions under Air (P& CP) Act, 1981 for air emissions:**

Stack No.	Description of stack / source	Number of Stack	Standards to be achieved
S-1	DG Set-400 kVA	01	As per Schedule -II

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

Sr No	Type Of Waste	Quantity & UoM	Treatment	Disposal
1	Dry Waste	359 Kg/Day	Segregation	To Local Body
2	Wet Waste	403 Kg/Day	Organic waste Converter with composting facility / Biogas digester with composting facility	As Manure
3	Dry Sludge	17.39 Kg/Day	Dewatering	As Manure

7. **Conditions under Hazardous & Other Wastes (M & T M) Rules 2016 for Collection, Segregation, Storage, Transportation, Treatment and Disposal of hazardous waste:**

Sr No	Category No.	Quantity	UoM	Treatment	Disposal
1	5.1 Used or spent oil	50	Ltr/A	Reprocessing	To Authorized Reprocesser

8. **Conditions under E-Waste Management:**

Sr No	Type of Waste	Quantity	UoM	Disposal Path
1	E Waste	7.00	Kg/Day	To Authorized Dismantler

9. This Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
10. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government agencies.
11. Project Proponent shall install online monitoring system for the parameter pH, SS, BOD and flow at the outlet of STP.
12. Project Proponent shall provide Organic waste digester with composting facility or biodigester with composting facility.
13. Project Proponent shall comply the Construction and Demolition Waste Management Rules, 2016 which is notified by Ministry of Environment, Forest and Climate Change dtd.29/03/2016.
14. The project proponent shall make provision of charging of electric vehicles in atleast 30 % of total available parking area.
15. The project proponent shall take adequate measures to control dust emission and noise level during construction phase.
16. PP shall obtain Environmental Clearance from competent authority for the proposed activity. PP shall not take effective steps towards construction without obtaining Environmental Clearance.
17. PP shall submit an affidavit in Boards prescribed format within 15 days regarding compliance of C to E.



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dcb62e00

**Signed by: Dr. J. B. Sangewar**  
Joint Director (WPC)  
For and on behalf of,  
**Maharashtra Pollution Control Board**  
jdwater@mpcb.gov.in  
2023-07-20 15:52:05 IST

**Received Consent fee of -**

<b>Sr.No</b>	<b>Amount(Rs.)</b>	<b>Transaction/DR.No.</b>	<b>Date</b>	<b>Transaction Type</b>
1	125000.00	MPCB-DR-19017	21/05/2023	NEFT

**Copy to:**

1. Regional Officer, MPCB, Pune and Sub-Regional Officer, MPCB, Pune I  
- 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:**

- 1) A] As per your application, you have proposed to provide MBBR based Sewage Treatment Plants (STPs) of combined capacity **185 CMD for treatment of domestic effluent of 165 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.

<b>Sr.No</b>	<b>Parameters</b>	<b>Limiting concentration not to exceed in mg/l, except for pH</b>
1	pH	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.**

<b>Sr. No.</b>	<b>Purpose for water consumed</b>	<b>Water consumption quantity (CMD)</b>
1.	Industrial Cooling, spraying in mine pits or boiler feed	0.00
2.	Domestic purpose	183.00
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-**

<b>Stack No.</b>	<b>Source</b>	<b>APC System provided/proposed</b>	<b>Stack Height(in mtr)</b>	<b>Type of Fuel</b>	<b>Sulphur Content(in %)</b>	<b>Pollutant</b>	<b>Standard</b>
S-1	DG Set-400 kVA	Acoustic Enclosure	4.00	HSD 80 Ltr/Hr	1	SO <sub>2</sub>	16.12 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/Nm <sup>3</sup>
-------------------------	---------------	------------------------

- 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 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/C2O/C2R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	C to E	Rs 10 Lakhs	15 Days	Compliance of Consent Conditions	upto Commissioning of the Project	upto Commissioning of the Project

\*\* 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

Srno.	Consent (C2E/C2O/C2R)	Amount of BG imposed	Submission Period	Purpose of BG	Amount of BG Forfeiture	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**

<b>A</b>	During construction phase, applicant shall provide temporary sewage and MSW treatment and disposal facility for the staff and worker quarters.
<b>B</b>	During construction phase, the ambient air and noise quality shall be maintained and should be closely monitored through MoEF approved laboratory.
<b>C</b>	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. Consumers or bulk consumers of electrical and electronic equipment listed in Schedule I shall ensure that e-waste generated by them is channelised through collection centre or dealer of authorised producer or dismantler or recycler or through the designated take back service provider of the producer to authorised dismantler or recycler
2. Bulk consumers of electrical and electronic equipment listed in Schedule I shall maintain records of e-waste generated by them in Form-2 and make such records available for scrutiny by the concerned State Pollution Control Board
3. Consumers or bulk consumers of electrical and electronic equipment listed in Schedule I shall ensure that such end-of-life electrical and electronic equipment are not admixed with e-waste containing radioactive material as covered under the provisions of the Atomic Energy Act, 1962 (33 of 1962) and rules made there under;
4. Bulk consumers of electrical and electronic equipment listed in Schedule I shall file annual returns in Form-3, to the concerned State Pollution Control Board on or before the 30th day of June following the financial year to which that return relates. In case of the bulk consumer with multiple offices in a State, one annual return combining information from all the offices shall be filed to the concerned State Pollution Control Board on or before the 30th day of June following the financial year to which that return relates.
5. 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.
6. 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).
7. 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.
8. 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.
9. 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 siting 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.
- 10 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.
- 11 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.
- 12 Applicant shall submit official e-mail address and any change will be duly informed to the MPCB.
- 13 The treated sewage shall be disinfected using suitable disinfection method.
- 14 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.
- 15 The applicant shall obtain Consent to Operate from Maharashtra Pollution Control Board before commissioning of the project.

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This certificate is digitally & electronically signed.

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**TECHNO COMMERCIAL OFFER**

**FOR**

**WASTE MANAGEMENT PROJECT**

**FOR**

**403Kg/Day ORGANIC WASTE**



**February 22, 2023**

**To,  
M/s. Atit Admulwar (Sr. No. 61/21,)  
Mundhwa,Pune.**

**Sub: Proposal of SMART Composting System for your Project.**

Dear Madam/Sir,

As per the discussion, we are sending a proposal for your requirement of Organic Waste Composting Systems.

- ❖ **OWC-1: - Smart Drum Composter-500 (Capacity up to 500 kg/day)** machine which is having a **built-in shredder** with MS with FRP Lining, a continuous composting machine with inlet & outlet chutes

Our enclosed proposal contains:

- |                                    |                     |
|------------------------------------|---------------------|
| <b>1. Introduction</b>             | <b>Annexure I</b>   |
| <b>2. Technical Specifications</b> | <b>Annexure II</b>  |
| <b>3. Commercial</b>               | <b>Annexure III</b> |
| <b>4. Photographs</b>              | <b>Annexure IV</b>  |

Should you need any further clarification/information, please feel free to contact us.

Thanks and regards,

Yours truly,

Swapnil Yadav

Smartenviro Systems Pvt Ltd





## **ANNEXURE I**

### **INTRODUCTION**

Waste, food waste, garbage, trash, junk, debris, and refuse are all names given to the Municipal Solid Waste (MSW) that is no longer useful in its current form. In contemporary society, many of the items used daily are designed to be used and discarded. The changing lifestyle has increased availability of disposables and also aggravated the problem of how to get rid of all this waste. Innovative strategies are needed to deal with the waste we produce today to prevent it from causing problems for future generations.

There are various ways to get rid of the MSW; mechanical composting is one of them. Mechanical Composting is one of the means of recapturing value through the use of natural biodegradation process.

Smart, the Mechanical Composter by Smart Enviro Systems operates with a very simple mechanism that breaks down the complex bio-degradable waste into its simpler forms. This deodorized waste-stock is further cured for a fortnight to produce the compost as end product. This compost can directly be used for the field application.

### **ABOUT COMPANY**

Smart Enviro Systems is a part of Shrikrishna Group, a well-diversified Engineering group engaged in the manufacturing of Rescue Equipments, Hydraulic Equipments & a new age lighting solution through Light Pipes. Shrikrishna Group is an OEM with an established infrastructure on the area of 40,000 sq.ft. in Pune. The Group has an established Dealer and Service network pan India. It is a set-up with skilled engineers and technicians, own R&D Center, modern machinery and management with futuristic outlook. The company believes in constantly evolving with new products and novel systems, Smart Enviro Systems is a result of such endeavors.

Shrikrishna Group earlier manufactured composting machines for Save Environment Engineers Pvt. Ltd. for their SAVECO range of products. These machines were well accepted by the number of Municipal bodies, residential & commercial complexes and reputed companies across India. Now as part of backward and forward integration the Group has in place, it has introduced a range of products and services to provide solutions in the areas of Municipal Solid Waste Management (MSW).

Our specially designed Smart composting machine is the heart of the system. Smart composting machine is available in the various capacities ranging from 100 Kgs/hr to 400 Kgs/hr&1000 Kg/hr for customized requirements of municipal councils.



**The Smart Enviro Systems is a complete solutions provider in the areas of MSW. The solutions provided by Smart Enviro Systems consist of:**

- Smart Composter
- Smart Curing Systems
- Smart Turner
- Smart Squeeze (de-watering Press)
- Smart Shredder
- Smart Road Sweeper
- Smart Fuel Bricked Machine

**Group Strengths:**

- Original Equipment Manufacturer (**OEM**) with an established infrastructure
- The only manufacturer of Rescue Equipments in India
- Engineering & in-house R&D
- Cost effective product range
- Winner of two National Awards
- National Quality Award- 1995
- Vikas Ratan Award- 1995
- Winner of Hari Malini Joshi Award for new product/ design



## **MECHANICAL COMPOSTING**

### **Concept:**

Mechanical Composting is the most efficient and effective mode of MSW disposal, carried out through a cylindrical container having multipurpose churning and chopping systems working simultaneously to crush and mix the waste matter so as to cut down on the volume and faster pre-decomposition. The machine is a very simple mechanism which accelerates the process of breaking down of the complex bio-degradable waste into its simpler forms, bringing ahead deodorized waste stock which is further cured for a fortnight cycle to produce the organic compost as end product. This compost can directly be used for the field application.

### **Smart Composting Machine:**

To carry out the mixing and crushing process the machine is empowered by a geared motor for mixing & churning purpose and a high-speed motor to crush the tough waste material. **The critical components of the machine are manufactured in SS 304 for longer life and better results.**

### **The Process:**

The 100% segregated bio-degradable waste has to be treated in this composting machine. The machine works in two process stages of 5 min. each to complete one cycle. It's termed as batch process. In initial 5 min. the machine crushes the waste & mixes it homogeneously with the bio decomposition culture.

In the second stage this homogeneous mixture is further mixed & churn with saw dust / bagasse, to soak the excess water content from the biomass which ultimately deodorizes it. Later **this pre-composted mass is kept for curing in the curing bays for about 18 days. Optimum irrigation has to be observed to the curing system.** After the 18<sup>th</sup> day the container is ready with compost and can be used for field applications.

We supply the complete system including the **Smart** composter and curing system including irrigation system to effectively treat the organic biodegradable portion of MSW to convert into compost.



PROCESSES



Collection of organic waste



Segregated organic waste



SMART Drum Composter



Compost



## **ANNEXURE II- Technical Specifications**

### **1. Smart Drum Composter DC-500:**

Machine Size in meter (L x W x H)	: 7.50 x 1.50 x 2.80
Power	: 7 HP
Waste Treatment Capacity	: 500 kg/day
Composter Drum	: MS with FRP Lining
Operation	: Automatic
Volume Reduction	: Up to 70-80%
<b>Shredder</b>	<b>: Built in (to crush all organic waste including Coconuts, non-veg bones etc.)</b>

### **Arrangements to be made by Client:**

- Power: Three phase, 415 Volts, 32 A connection with earthing and neutral.
- Drainage line for draining the condensed moisture.
- Shaded area for the machine.
- PCC Flooring (5 inches min.)



**Annexure III - COMMERCIAL:**

<b>SR NO</b>	<b>DESCRIPTION</b>	<b>AMOUNT(INR)</b>
<b>1</b>	<b>Smart Drum Composter DC - 500</b>	<b>14,50,000</b>
	<b>Total</b>	<b>14,50,000</b>

**Note: -The above price is excluding all taxes. GST will be charged extra on Composting machine, Transportation and Installation and Commissioning.**

**TERMS & CONDITIONS:**

1. Warrantee – 12 months from the date of invoice against any manufacturing defect.
2. Delivery: Within 6-8 weeks from the receipt of commercial P.O. and advance
3. Payment Terms:
  - 50%- advance at the time of order along with the commercial PO
  - 40%- after inspection at our Pune works before dispatch
  - 10%- on supply and erection and commissioning



**Annexure IV: Photographs.**



**SMART COMPOSTING DRUM**