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SIX MONTHLY POST EC COMPLIANCE REPORT

(Octomber 2025 to March 2026)

Name of Client:-	Kirloskar Oil Engines Limited.
Address:-	Plot No. D-1, Five Star MIDC Kagal-Hatkanangale, A/P-Talandage, Tal-Hatkanangale, Dist-Kolhapur.
EC Letter No. & Date:-	EC Identification No:-EC25B3813MH5357324N. EC File No:- SIA/MH/INFRA2/536493/2025. Date of EC Letter:- 04th November 2025.
Compliance Period:-	October 2025 to March 2026.
Submission Period:-	1st June 2026.

www.envirosphere.co.in | ashvin.esce@envirosphere.co.in | +91 9860220550

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1. Project Background

M/s. **Kirloskar Oil Engines Limited (KOEL)** is one of India's premier engineering companies engaged in the manufacture of diesel generator sets (DG Sets), internal combustion (I.C.) engines, agricultural pump sets, machined engine components, and allied power generation equipment. The company is part of the renowned Kirloskar Group and caters to domestic as well as international markets through technologically advanced manufacturing facilities.

The manufacturing facility is situated at Plot No. D-1, Five Star MIDC, Kagal–Hatkanangale Industrial Area, A/p. Talandage, Taluka Hatkanangale, District Kolhapur, Maharashtra. The industry has acquired a total land parcel of 6,50,900 sq.m. (approximately 161 acres) from Maharashtra Industrial Development Corporation (MIDC) and has been carrying out manufacturing operations since prior to the applicability of the EIA Notification, 2006.

The unit is presently engaged in the manufacture of I.C. Engines, Diesel Generator Sets, Agricultural Pump Sets, Machined Engine Components and Solar Power Generation, supported by modern machining, assembly, testing, painting, warehousing and utility facilities. The existing manufacturing activities are being carried out under a valid Consent to Operate granted by the Maharashtra Pollution Control Board (MPCB) vide Consent Order No. Format 1.0/CAC/UAN No. MPCBCONSENT-0000264928/CR/2604001052 dated 14.04.2026, valid up to 28.02.2027. The consent covers a capital investment of Rs. 996.30 Crores and authorizes production of 14,000 I.C. Engines/month, 1,625 Generating Sets/month, 1,000 Pump Sets/month, 70,000 Machined Spare Parts/month, along with operation of a 6.8 MW Solar Power Plant.

Prior to obtaining Environmental Clearance, the existing industrial campus comprised a Built-up Area (BUA) of approximately 2,10,769.92 sq.m. To meet the growing market demand and enhance manufacturing capacity, KOEL proposed expansion through construction of additional industrial infrastructure including Raw Material Warehouse, High Horse Power (HHP) Manufacturing Shed, Finished Goods Warehouse and associated utility buildings, involving an additional 47,520.64 sq.m. of built-up area. Accordingly, the project obtained Environmental Clearance (EC) from the State Environment Impact Assessment Authority (SEIAA), Maharashtra on 04 November 2025 vide EC Identification No. EC25B3813MH5357324N and File No. SIA/MH/INFRA2/536493/2025.

Subsequent to the grant of Environmental Clearance, the project also obtained Consent to Establish (Expansion) from the Maharashtra Pollution Control Board vide Consent Order No. Format 1.0/CAC/UAN No. 0000227209/CE/2503002982 dated 20.03.2025. The CTE permitted expansion involving an additional capital investment of Rs. 500 Crores, expansion of manufacturing infrastructure and enhancement of production facilities, while incorporating comprehensive environmental safeguards in accordance with the provisions of the Water Act, Air Act and Hazardous & Other Wastes Rules.

The existing manufacturing facility has developed a comprehensive environmental management system with emphasis on resource conservation, pollution prevention and sustainable manufacturing. The plant is equipped with a 120 CMD Effluent Treatment Plant (ETP) incorporating primary, secondary and tertiary treatment processes and a 422 CMD Sewage Treatment Plant (STP). Treated industrial effluent is recycled for process and other secondary applications to the maximum possible extent, while the balance treated water is utilized exclusively for on-site gardening. Similarly, treated sewage is reused for

toilet flushing, floor washing, firefighting and landscaping, thereby minimizing freshwater consumption and ensuring effective water resource management.

As part of its circular economy initiatives, KOEL has established an integrated Biogas Plant, Organic Waste Converter (OWC) and Vermicomposting Facility for scientific management of biodegradable waste generated from the canteen and other domestic sources. The generated biogas is utilized as a renewable fuel for cooking purposes within the facility, while the stabilized organic manure is used for greenbelt development. The industry also maintains an extensive system for segregation, storage and disposal of recyclable, hazardous and electronic wastes through MPCB/CPCB authorized recyclers, reprocessors and CHWTSDF facilities in accordance with applicable statutory requirements.

Air pollution control measures have been incorporated throughout the manufacturing facility. Paint booths are provided with water curtain systems integrated with VOC destruction units, pretreatment sections are equipped with fume extraction and demister systems, powder coating units are provided with multi-cyclone dust collectors, while engine testing facilities and DG sets are equipped with adequately designed stacks, exhaust silencers and acoustic enclosures to comply with prescribed emission and noise standards. The facility also operates Online Continuous Emission Monitoring Systems (OCEMS) in accordance with MPCB and CPCB requirements for continuous environmental surveillance. The industrial campus demonstrates a strong commitment towards ecological sustainability. A total greenbelt area of 65,530.75 sq.m. has already been developed within the premises comprising approximately 14,584 trees of indigenous and native species. As part of the proposed expansion, KOEL has further committed to plantation of an additional 400 native trees, thereby strengthening the ecological value of the industrial premises and improving the local micro-climate.

In line with the Company's commitment towards renewable energy and climate change mitigation, a 6.5 MW captive solar power plant has already been installed and is operational within the project premises, meeting nearly 90% of the plant's electricity requirement, thereby significantly reducing dependence on conventional energy sources and lowering greenhouse gas emissions.

Further, KOEL has established a dedicated Environment Management Cell comprising qualified environmental professionals responsible for implementation of statutory compliance, operation and maintenance of pollution control systems, environmental monitoring, waste management, occupational health and safety, regulatory reporting and continual environmental performance improvement, as stipulated under the consent conditions.

To ensure continual environmental protection and sustainable operation of the facility, the company has earmarked an Environmental Management Plan (EMP) budget of approximately Rs. 3.21 Crores for operation and maintenance of pollution control systems, environmental monitoring, greenbelt development, waste management, occupational health and safety measures, resource conservation initiatives and statutory compliance.

Overall, M/s. Kirloskar Oil Engines Limited has developed an environmentally sustainable manufacturing facility incorporating advanced pollution control infrastructure, renewable energy utilization, scientific waste management practices, extensive greenbelt development and robust environmental management systems, thereby ensuring compliance with the Environmental Clearance, MPCB Consent conditions and applicable environmental regulations while supporting long-term industrial growth.

Monitoring the Implementation of Environmental Safeguards

Ministry of Environment, Forest & Climate Change
Regional Office (Nagpur),
Monitoring Report
Part-I
DATA SHEET

Basic information:

1.	Project Type: River-valley / Mining / Industry /Thermal / Nuclear / Other (Specify)	Building Construction
2.	Schedule and category of the Project as per EIA, 2006	8(b) Category B1 : **Townships and Area Development Projects**
3.	Category of the project as per CPCB Guidelines (Red, Orange, Green)	Red
4.	Name of the project and project proponent	Project Name: - Proposed Expansion of Industrial Shed Construction by Kirloskar Oil Engines Limited Project Proponent: Makarand K Joshi
5.	Clearance Letter (s) / OM No. and date (Chronological Order)	**EC Identification No. EC25B3813MH5357324N** **File No.** SIA/MH/INFRA2/536493/2025 dated 04/11/2025 (**Annexure-15)**
6.	Location a. District (s) b. State (s) c. Latitude d. Longitude	a. District: Kolhapur b. State: Maharashtra c. Latitude: 16° 36'57.38"N d. Longitude: 74°22'10.61"E
7.	Address for correspondence a. Address of concerned Project Chief Engineer (with Pin Code & Telephone/ Telex/ Fax Numbers and Email id):	Mr. Makarand K Joshi Corporate Office Address: Kirloskar Oil Engine Limited, Laxmanrao Kirloskar Road, Khadki, Pune-411003., Khadki, PUNE, Maharashtra-411003. Email ID: rajesh.deshpande@kirloskar.com
8.	a. Salient features of the Project	EC was granted by SEIAA, Maharashtra on dated 04.11.2025 on Plot area 6,50,900 sqm with Total BUA 2,58,290.64 sqm. **(Annexure-A: EC Letter)** As on date 2,10,769.92 sqm of area i.e. 65% of Total EC Built Up Area of proposed work of proposed expansion area consisting plinth construction

		and shed construction is completed**.** Remaining area as per EC is under construction. CTE granted to the project from MPCB vide consent No. **Format1.0/CAC/UAN No.0000227209/CE/2503002982** Dated 20/03/2025. (**Annexure-14:** Granted CTE Copy) Valid Existing CTO for Kirloskar Oil Engine Limited granted from MPCB vide No; Format1.0/CAC/UAN No. MPCB CONSENT-0000264928/CR/2604001052 on date 14/04/2026 valid up to 28.02.2027. **Details on EMP as follows:** **A. Sewage Generation:** At present, 422 CMD capacity of Sewage Treatment Plant (STP) is installed for the combined treatment of 187.5 CMD sewage and 115 CMD primary effluent. For ongoing construction work temporally mobile toilets with septic tank and soak pits are provided for sewage management. **B. Air Emission:** I. 65% of the project part is under construction hence for construction work air dust emission water sprinkling is being carried out on roads and construction area. II. To dust control construction site barricading is provided III. Construction phase mitigation measures as per EMP is being followed.
	b. Environmental Management Plan	C. **Greenbelt:** Required Recreational Ground/ Landscape/ Green area/ Open space is 65,090.00 Sq.Mt. while we have been provided 65,530.75 Sq.Mt. as open space where, total of **14,584** nos. of **trees** planted within the project site. Tree plantation has been carried out by the project proponent with preference given to **native and locally suitable species** to ensure better adaptability and sustainability. The developed green belt helps in improving the microclimate and acts as a buffer for dust and noise within the premises. **EMC:** An Environmental Management Cell (EMC) has been established to oversee and implement environmental management

<table>
<tr><td></td><td></td><td>measures during operation phases of the project. The EMC is responsible for monitoring compliance with applicable environmental norms and ensuring effective implementation of mitigation measures.

<table><tr><th>Sr. No.</th><th>Officials Name</th><th>Qualification</th></tr><tr><td>1</td><td>Rajesh Deshpande</td><td>General Manager (Civil Engineer)</td></tr><tr><td>2</td><td>Mahesh Joshi</td><td>Deputy Manager (Civil Engineer)</td></tr></table></td></tr>
<tr><td>9.</td><td>Break-up of the Project area:
a. Submergence Area: Forest & non-Forest
b. Others</td><td>No any area under submergence, as project site is located at Plot No. D-1, Five Star MIDC Kagal-Hatkanangale, A/p.-Talandage Tal. Hatkanangale, Dist. Kolhapur.

b. Other Area: 6,50,900 sqm (Plot Area)</td></tr>
<tr><td>10</td><td>a. Total Plot Area
b. Built – Up Area (Including Road)
c. Open Space available
d. Green belt area</td><td>a. Total Plot Area- 6,50,900 sqm
b. Total Built-up Area: 2,58,290.64 sqm out of which 2,10,769.92 sqm of area construction is completed.
c. Open Area: 65,530.75 sqm
d. Total Green Belt Area – 65,530.75 sqm of area is earmarked as RG/Open area where 14,584 nos. of trees planted within the project site.</td></tr>
<tr><td>11</td><td>Financial Details
a. Project costs as originally planned & subsequent revised estimates and the year of price reference.
b. Allocations made for Environmental Management Plan with item wise & year wise breakup.
c. Actual expenditure incurred on the Project so far
d. Actual expenditure incurred on the Environmental Management Plan so far</td><td>a. Total cost of the project is Rs.1400 Cr (Existing Rs.900 + Proposed Rs.500 Cr)
b. Budget cost for total EMP of the project is Rs. 3.21 Cr
c. For EMP implementation such as STP, garden, construction phase EMP Rs. 1.03 Cr has been spent</td></tr>
<tr><td>12</td><td>Forest land requirement:</td><td>Not applicable. As there is no forest land involved in the project site.</td></tr>
</table>

	The status of approval for diversion of Forestland for non-forestry use	
13	Whether project located in Critically Polluted Area/Severely Polluted	No, the Five Star MIDC Kagal-Hatkanangale site is not listed under CPA monitored by the CPCB.
14	Status of construction: a. Date of commencement (Actual and/or planned) b. Date of completion (Actual and/or planned)	a. Commencement- 15th November, 2025 b. To be Completed- 30th March 2027. The total project construction is not yet completed as per EC. Out of the total EC-sanctioned built-up area of 2,58,290.64 sqm, only 2,10,769.92 sqm of built-up area has been constructed/completed till date which is 65% of Total EC Built Up Area
15	Production details as per EC & CTO	Not Applicable The project involves the construction of an Industrial sheds.
16	Reasons for the delay if the project is yet to start	Project is under construction. No delay in project start
17	KML file of the project	Google Imagery of project site & KML File is enclosed.
18	Status of Public Hearing Commitments	Not applicable. As per EIA Notification 2006 and amendment there of Building Construction Project Activity doesn't require Public Hearing
19	Status of R&R	Not applicable, as the project site is owned private land by project proponent Kirloskar Oil Engines Limited
20	Dates of site visits: a. The dates on which the Project was monitored by Regional Office on previous occasions, if any b. Date of site visit for this monitoring Report	a. Not applicable b.
21	Purpose of present Site visit:	For CCR
22	Pending litigation if any or directions issued by any regulatory authority.	Nil.

Part-II

Compliance Status

Specific Conditions:

Sr. No	Conditions as per EC dated 04.11.2025.	Status as per six monthly compliance report submitted by the PP
	A. SEAC Conditions:	
1	PP to obtain IOD/IOA/Concession Document/Plan Approval or any other form of documents as applicable clarifying its conformity with local planning rules and provisions indicating all required RG area as per prevailing Hon'ble Supreme Court Order. PP to obtain all mandatory NOCs from the concerned planning authority and the planning authority shall not issue occupation certificate unless PP obtains the same.	Compiled. We have obtained the Plan Approval No. DB.KH/FS/D-1/DIS/105894 of 2025 dated 21.04.2025 from MIDC, Kolhapur. Approved plan is per MIDC DC Rule where required RG/ Open space is 65,090.00 Sq.Mt. while we have been proposed 65,530.75 Sq.Mt. which is more than the required. We have been already obtained Water NOC, Provisional Fire NoC, MEPL Membership for solid waste disposal. Construction work is going as per approved plan. There is no occupancy as on date for proposed expansion. **Annexure 1 – Approved Plan.**
2	PP to prepare and implement plan to make proposed project a plastic free zone.	A plastic waste management plan has been prepared and implemented for the project. The project premises are maintained as a plastic-free zone by restricting singleuse plastics and promoting reuse and recycling practices. **Annexure 2- Plastic Free Zone Undertaking** **Annexure 3- Plastic Waste management plan**
3	PP to ensure to achieve the standard parameters of the treated sewage as per order issued by the Hon'ble National Green tribunal on 30.04.2019. PP to ensure that, the water proposed to be used for construction phase should not be drinking water.	An STP of 422 CMD capacity has already been installed and is operational at the existing facility. The treated sewage generated from the STP is consistently maintained within the standards prescribed by the Hon'ble National Green Tribunal (NGT) vide its order dated 30.04.2019. The same treatment technology, operational practices, and compliance measures shall continue to be adopted for the proposed expansion project to ensure adherence to all applicable environmental norms and discharge standards. Further, an undertaking has been submitted confirming that no potable/drinking water shall be used for any construction activities. The water requirement during the construction phase shall be met through treated water from the existing STP and/or water supplied through authorized tankers. A copy of the undertaking in this regard is enclosed for ready reference and record. **Annexure 4: Undertaking regarding non-use of drinking water for construction activities.**

		Annexure 5: Undertaking for compliance of STP treated parameter.
4	PP and the planning authority shall ensure that, the construction and demolition waste (C and D waste) is collected and treated at designated places as per Construction and Demolition Waste Management Rules, 2016 amended from time to time.	In the proposed expansion project, an existing shed admeasuring 1,350.16 sq.m. was proposed for demolition, and the demolition activity has been completed. The demolished shed primarily consisted of metal-sheet structures, and the recovered metal sheets were sold to authorized scrap vendors for recycling. The dismantled masonry and concrete debris generated during demolition were reutilized for filling low-lying areas and internal road construction within the project Remarks Page 5 of 20 premises, wherever technically feasible. The management of Construction and Demolition (C&D) Waste has been carried out in accordance with the provisions of the Construction and Demolition Waste Management Rules, 2016. Any surplus C&D waste, if generated, shall be disposed of through authorized agencies in compliance with applicable regulations. **Annexure 6: Undertaking for Construction and Demolition (C&D) Waste Management is enclosed.**
5	PP to provide electric charging facility by providing charging points at suitable places as per Maharashtra Electric Vehicle Policy, 2021	Partly Complied / Under Implementation Construction activities for the proposed expansion comprising a Built-Up Area (BUA) of 47,520.64 sq.m. are currently in progress. Overall 65% of proposed work of proposed expansion area consisting plinth construction and shed construction is completed. We have planned to provide Electric Vehicle (EV) charging points within the proposed parking area as part of the sustainable transportation infrastructure for the project. At present, 65% construction work has been completed, and the parking area construction is yet to be completed. The installation of EV charging points shall be undertaken during the parking area demarcation and development stage. **Annexure 7: Undertaking for EV Charging Provision**
6	PP to ensure to achieve minimum 5% energy saving by using non-conventional energy source.	The project has already installed and operates a solar power plant as a non-conventional energy source. Through the utilization of solar energy, approximately 90% energy savings are being achieved. Demand Load : Solar Power Project : 6.8 MW **Annexure 8:** Solar Power Generation Project Details
7	PP has provided mandatory RG area of 65530.75 m2 on mother earth without any construction. Local planning authority to ensure the compliance of the same.	We have obtained the Plan Approval No. DB.KH/FS/D-1/DIS/105894 of 2025 dated 21.04.2025 from MIDC, Kolhapur. Approved plan is per MIDC DC Rule where required RG/ Open space is 65,090.00 Sq.Mt. while we have been provided 65,530.75 Sq.Mt. as open space where 14584 nos. of trees are. Provided RG area is on mother earth only without any construction **Annexure 1 – Approved Plan.**
8	PP to keep open space unpaved so as to ensure permeability of water. However, whenever paving is deemed necessary, PP to provide	Already provided 65,530.75 Sq.Mt. as open space which is mother earth hence there is 100% permeability of water.

	grass pavers of suitable types & strength to increase the water permeable area as well as to allow effective fire tender movement.	
9	PP to achieve at least 5% of total energy requirement from solar/other renewable sources	Presently we have already provided 6.8 MW power generation which 90% of against total energy consumption. In addition to that solar street lights and motion sensor based lights are installed within the industry area which conserve addition 25% energy conservation against conventional energy consumption. **Annexure 8: Solar Power Generation Project Details**
10	In view of Maharashtra Electric Vehicle Policy, 2025, PP to provide electric vehicle D. C. Charger for 20% of total parking provided, the number of D. C. Chargers should he worked out as provided in Niti. Ayog Handbook of EV charging infrastructure implementation.	The project is currently under construction phase. We shall have provided DC charging infrastructure for electric vehicles for at least 30% of the total parking capacity in accordance with the Maharashtra Electric Vehicle Policy, 2025. **Annexure 9 – Parking Layout**
11	PP Shall comply with Standard EC conditions mentioned in the Office Memorandum issued by MoEF& CC vide F.No 22-34/2018-1A III dt.04.01.2019.	The project site is currently under the construction phase. We shall abide with applicable EC condition mentioned in Office Memorandum issued by MoEF& CC vide F.No.22-34/2018-IA III dt.04.01.2019. As per MoM 04.01.2019 we have obtained Plan Approval from MIDC, Fire IOD, Water NoC, etc. Other condition of Dust mitigation, water spinking in dusty areas, air quality monitoring. Construction Noise monitoring. Mobile Toilets to construction worker. RMC for construction Purpose. Other miscellaneous compliance such as Advertisement in local News paper on 08.11.2025 and EC Letter and compliance updation on company website.
12.	SELAA after deliberation decided to grant EC for-FSI-2,58,290.64 m2, Non FSI-Nilm2, total BUA-2,58,290.64-m2. (Plan approval No. DB.KH/FS/D-1/DIS/105894 of 2005 dated 21.04.2025).	As per accorded EC of proposed expansion of Industrial Shed construction having BUA 47,520.64 sq.mt. area is under construction. Out of total proposed expansion area 65% construction is completed and remaining area is under construction. Plinth level and shed construction upto roof level is completed.
General Conditions:		
1.	The solid waste generated should be properly collected and segregated. Dry/inert solid waste should be disposed of to the approved sites for land filling after recovering recyclable material.	The solid waste generated from the project shall be properly collected and segregated at source into biodegradable, recyclable, and inert fractions. Recyclable materials shall be recovered and sent to authorized recyclers, while dry/inert waste shall be disposed of at approved disposal/landfill sites as per applicable regulations. Wet waste generated during the construction phase is being treated in the existing treatment facility.

2.	Disposal of muck, Construction spoils, including bituminous material during construction phase should not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in the approved sites with the approval of competent authority.	During the construction phase, muck, construction spoils and other debris generated from the project properly managed and reused within the site only for backfilling and levelling purpose.
3.	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.	Construction activities for the proposed expansion commenced in January 2026. As per the Construction Environmental Management Plan (EMP), a designated area adjacent to the site office has been earmarked for the temporary storage of dry construction and demolition (C&D) waste. Empty paint containers, thinner cans, and other related waste generated during construction are being segregated and stored in a safe and environmentally sound manner. The collected waste is periodically handed over to authorized vendors/recyclers already engaged at the existing facility for its proper disposal and recycling, ensuring compliance with applicable environmental regulations and good housekeeping practices. We shall comply that any hazardous waste generated in the construction phase is being handled, stored, and disposed of in accordance with the applicable rules and norms, with necessary approvals from the Maharashtra Pollution Control Board.
4.	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.	The project is currently in the construction phase. Adequate drinking water and sanitary facilities, including mobile toilets (10 nos.), have been provided for construction workers at the project site. Wastewater generated during the construction phase is being treated in the existing treatment facility, and solid waste is being properly collected, segregated, and managed as per applicable regulations to ensure its safe disposal.
5.	Arrangement shall be made that waste water and storm water do not get mixed.	Separate drainage networks have been provided for wastewater and storm water to ensure that no mixing occurs. Wastewater is collected and conveyed to the treatment facility, while storm water is managed through a dedicated storm water drainage system. At present activity storm water collection and drainage system is already designed.
6.	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices.	The project is currently in the construction phase. Ready Mix Concrete (RMC) is being utilized to minimize onsite mixing activities, reduce water consumption, and control dust emissions. In addition, efficient

		construction practices and appropriate curing methods are being adopted to optimize water usage during construction, thereby reducing the overall water demand.
7.	The ground water level and its quality should be monitored regularly in consultation with Ground Water Authority.	Ground water quality analysis and report is attached as an **Annexure-11**. On the basis analysis report it has been observed that there is no contamination of ground water.
8.	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. Permission for ground water withdrawal for basement construction is not applicable, as no basement excavation/ground water extraction has been proposed for the project.
9.	Fixtures for showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control.	We shall ensure that the provision of low-flow fixtures for showers, toilet flushing, and drinking water facilities through the use of aerators, pressure-reducing devices, and/or sensor-based controls to promote water conservation during the construction phase.
10.	The Energy Conservation Building code shall be strictly adhered to	We shall ensure that the Energy Conservation Building code shall be strictly comply. **Annexure 12 – Energy Undertaking.** **Annexure 13- ECBC Compliance Report**
11.	All the topsoil excavated during construction activities should be stored for use in horticulture/landscape development within the project site.	All topsoil excavated during construction activities shall be carefully removed, stored separately, and protected from erosion or contamination. The preserved topsoil shall be reused for horticulture, landscaping, and green belt development within the project site. The topsoil generated during excavation is being stripped separately and stored in designated stockpiles of maximum 2–3 m height. The stockpiles is being protected with tarpaulin/grass cover and peripheral drainage to prevent erosion. The preserved topsoil shall be reused for landscaping, greenbelt development, and site restoration. No topsoil shall be disposed of outside the project site.
12.	Additional soil for levelling of the proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improved.	The project site is currently under the construction phase. To the extent possible, soil generated from excavation and site development activities is being utilized within the project site for leveling and grading purposes. This practice minimizes the requirement for external soil procurement and helps preserve and maintain the natural drainage pattern of the area.
13.	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.	Noted and Agreed with Compliance. Ground water quality analysis and report is attached as an **Annexure- 11**. On the basis analysis report it has been observed that there is no contamination of ground water.
14.	PP to strictly adhere to all the conditions mentioned in	We shall strictly adhere with all the conditions mentioned in Maharashtra (Urban Areas) Protection and Preservation of Trees

	Maharashtra (Urban Areas) Protection and Preservation of Trees Act, 1975 as amended during the validity of Environment Clearance.	Act, 1975 as amended during the validity of Environment Clearance.
15.	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.	Presently 85 kVA of used during the construction phase are operated using low-sulphur diesel fuel to minimize air emissions and environmental impacts. The DG sets conform to the applicable provisions of the Environment (Protection) Rules and prescribed air and noise emission standards.
16.	Vehicles hired for transportation of Raw material shall strictly comply the emission norms prescribed by Ministry of Road Transport & Highways Department. The vehicle shall be adequately covered to avoid spillage/leakages.	Vehicles hired for transporting construction materials to the site are inspected to ensured they are in good condition and possess valid Pollution Under Control (PUC) certificates confirming compliance with applicable air and noise emission standards. These vehicles operate only during non-peak hours once construction begins. Only trucks with valid PUC certificates are allowed on-site.
17.	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.	Noted and Agreed for Compliance. Ambient noise level measured at site during day and night and observed noise level within the permissible limit. Construction ambient air quality results were also found under the permissible limit of NAAQS. **Annexure 12: Ambient Noise Level Monitoring Report** **Annexure 13: Ambient Air Quality Report**
18.	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.	We have provided 85 kVA DG set onsite for construction purpose. Provided DG set is confirming emission norms and DG set stack height as per Environment (Protection) Act, 1986. Proposed DG set having consumption of low Sulphur diesel.

19.	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.	For supervision and implementation of construction phase mitigation measures a special designated person Mr. Rajesh Deshpande is appointed he is looking all statutory compliance part. Contact No.: 9689904606 Email Id: rajesh.deshpande@kirloskar.com
20.	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.	This condition will comply during operation phase. Presently project is under construction phase
21.	E-waste shall be disposed through Authorized vendor as per E-waste (Management and Handling) Rules, 2016.	This condition will comply during operation phase. Presently project is under construction phase
22.	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 give100% treatment to sewage/Liquid waste and explore the possibility to recycle at least 50% of water, Local authority should ensure this	This condition will comply during operation phase. Presently project is under construction phase

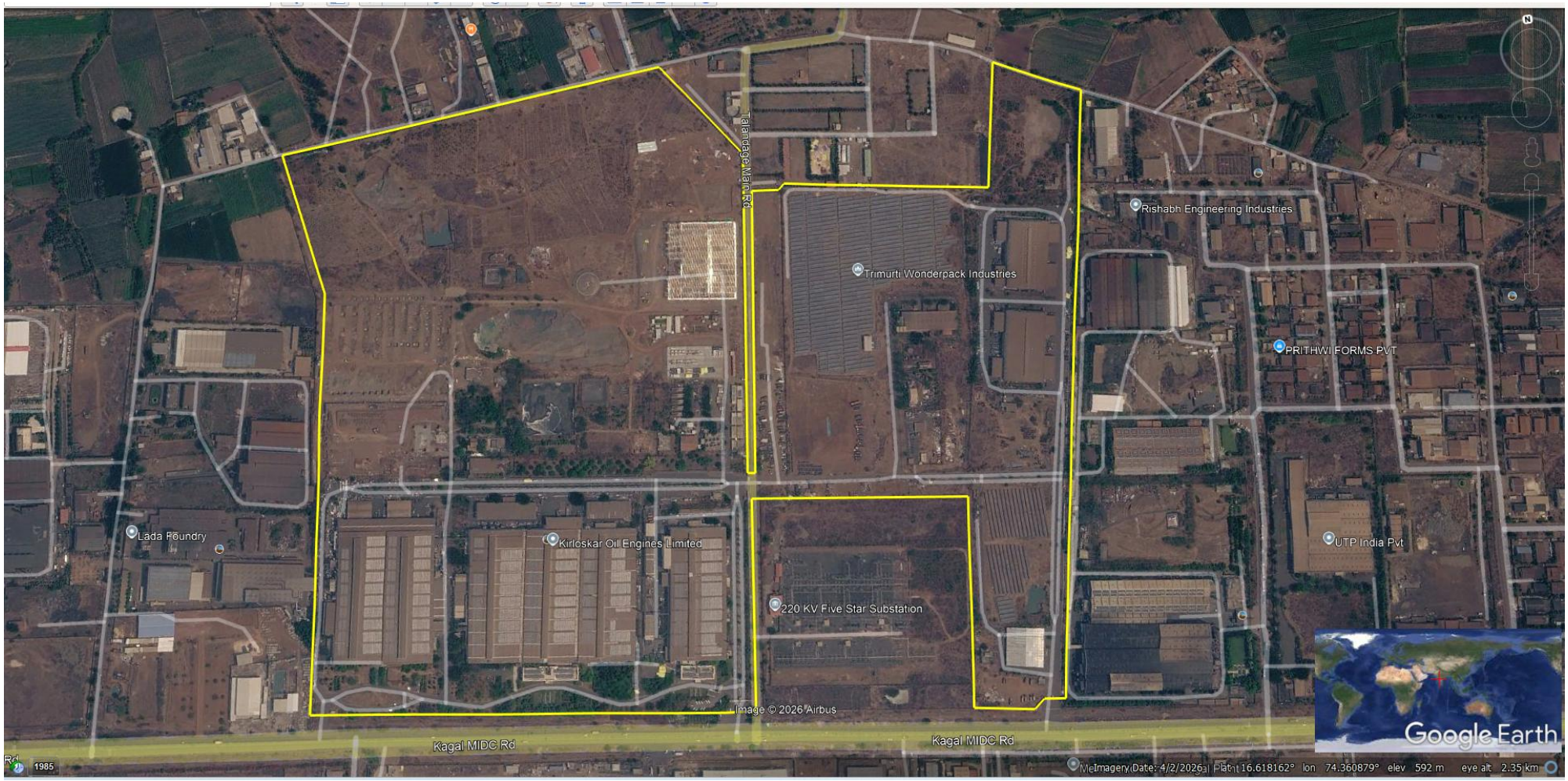
23.	Project proponent shall ensure completion of STP, MSW disposal facility, green belt development prior to occupation of the buildings. As agreed during the SEIAA meeting, PP to explore possibility of utilizing excess treated water in the adjacent area for gardening before discharging it into sewer line No physical occupation or allotment will be given unless all above said environmental infrastructure is installed and made functional including water requirement.	This condition will comply during operation phase. Presently project is under construction phase
24.	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	This condition will comply during operation phase. Presently project is under construction phase
25.	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.	This condition will comply during operation phase. Presently project is under construction phase
26.	PP to provide adequate electric charging points for electric vehicles (EVs).	This condition will comply during operation phase. Presently project is under construction phase
27.	Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/Agriculture Dept.	This condition will comply during operation phase. Presently project is under construction phase
28.	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	This condition will comply during operation phase. Presently project is under construction phase
29.	Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise breaksup. These cost shall be included as part of the	This condition will comply during operation phase. Presently project is under construction phase. Separate budgetary provisions have been allocated for implementation of environmental management measures as part of the overall

	project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes.	project cost. The Project Currently under Construction Phase. For EMP purpose in operation phase budgetary provision Capital Cost – Rs. 3,21,50,000 O & M Cost – Rs. 32,36,000 / year
30.	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	The advertisement has been published in Marathi language in Punya Nagri newspaper and in English language in Times Nation newspaper, both dated 8th November 2025. Refer **Annexure 19 - EC Advertisement**.
31.	A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom suggestions/representations, if any. were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	The clearance letter published on company website. https://www.kirloskaroilengines.com
32.	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. SO2, NOx (ambient levels as well as stack emissions) or critical sector parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Status of compliance of the stipulated EC conditions, including results of monitored data on company website https://www.kirloskaroilengines.com/

33.	PP has to strictly abide by the conditions stipulated by SEAC& SEIAA.	We hereby undertake that all Environmental Clearance (EC) conditions, applicable during both the construction and operation phases, shall be complied with scrupulously.
34.	If applicable Consent for Establishment" shall be obtained from Maharashtra Pollution Control Board under Air and Water Act and a copy shall be submitted to the Environment department before start of any construction work at the site.	We had obtained the Consent to Establish (CTE) from the Maharashtra Pollution Control Board under the Air and Water Acts with vide no. Format1.0/CAC/UAN No.0000227209/CE/2503002982 dated 20/03/2025 **Annexure 14 – Granted CTE Copy**
35.	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.	After obtaining EC, construction work was initiated. We have obtained EC for the Proposed project with EC Identification No. EC25B3813MH5357324N and EC File No: SIA/MH/INFRA2/536493/2025 dated 4th November, 2025. Proposed Expansion Construction was started 15th November 2025 **Annexure 15: Environmental Clearance Letter** **Annexure 16 : Google Imagery Showing No Construction initiated on site prior to EC**
36.	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.	Latest Six Monthly Compliance Report Submitted to Regional Office of MoEFCC-Nagpur on 1st June 2026 **Annexure 17- Acknowledgement copy of post EC submission**
37.	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.	The Project Currently under Construction Phase. FormV for proposed expansion will submit during Operational Phase of the Project. Six Monthly Compliance Report is updated on company website. https://www.kirloskaroilengines.com/ **Annexure 17- Acknowledgement copy of post EC submission**
38.	No further Expansion or modifications, other than mentioned in the EIA Notification, 2006 and its	The construction work of the project is presently being carried out strictly in accordance with the Environmental Clearance (EC) granted by SEIAA. We hereby undertake that no expansion,

	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.	alteration, modification, or change in the project scope covered under the granted EC shall be undertaken without obtaining prior Environmental Clearance from SEIAA, wherever applicable, in accordance with the applicable statutory provisions.
39.	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.	Not Applicable. On Survey of India Toposheet Map project location is marked and it has been observed within 5KM radius no notified Forestry & Wild life ecosensitive area observed hence No NoC from National Board for Wild life is applicable. **Annexure 18 – 5KM Area marked on SOI Toposheet MAP**

Google Imagery of the Project Site



ANNEXURE 1

FSI DETAILS

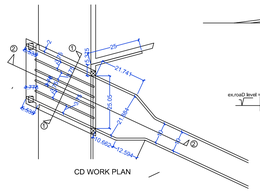
2 - INDEX	BASIC FSI	PREMIUM FSI/ADDIT-IONAL FSI	TOTAL IN -SITU/TDR	INCENTIVE FSI	RESI ANCIL-LARY AREA	NON RESI ANCIL-LARY AREA	TOTAL	INCLUSIVE HOUSING (20%) IF APPLICABLE	DRAWING VALUE
2.1 - PERMISSIBLE INDEX	1.00	2.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00
2.2 - EXISTING CONSUMED INDEX	0.35	0.00	0.00	0.00	0.00	0.00	0.35	00.00	0.00
2.3 - BALANCE INDEX TO BE CONSUME	0.65	2.00	0.00	0.00	0.00	0.00	2.65	00.00	0.00
2.4 - TOTAL PERMISSIBLE PLINE AREA	618213.78	1301800.00	0.00	123642.76	0.00	1536011.02	3456024.80	00.00	0.00
TOTAL PERMISSIBLE FOR REDEVELOPMENT AREA (PLINE AREA)	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00
2.5 - PROPOSED PLINE AREA (SHOULD NOT EXCEED 2.4)	-17851.72	0.00	65372.44	0.00	0.00	0.00	47520.64	00.00	47520.64
2.6 - INDEX CONSUMED	0.08	0.00	0.10	0.00	0.00	0.00	0.00	00.00	0.00

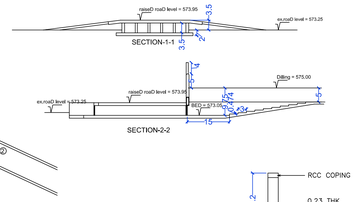
BUILDING WISE FSI STATEMENT

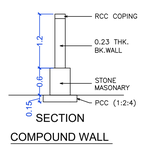
BUILDING	FSI AREA RESI	FSI AREA NON RESI	BALC	PASS	STAIR	LIFT	TENE
5-1 (SECURI...)	0.00	85.62	0.00	0.00	0.00	0.00	0
A-1 (PRO.WORK)	0.00	144.74	0.00	0.00	0.00	0.00	0
B-1 (F 46 S...)	0.00	46.35	0.00	0.00	40.04	0.00	0
C-1 (DG ROOM)	0.00	125.40	0.00	0.00	0.00	0.00	0
C1-1 (COLLI...)	0.00	25.46	0.00	0.00	0.00	0.00	0
C2-1 (COOLI...)	0.00	40.00	0.00	0.00	0.00	0.00	0
C3-1 (COOLI...)	0.00	25.46	0.00	0.00	0.00	0.00	0
F21-1 (FG W...)	0.00	13233.92	0.00	0.00	0.00	0.00	0
F22-1 (RM W...)	0.00	14195.53	0.00	0.00	0.00	0.00	0
F23-1 (HHP ...)	0.00	19469.83	0.00	0.00	0.00	0.00	0
F25-1 (SCRA...)	0.00	98.32	0.00	0.00	0.00	0.00	0
Total	0.00	47520.64	0.00	0.00	40.04	0.00	0

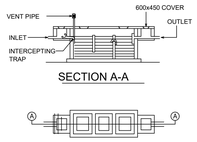
WATER REQUIREMENT

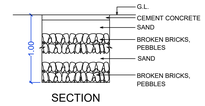
REQD CAPACITY(LIT)	PROP CAPACITY(LIT)
-NA-	400000.00

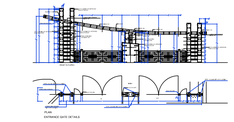


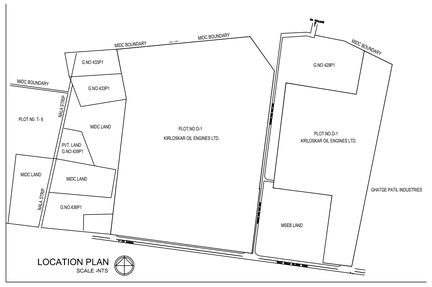


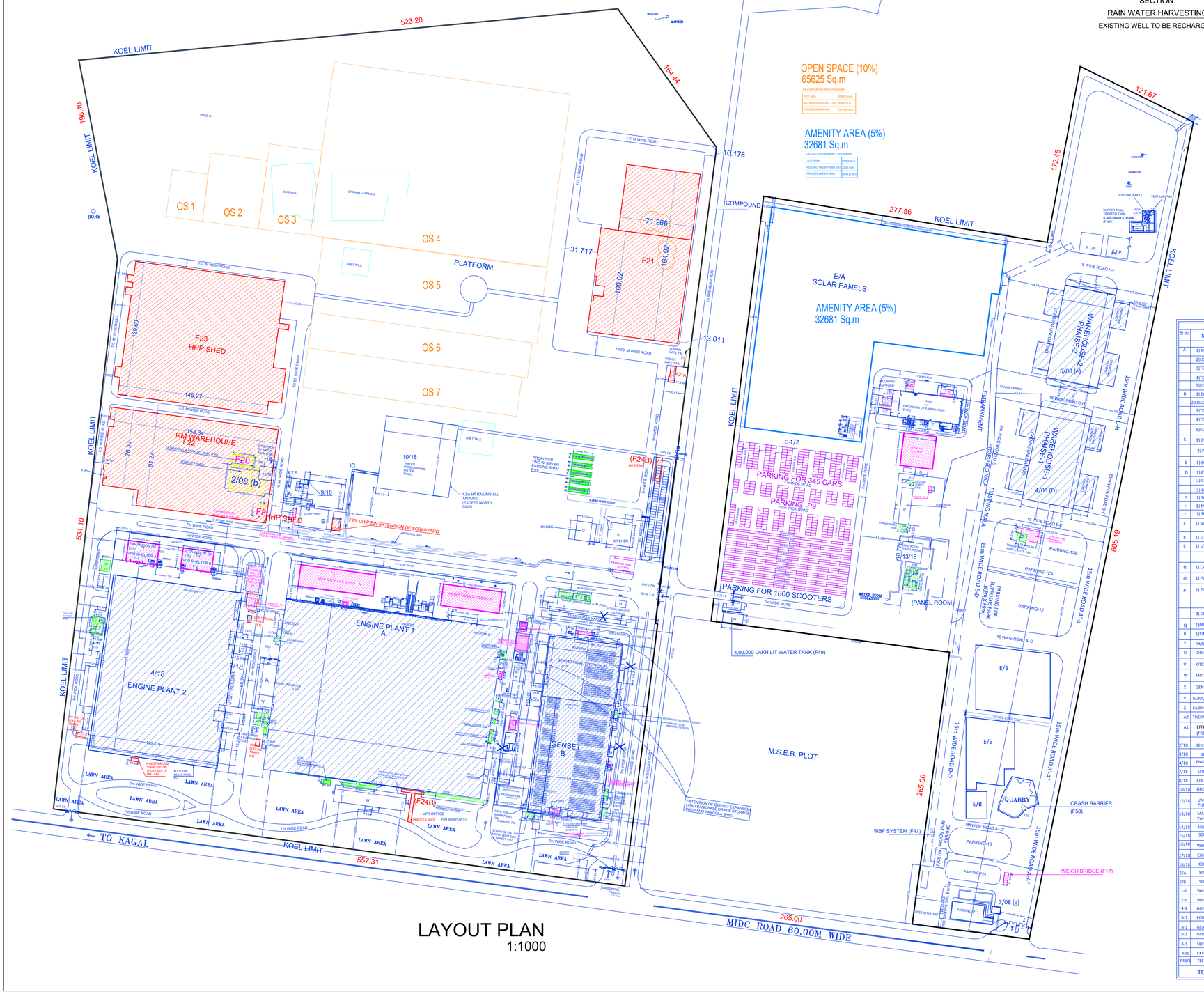












LAYOUT PLAN
1:1000

EXISTING BUILT UP AREA STATEMENT AS PER B.C.C.

Sr.No.	NAME OF STRUCTURE	TOTAL AREA(Sq.M)
A	1) MAIN PLANT	52967.34
	2)LODING/UNLODING PLATFORM	1068.75
	3)TOILET BLOCK(EAST & WEST)	116.16
	4)TOILET BLOCK(EAST & WEST)	77.88
	5)COOLENT PREPARATION	675
B	1) EOU PLANT BUILDING	10918.21
	2)LOADING/UNLOADING PLATFORM	106.87
	3)TOILET BLOCK(EAST & WEST)	74.16
	4)TOILET BLOCK(EAST & WEST)	56.31
	5)COOLENT PREPARATION	59.74
C	1) OFFICE BUILDING	1200.00
	2) PORCH	26.75
E	1) SCRAP YARD (MP-1)	610.08
D	1) ETP	56.63
	2) CHEMICAL STORE	9.75
	3) TOILET BLOCK	4.08
G	1) SCRAP SHAD (CHIP BIN)	47.30
H	1) MATERIAL GATE SECURITY ROOM	64.89
I	1) SECURITY - EOU	12.95
J	1) MAIN SECURITY	47.38 10.50
K	1) UTILITY BUILDING MP-1	440.64
L	1) UTILITY BUILDING EOU	279.72
N	1) CPCP	2699.60
O	1) PUMP HOUSE	112.56
P	1) POWER HOUSE	434.29 33.84
	2) CHIMENY HOUSE	12.00
Q	1)METER ROOM	30.25
R	1)TIME OFFICE	119.44
T	PARKING SHED	444.29
U	DINING	352.47
V	KITCHEN	471.65
W	MP-1 OFFICE (ADMIN BUILDING II)	2267.44
X	GENSET UTILITY SHED EXTENTION	57.46
Y	PAINT,THINNER STORE ELECTRIC STORE	389.03
Z	FABRICATION SHED	116.43
A2	THERMIC FLUID HEATER EXTEN.	32.48
A1	EFFLUENT TREATMENT PLANT (FREE OF FSI)	9.75
2/18	GENSET PLANT EXPANSION	6937.04
3/18	LPG SHED	207.69
4/18	ENGINE PLANT 2	36028.04
7/18	UTILITY BUILDING	811.65
8/18	COOLANT PREPARATION SHED	239.85
10/18	GROUND WATER TANK	4900.00
12/18	UNDER GROUND WATER TANK & PUMP ROOM	162.26
13/18	MAIN RECEVING STATION (MRS) PANEL ROOM	162.44
14/18	AHU STRUCTURES	442.00
15/18	SCRAP YARD	331.93
16/18	WELD SHOP (CPCP)	187.41
17/18	CHIMNEY FOUNDATIONS	72.27
18/18	COOLING TOWER	8.41
E/A	SOLAR INSTALLATION - 1	35656.53
E/B	SOLAR INSTALLATION - 2	7852.56
1-1	WH-1	16031.78
2-1	WH-2	15958.76
4-1	DRIVER'S REST ROOM	177.55
A-1	FORK LIFT SHED	927.87
A-1	GENSET	521.55
A-1	PARGOLA SHED	93.62
A-1	SECURITY CABIN	51.71
F21	EXTENSION OF EP-1 ON NORTH SIDE	133.16
F48/4	TEST LAB IN ETP SYSTEM	27.54
	TOTAL EXISTING B.C.C AREA	204063.86

AREA STATEMENT FOR DEMOLITION STRUCTURES

SR.NO.	NAME OF THE STRUCTURE	TOTAL AREA SQ. MT.
G	1) SCRAP SHAD (CHIP BIN)	47.30
A-1	FORK LIFT SHED	927.87
F20	EXTENSION OF FORKLIFT SHED	323.95
F8	EXTENSION OF CHIP BIN SHED	51.04
	TOTAL AREA	1350.16
NET EXISTING AREA = EXISTING AREA - DEMOLITION AREA		202713.70

AREA STATEMENT FOR PREVIOUS APPROVED STRUCTURES AS PER LETTER NO. E11067 DATED ON 13/12/2022

SR.NO.	NAME OF THE STRUCTURE	TOTAL AREA SQ. MT.
F0	WAREHOUSE UTILITY BUILDING	209.07
F1	EXTENSION -A OF SKID SHELTER	595.09
F2	EXTENSION - B OF SKID SHELTER	595.09
F3	NEW STORAGE SHED - A	2278.38
F4	NEW STORAGE SHED - B	1769.46
F5	TOILET BLOCK NEAR POWER HOUSE	12.00
F6	HSD STORAGE TANK YARD ON NORTH-EAST SIDE OF EP2	355.60
F7	LUBE OIL STORAGE YARD ON NORTH-EAST SIDE OF EP2	155.47
F8	EXTENSION OF CHIP BIN SHED	51.04
F9	COOLANT STORAGE TANK ON EAST SIDE OF GENSET	22.42
F10	COMPRESSOR SHED	180.38
F11	LOCKER ROOM ABOVE GENSET TOILET	24.00
F12	EXTENSION OF SCRAP YARD SHED	29.45
F13	LUBE OIL STORAGE YARD ON EAST SIDE OF EP-1	20.62
F14	LUBE OIL STORAGE YARD ON NORTH-WEST SIDE OF GENSET	60.84
F15	HSD STORAGE TANK YARD ON WEST SIDE OF GENSET	62.73
F16	EXPANSION OF FABRICATION SHED SHED	192.48
F17	WEIGH BRIDGE FOR WAREHOUSE	29.31
F18	LUBE OIL STORAGE YARD ON NORTH SIDE OF EP-1	20.91
F19	EXTENSION OF GENSET ON NORTH SIDE	72.20
F20	EXTENSION OF FORKLIFT SHED	317.65
F1/1	FUEL YARD-SF HFO & HSD NEAR POWER HOUSE	1082.03
	TOTAL AREA	8056.22

AREA STATEMENT FOR PROPOSED STRUCTURES

F21	FG WAREHOUSE	**13,233.92**
F21A	SECURITY & TRUCK DRIVER ROOM	**85.62**
F22	RM WAREHOUSE	**14,195.53**
F23	HHP SHED	**19,499.83**
F24B	LOUNGE	27.50
	GENSET	27.50
	MICROGRID PANNEL ROOM	27.50
	PANTRY	15.40
	RECEPTION	27.50
F25	CHIP BIN	98.32
F46	MS STAIRCASE NEAR MP1	46.35
C1	COOLING TOWER SL 90 AT EP2	25.46
C2	DV TEST CELLS COOLING TOWER AT EP2	40.00
C3	RS50 COOLING TOWER AT EP1	25.46
F24A	PERGOLA SHED	144.74
	TOTAL PROPOSED AREA	**47520.64**
	TOTAL AREA = NET EXISTING AREA + PREVIOUS APPROVED AREA + PROPOSED AREA	258290.64

PROJECT TYPE - Building Development

SEAL OF APPROVAL

No.DB/KH/FS/ D-1 / DIS / 105894 / of 2025
Date : 21 / 04 / 2025.

IRAPPA ANNAPPA NAIK

Digitally signed by IRAPPA ANNAPPA NAIK
DN: c=IN, o=Personal, title=3301, pe=Maharashtra, street=Flat no 101, Shriram Heights, 2nd Floor,Plot no 9, postalCode=416416, 2.5.4.20=3b2f13f1737f4ba5e09e6f77d4d5, 0.9.2342.19200300.100.1.1=irappa.naik@gmail.com
Date: 2025.04.21 14:22:22 +05'30'

SPA/Executive Engineer
M.I.D.C. Division, Kolhapur.

HIGH RISK

PROJECT INFORMATION

CASE TYPE	Addition or Extension
LOCATION	Non-Congested Area
PLOT USE	Industrial Buildings
PLOT SUB USE	Service Industries

AREA STATEMENT

	SQ. M.
1. AREA OF PLOT (Minimum area of a, b, c to be considered excluding NIP)	650900.00
(a) As per ownership document (7/12, CTS extract)	0.00
(b) as per measurement sheet	650900.00
(c) as per site	0.00
2. DEDUCTIONS FOR	
(a) Proposed D.P./ D.P. RW Area/Service Road /Highway	0.00
(b) Any D.P. Reservation area	0.00
(Total a+b)	0.00
3. BALANCE PLOT AREA (1 - 2)	650900.00
4. AMENITY SPACE (If applicable)	
(a) Required -	32545.00
(b) Adjustment of 2(b), if any -	000.00
(c) Balance Proposed -	32686.22
5. NET PLOT AREA (3-4(c))	618213.78
6. RECREATIONAL OPEN SPACE (If applicable)	
(a) Required -	65090.00
(b) Proposed -	65530.75
7. INTERNAL ROAD AREA	000.00
8. PLOTABLE AREA (if applicable)	000.00
9. BUILT UP AREA WITH REF. TO BASE F.S.I. AS PER FRONT ROAD WIDTH (Sr.no.5 x Base FSI)	618213.78
10. ADDITION OF FSI ON PAYMENT OF PREMIUM	
(a)Maximum permissible premium FSI - based on road width / TOD Zone.	1301800.00
(b) Proposed FSI on payment of premium.	0.00
11. IN-SITU AND TDR LOADING	
(a)In-situ area against D.P. road [2.0 x Sr. No. 2 (a)],if any	0.00
(b) In-situ area against Amenity Space if handed over [2.00 or1.85 x Sr. No. 4 (b)and /or(c)],	000.00
(c)TDR area	0.00
(d) Total in-situ / TDR loading proposed (11 (a)+(b)+(c))	65372.44
12. ADDITIONAL FSI AREA UNDER CHAPTER No. 7	
13. TOTAL ENTITLEMENT OF FSI	
(a) [9 + 10(b)+11(d)] or 12 whichever is applicable	1985386.22
(b) Ancillary FSI (upto 60%or80% with payment of charges)	1536011.02
(c) Total entitlement (a+b)	3456024.80
14. MAXIMUM UTILIZATION LIMIT OF F.S.I (Building Potential) Permissible As Per Road Width ((Reg. No. 6.1 or 6.2 or 6.3 or 6.4 as applicable)x1.6 or 1.8)	3456024.80
15. TOTAL BUILT-UP AREA IN PROPOSAL (excluding area at sr.no.17 b)	
(a) Demolished Area.	1350.16
(b) Existing Built-up Area (Net existing area + Previous approved area)	210769.92
(c) Proposed Built-up Area (as per 'P-line')	47520.64
(c) Total (b+c)	258290.64
16. F.S.I. CONSUMED (15/13) should not be more than serial No.14 above.)	0.43
17. AREA FOR INCLUSIVE HOUSING, if any	
(a) Required (20% of Sr.No.5)	000.00
(b) Proposed	000.00

CERTIFICATE OF AREA

CERTIFIED THAT THE PLOT UNDER REF. WAS SURVEYED ME & THE DIMENSIONS OF THE SIDES, ETC. STATED ON THE PLAN ARE AS MEASURED ON THE SITE AND THE AREA SO WORKED OUT TALLIES WITH THE AREA STATED IN THE DOCUMENT OF CITY SURVEY / TP RECORDS.

LEGEND

- PLOT BOUNDARY SHOWN THICK BLACK
- PROPOSED WORK SHOWN RED FILLED IN
- DRAINAGE LINE SHOWN RED DOTTED
- WATERLINE SHOWN BLUE DOTTED
- EXISTING TO BE RETAINED HATCHED
- DEMOLISHION SHOWN HATCHED YELLOW

OWNERS NAME & SIGN	ARCH.NAME,SIGN & ADD
Vivek Mukund Deshpande	Sachin Prabhat Mujumdar

PROJECT INFORMATION

PLOT NO	: D-1		
USE	: Industrial Buildings		
SUBUSE	: Service Industries		
NODE	: CTS/CS		
SECTOR NO	:		
PLOT ADDRESS	: CTS/CS:,Block No:,,Plot No:D-1,		
Road/Street:			
PERMIT NO			
INWARD NO	SWC/#1/521/2025113/1027055		
KEY NO	2658	SCALE	1:100
DATE	12-03-2025	SHEET NO	1 / 6

FLOOR WISE FSI STATEMENT: F21 (FG WAREHOUSE)							
BUILDING	FSI AREA		BALC	PASS	STAIR	LIFT	TENE
	RESI	NON RESI					
GROUND FLOOR	0.00	13233.92	0.00	0.00	0.00	0.00	0
Total	0.00	13233.92	0.00	0.00	0.00	0.00	0

PROJECT TYPE - Building Development

SEAL OF APPROVAL

No.DB/KHFS/ D-1 / DIS / 105894 / of 2025
Date : 21 / 04 / 2025.

IRAPPA ANNAPPA NAIK

SPA/Executive Engineer
M.I.D.C. Division, Kolhapur.

Digitally signed by IRAPPA ANNAPPA NAIK
DN: c=IN, o=Personal, postalCode=416001, st=MAHARASHTRA, 2.5.4.20=a1e2f1c1f6ccdcb2301f1fc4ca1e5f1c7c5fccdcb2301f1fc4ca1e5f1c7c5fc, serialNumber=9b0d2c7c7f5ccdcb2301f1fc4ca1e5f1c7c5fccdcb2301f1fc4ca1e5f1c7c5fc, cn=IRAPPA ANNAPPA NAIK
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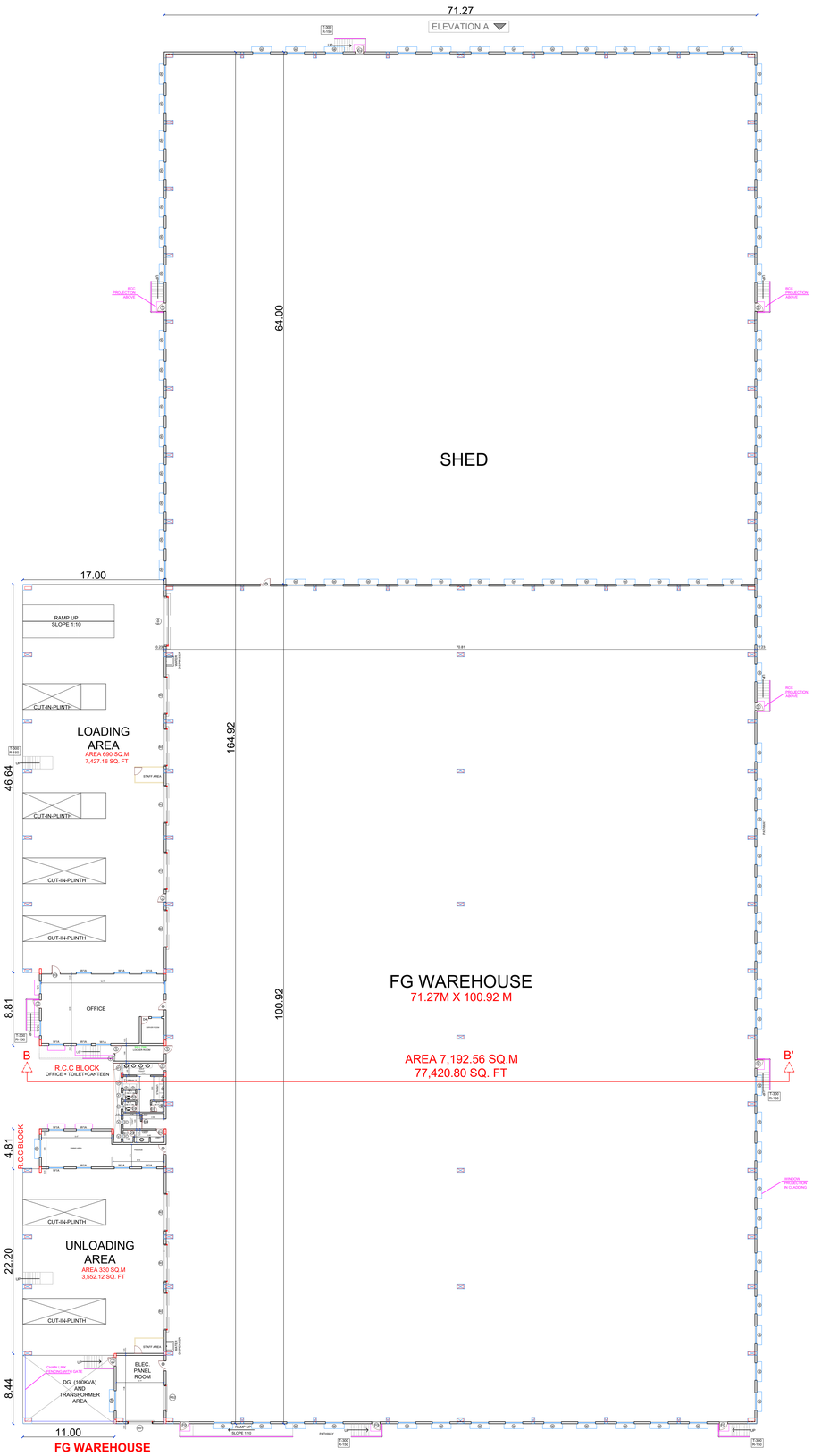
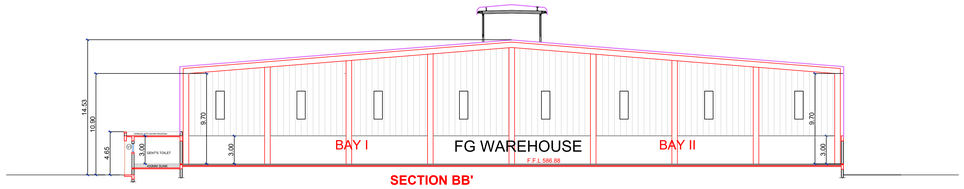
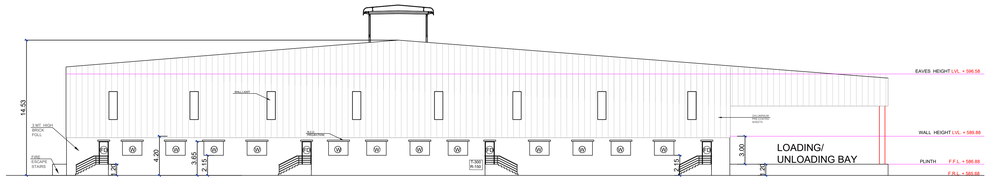
HIGH RISK



FG WAREHOUSE PLAN



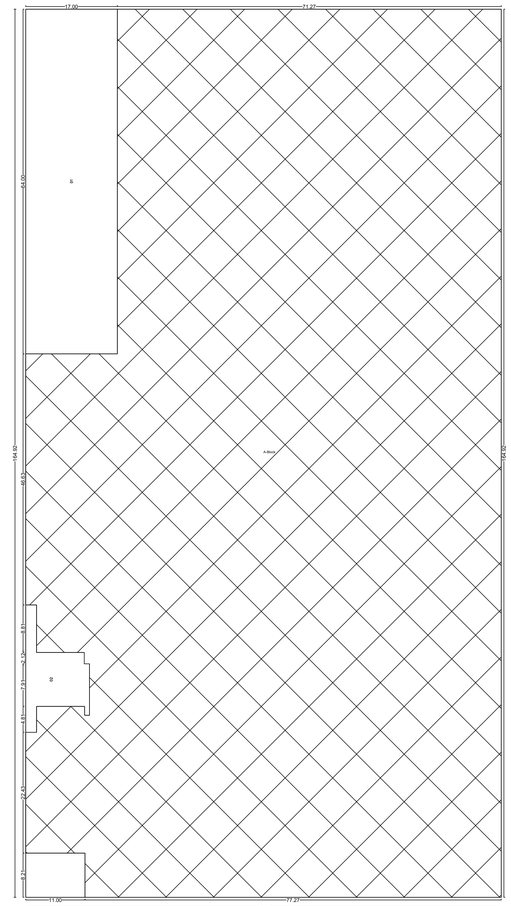
SECTION BB'



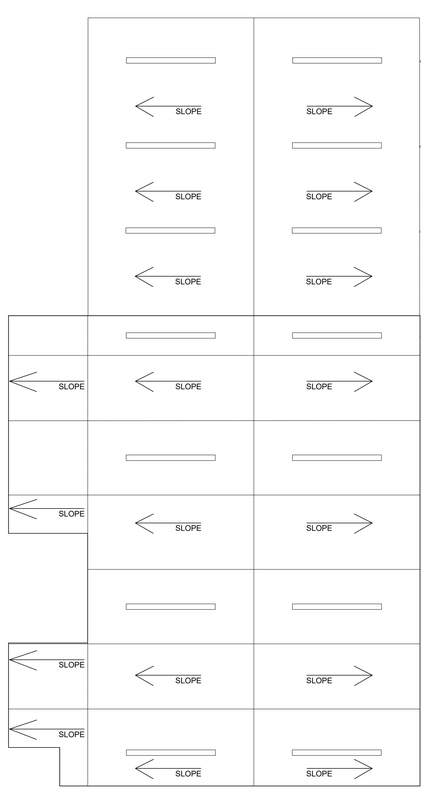
ELEVATION B

DOOR WINDOW SCHEDULE & AREA STATEMENT FOR FG WAREHOUSE					
ROLLING SHUTTER					
NAME	SIZE	CILL	LINTEL	DESCRIPTION	LOCATION
RS	4.50X4.50	- - -		MOTORIZED ROLLING SHUTTER PERFORATED/WITH LOUVERS	SHED
RS2	3.00 X 3.00	- - -		MOTORIZED ROLLING SHUTTER PERFORATED	SHED
					ELECTRICAL PANEL ROOM
RS3	6.00 X 6.00	- - -		MOTORIZED ROLLING SHUTTER PERFORATED	SHED
WINDOW SCHEDULE					
NAME	SIZE	CILL	LINTEL	DESCRIPTION	LOCATION
W	2.10 X1.65	0.95	2.45	TWO TRACK ALUMINUM WINDOW WITH FIXED MESH	SHED
W1A	1.80 X1.65	0.95	2.45	TWO TRACK ALUMINUM WINDOW WITH FIXED MESH	OFFICE
W2A	1.50 X1.65	0.95	2.45	TWO TRACK ALUMINUM WINDOW WITH FIXED MESH	ELECTRICAL PANEL ROOM & OFFICE
V	0.60 X0.90	1.20	2.10	LOUVERED ALUMINUM WINDOW	TOILET
V1	1.20 X0.60	1.20	2.10	LOUVERED ALUMINUM WINDOW	TOILET
DOOR SCHEDULE					
NAME	SIZE	CILL	LINTEL	DESCRIPTION	LOCATION
FD	1.20X2.40	- - -	2.40	FIRE RATED DOOR	SHED & OFFICE
D	1.20X2.40	- - -	2.40	METAL DOOR UNEQUAL	OFFICE
D1	0.90X2.40	- - -	2.40	METAL DOOR	OFFICE
D2	1.00X2.40	- - -	2.40	SOLID FLUSH CORE SHUTTER	TOILET
D3	0.75X2.10	- - -	2.10	SOLID FLUSH CORE SHUTTER	TOILET
SD	1.20X2.40	- - -	2.40	SOLID FLUSH CORE SLIDING DOOR	TOILET
D4	1.20X2.40	- - -	2.40	DOOR IN CHAIN LINK EQUAL	SCRAPYARD

GROUND FLOOR PLAN



FG WAREHOUSE ROOF PLAN 1:200



Polygon	Area
A-Block	14557.52
01	1088.02
02	235.59
Total	13233.92

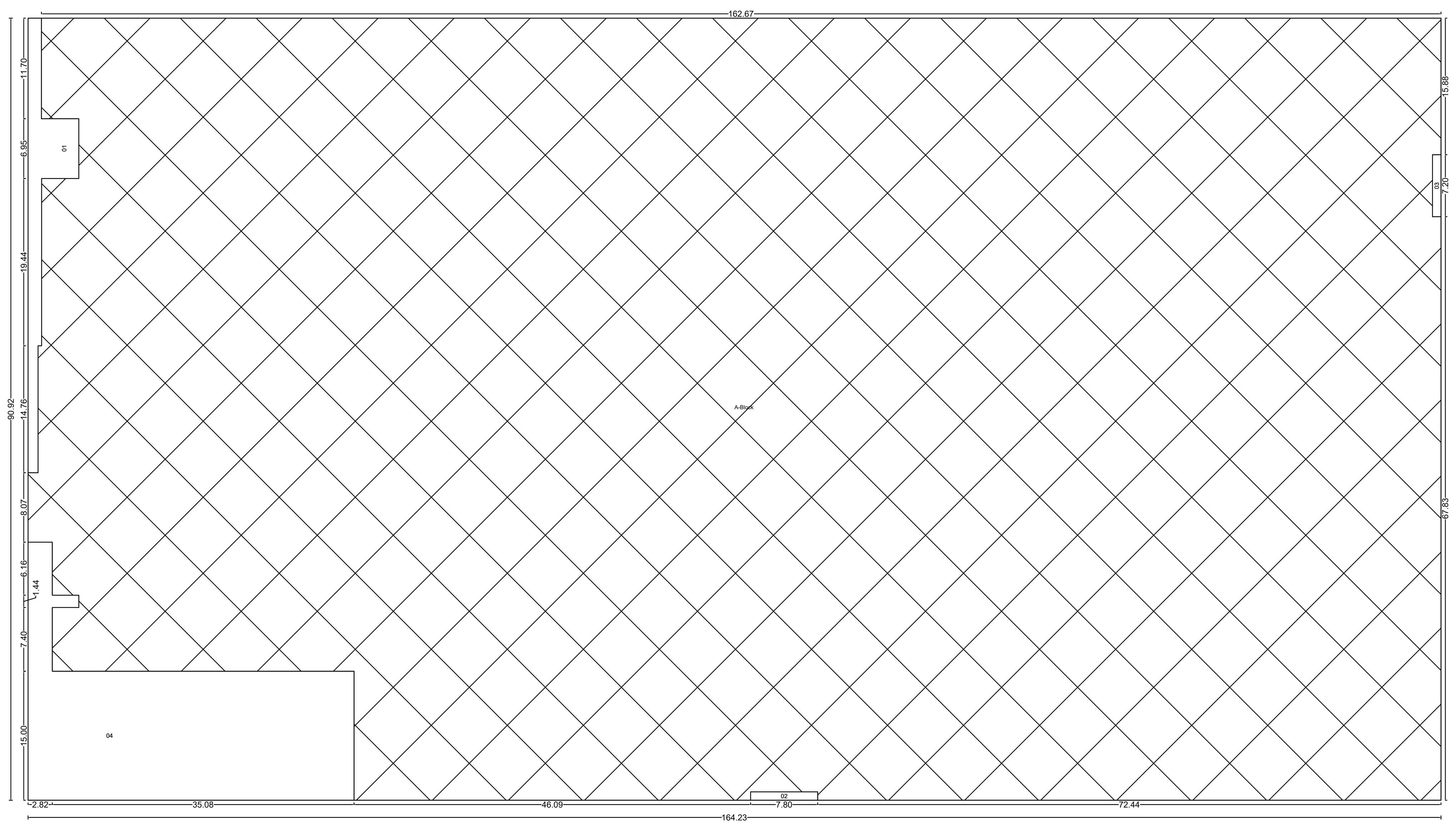
OWNERS NAME & SIGN	ARCH.NAME,SIGN & ADD
Vivek Mukund Deshpande	Sachin Prabhat Mujumdar

PROJECT INFORMATION	
PLOT NO	: D-1
USE	: Industrial Buildings
SUBUSE	: Service Industries
NODE	: CTS/CS
SECTOR NO	:
PLOT ADDRESS	: CTS/CS:,Block No:,, Plot No:D-1,
Road/Street:	

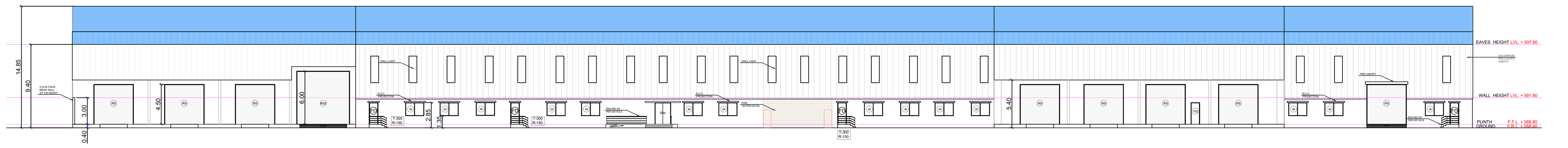
PERMIT NO				
INWARD NO	SWC/91/521/202 50113/10270S5			
KEY NO	2658	SCALE	1:100	
DATE	12-03-2025	SHEET NO	2 / 6	

FLOOR WISE FSI STATEMENT: F22 (RM WAREHOUSE)							
BUILDING	FSI AREA		BALC	PASS	STAIR	LIFT	TENE
	RESI	NON RESI					
GROUND FLOOR	0.00	14195.53	0.00	0.00	0.00	0.00	0
Total	0.00	14195.53	0.00	0.00	0.00	0.00	0

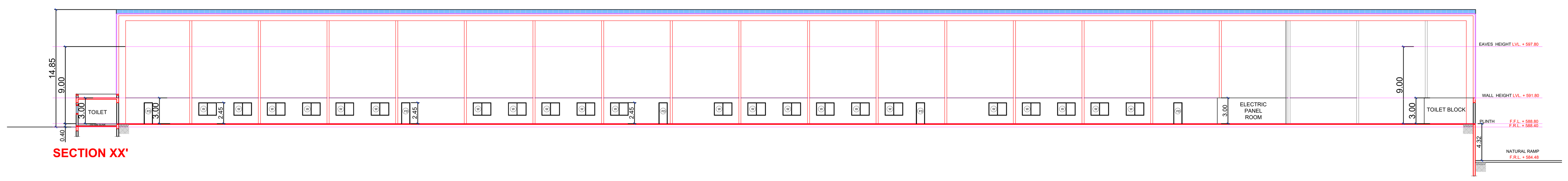
GROUND FLOOR PLAN



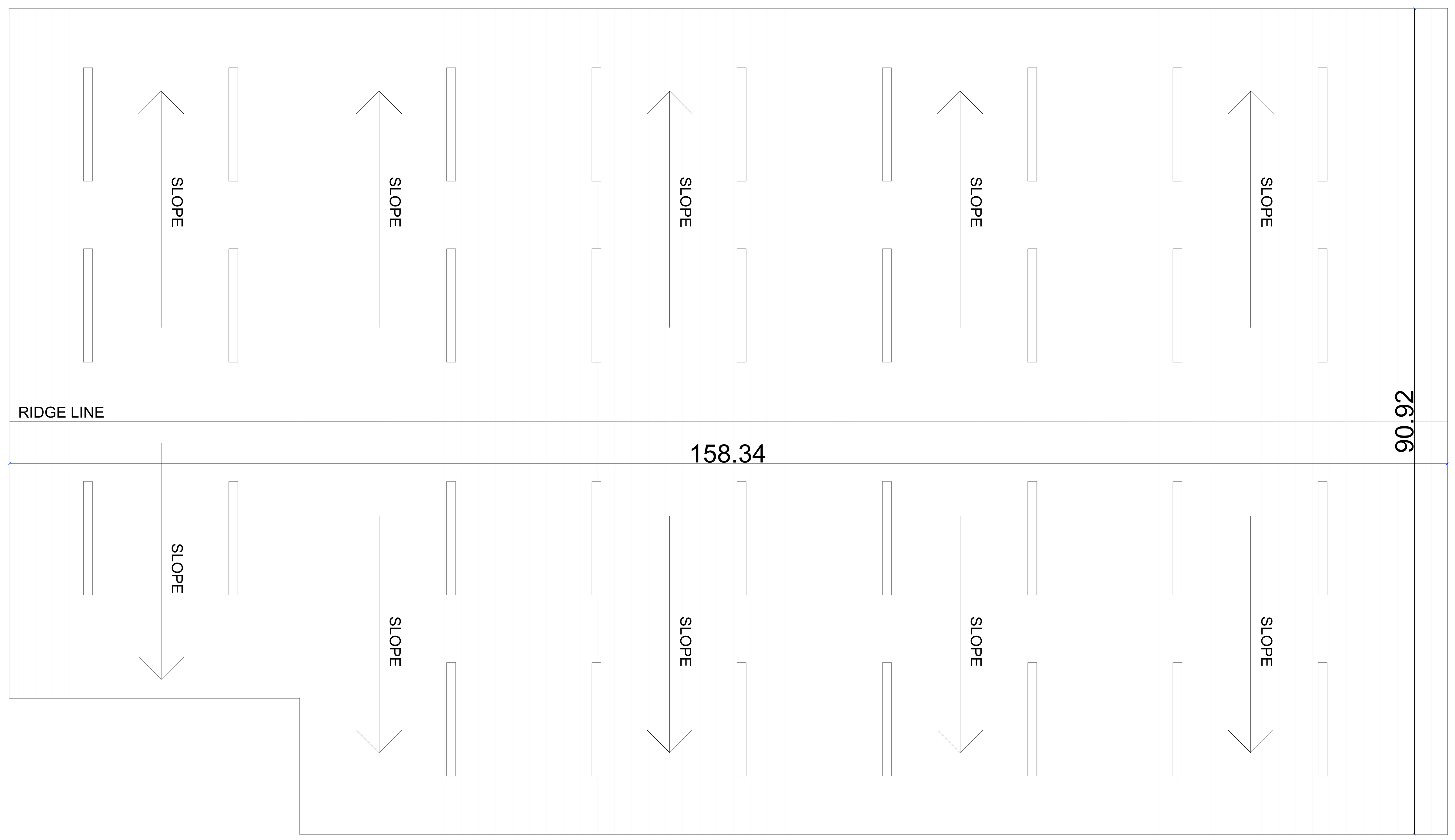
Polygon	Area
A-Block	14932.19
01	106.91
02	7.61
03	7.06
04	615.09
Total	14195.53



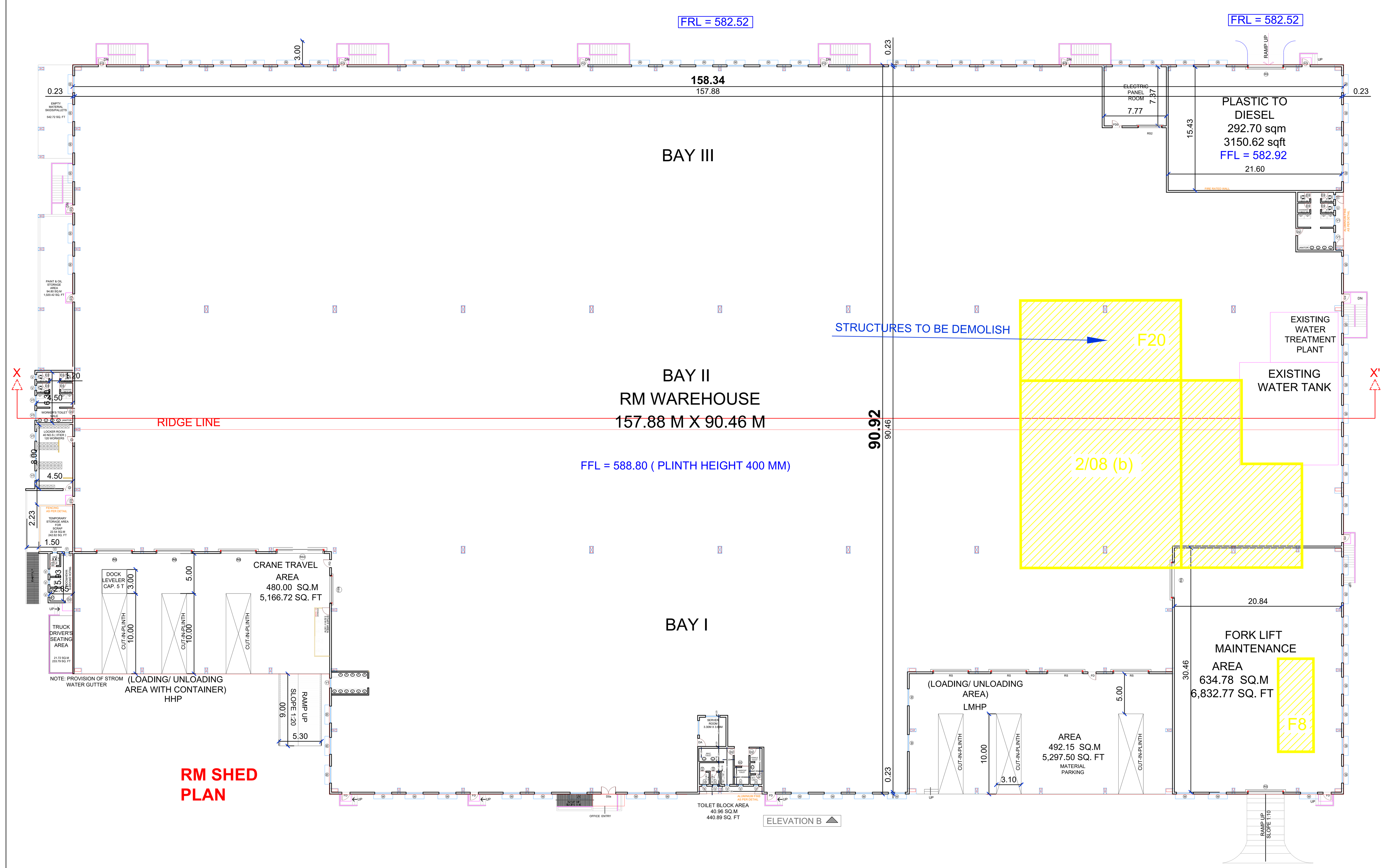
ELEVATION B



SECTION XX'



RM WAREHOUSE ROOF PLAN



RM SHED PLAN

DOOR WINDOW SCHEDULE & AREA STATEMENT FOR RM WAREHOUSE

ROLLING SHUTTER

NAME	SIZE	CILL	LINTEL	DESCRIPTION	LOCATION
RS	4.50X4.50	- - -		MOTORIZED ROLLING SHUTTER PERFORATED/WITH LOUVERS	SHED
RS2	3.00 X 3.00	- - -		MOTORIZED ROLLING SHUTTER PERFORATED	SHED ELECTRICAL PANEL ROOM
RS3	6.00 X 6.00	- - -		MOTORIZED ROLLING SHUTTER PERFORATED	SHED

WINDOW SCHEDULE

NAME	SIZE	CILL	LINTEL	DESCRIPTION	LOCATION
W	2.10 X1.65	0.95	2.45	TWO TRACK ALUMINUM WINDOW WITH FIXED MESH	SHED
W1A	1.80 X1.65	0.95	2.45	TWO TRACK ALUMINUM WINDOW WITH FIXED MESH	OFFICE
W2A	1.50 X1.65	0.95	2.45	TWO TRACK ALUMINUM WINDOW WITH FIXED MESH	ELECTRICAL PANEL ROOM & OFFICE
V	0.60 X0.90	1.20	2.10	LOUVERED ALUMINUM WINDOW	TOILET
V1	1.20 X0.60	1.20	2.10	LOUVERED ALUMINUM WINDOW	TOILET

DOOR SCHEDULE

NAME	SIZE	CILL	LINTEL	DESCRIPTION	LOCATION
FD	1.20X2.40	- - -	2.40	FIRE RATED DOOR	SHED & OFFICE
D	1.20X2.40	- - -	2.40	METAL DOOR UNEQUAL	OFFICE
D1	0.90X2.40	- - -	2.40	METAL DOOR	OFFICE
D2	1.00X2.40	- - -	2.40	SOLID FLUSH CORE SHUTTER	TOILET
D3	0.75X2.10	- - -	2.10	SOLID FLUSH CORE SHUTTER	TOILET
SD	1.20X2.40	- - -	2.40	SOLID FLUSH CORE SLIDING DOOR	TOILET
D4	1.20X2.40	- - -	2.40	DOOR IN CHAIN LINK EQUAL	SCRAPYARD

PROJECT TYPE - Building Development

SEAL OF APPROVAL

No.DB/KH/FS/ D-1 / DIS / 105894 / of 2025
Date : 21 / 04 / 2025.

IRAPPA ANNAPPA NAIK

Digitally signed by IRAPPA ANNAPPA NAIK
DN: c=IN, o=Personal, postalCode=416001, l=Kolhapur, st=Maharashtra, street=Flat no 101, Shriram Heights, First Floor,Plot no 9, Jagdale Colony,R S , Kolhapur, title=9622, 2.5.4.20=30d281581737b0c6639a967196d5025b09d957378bceb6028163916ca16491c6, serialNumber=fced76710ce37bda16caab4c7904dfdf5ff4858bedb88efa170db83ab27c6ed6, email=irappanaik1@gmail.com, cn=IRAPPA ANNAPPA NAIK
Date: 2025.04.21 14:31:45 +05'30'

HIGH RISK

SPA/Executive Engineer
M.I.D.C. Division, Kolhapur.

OWNERS NAME & SIGN	ARCH.NAME,SIGN & ADD
Vivek Mukund Deshpande	Sachin Prabhat Mujumdar

PROJECT INFORMATION

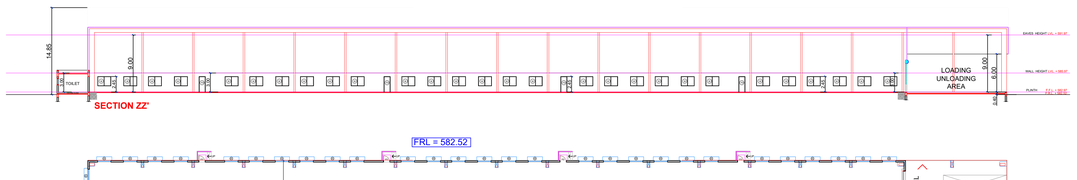
PLOT NO	: D-1
USE	: Industrial Buildings
SUBUSE	: Service Industries
NODE	: CTS/CS
SECTOR NO	:
PLOT ADDRESS	: CTS/CS:,Block No:,,Plot No:D-1,
Road/Street:	

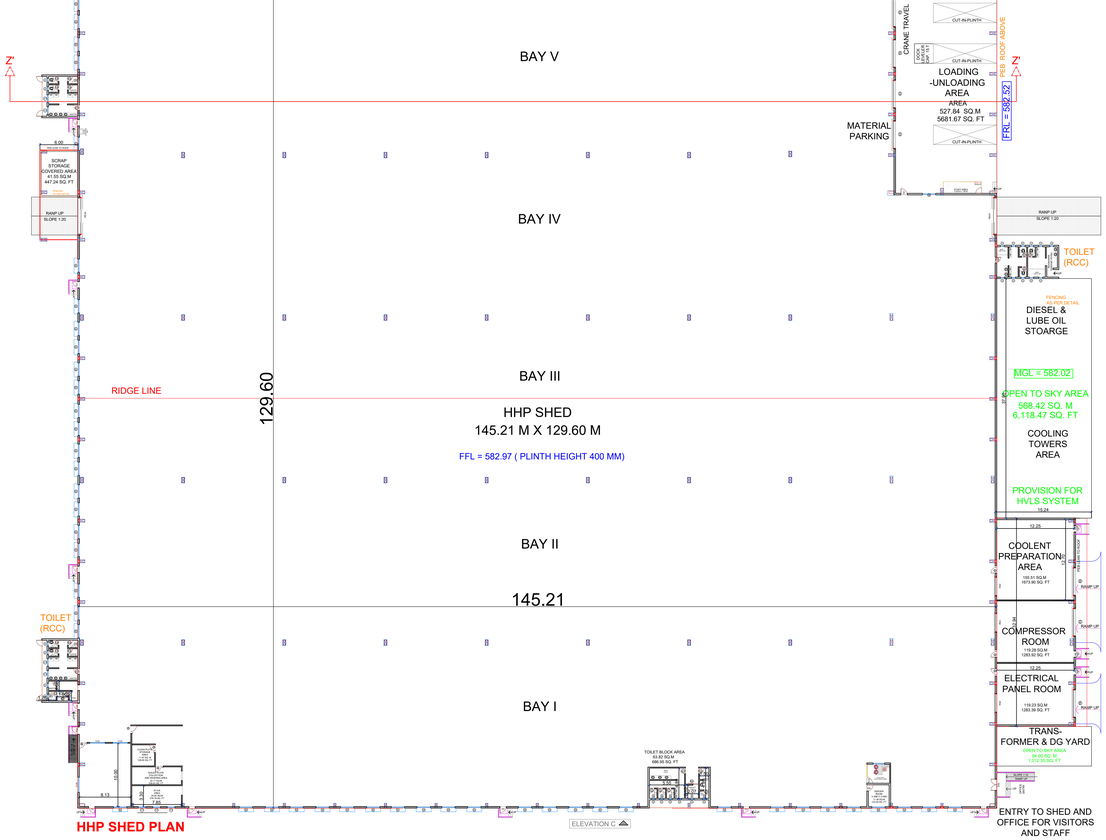
PERMIT NO			
INWARD NO	SWC/91/521/20250113/1027055		
KEY NO	2658	SCALE	1:100
DATE	12-03-2025	SHEET NO	3 / 6

DOOR WINDOW SCHEDULE & AREA STATEMENT FOR HHP WAREHOUSE					
ROLLING SHUTTER					
NAME	SIZE	CILL	LINTEL	DESCRIPTION	LOCATION
RS	4.50X4.50	- - -		MOTORIZED ROLLING SHUTTER PERFORATED/WITH LOUVERS	SHED
RS2	3.00 X 3.00	- - -		MOTORIZED ROLLING SHUTTER PERFORATED	SHED ELECTRICAL PANEL ROOM
RS3	6.00 X 6.00	- - -		MOTORIZED ROLLING SHUTTER PERFORATED	SHED
WINDOW SCHEDULE					
NAME	SIZE	CILL	LINTEL	DESCRIPTION	LOCATION
W	2.10 X1.65	0.95	2.45	TWO TRACK ALUMINUM WINDOW WITH FIXED MESH	SHED
W1A	1.80 X1.65	0.95	2.45	TWO TRACK ALUMINUM WINDOW WITH FIXED MESH	OFFICE
W2A	1.50 X1.65	0.95	2.45	TWO TRACK ALUMINUM WINDOW WITH FIXED MESH	ELECTRICAL PANEL ROOM & OFFICE
V	0.60 X0.90	1.20	2.10	LOUVERED ALUMINUM WINDOW	TOILET
V1	1.20 X0.60	1.20	2.10	LOUVERED ALUMINUM WINDOW	TOILET
DOOR SCHEDULE					
NAME	SIZE	CILL	LINTEL	DESCRIPTION	LOCATION
FD	1.20X2.40	- - -	2.40	FIRE RATED DOOR	SHED & OFFICE
D	1.20X2.40	- - -	2.40	METAL DOOR UNEQUAL	OFFICE
D1	0.90X2.40	- - -	2.40	METAL DOOR	OFFICE
D2	1.00X2.40	- - -	2.40	SOLID FLUSH CORE SHUTTER	TOILET
D3	0.75X2.10	- - -	2.10	SOLID FLUSH CORE SHUTTER	TOILET
SD	1.20X2.40	- - -	2.40	SOLID FLUSH CORE SLIDING DOOR	TOILET
D4	1.20X2.40	- - -	2.40	DOOR IN CHAIN LINK EQUAL	SCRAPYARD

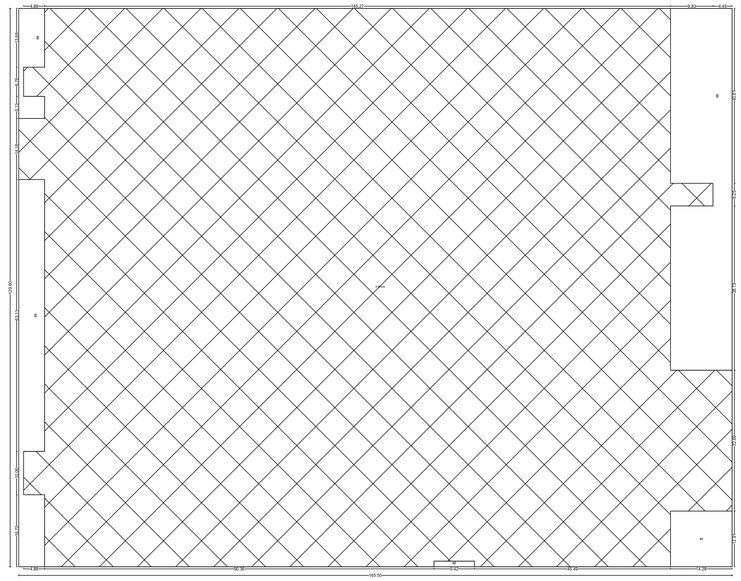
FLOOR WISE FSI STATEMENT: F23 (HHP SHED)

BUILDING	FSI AREA		BALC	PASS	STAIR	LIFT	TENE
	RESI	NON RESI					
GROUND FLOOR	0.00	19499.83	0.00	0.00	0.00	0.00	0
Total	0.00	19499.83	0.00	0.00	0.00	0.00	0





GROUND FLOOR PLAN



Polygon	Area
A-Block	21454.37
01	184.28
02	12.06
03	490.08
04	120.28
05	1147.84
Total	19499.83

HHP SHED
ROOF PLAN

PROJECT TYPE - Building Development

SEAL OF APPROVAL

No.DB/KH/FS/ D-1 / DIS / 105894 / of 2025
Date : 21 /04 / 2025.

IRAPPA ANNAPPA NAIK

Digitally signed by IRAPPA ANNAPPA NAIK
DN: c=IN, o=Personal, postalCode=416301, st=Maharashtra, street=Flat No 102 Shivkrupa Apartment Opp Ganesh Vishnu,PLT, Kolhapur, title=9823, 2.5.4.20=54d3813877b5ab8b39e8677fdd5 8b1b0a1e1ed1e3f1e1ed1e3f1e1ed1e3f1e1ed1e, 2.5.4.65=Maharashtra, 2.5.4.9=Flat No 102 Shivkrupa Apartment Opp Ganesh Vishnu,PLT, Kolhapur, serialNumber=4b4e9f5f3b6b5f5f4c7b4b3b6d2c1de 4b1e9f5f3b6b5f5f4c7b4b3b6d2c1de4b1e9f5f3b6b5f5f4c7b4b3b6d2c1de, cn=IRAPPA ANNAPPA NAIK
Date: 2025.04.21 14:21:36 +05'30'

SPA/Executive Engineer
M.I.D.C. Division, Kolhapur.

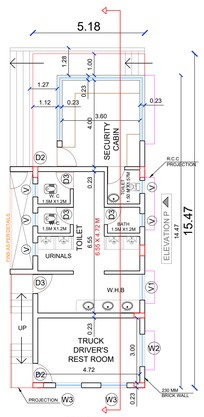
HIGH RISK

OWNERS NAME & SIGN	ARCH.NAME,SIGN & ADD
Vivek Mukund Deshpande	Sachin Prabhat Mujumdar

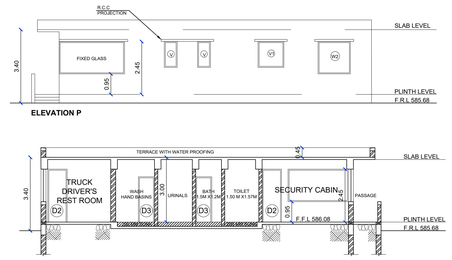
PROJECT INFORMATION

PLOT NO	:	D-1
USE	:	Industrial Buildings
SUBUSE	:	Service Industries
NODE	:	CTS/CS
SECTOR NO	:	
PLOT ADDRESS	:	CTS/CS:,Block No:,,Plot No:D-1,
Road/Street:		

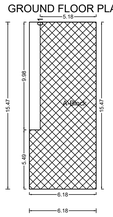
PERMIT NO				
INWARD NO	SWC/91/521/202 50113/1027055			
KEY NO	2658	SCALE	1:100	
DATE	12-03-2025	SHEET NO	4 / 6	



SECURITY CABIN TRUCK DRIVER'S RESTROOM & TOILET PLAN



GROUND FLOOR PLAN



Polygon	Area
A-Block	95.60
01	9.98
Total	85.62

FLOOR WISE FSI STATEMENT: 5 (SECURITY CABIN)

BUILDING	FSI AREA		BALC	PASS	STAIR	LIFT	TENE
	RESI	NON RESI					
GROUND FLOOR	0.00	85.62	0.00	0.00	0.00	0.00	0
Total	0.00	85.62	0.00	0.00	0.00	0.00	0

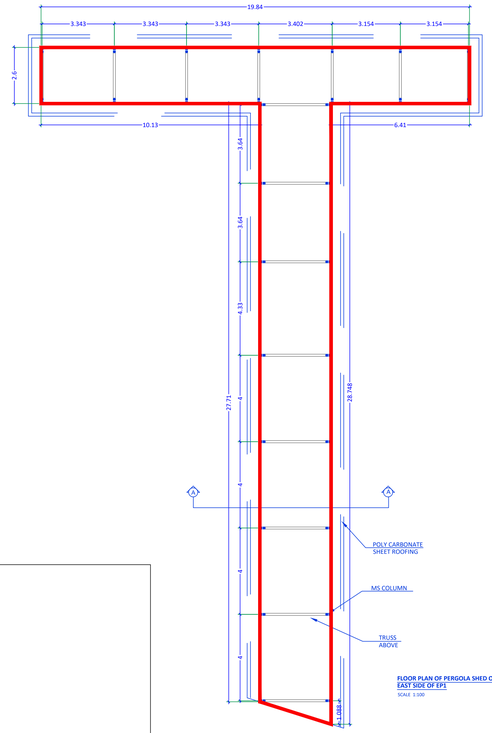
DOOR WINDOW SCHEDULE FOR SECURITY

WINDOW SCHEDULE

NAME	SIZE	CILL	LINTEL	DESCRIPTION	LOCATION
FW	AS PER DWG	0.95	2.45	FIXED GLASS WINDOW	CABIN
WDA	1.50 X1.65	0.95	2.45	TWO TRACK ALUMINUM WINDOW	CABIN, ROOM &TOILET
V	0.60 X0.90	1.20	2.10	LOUVERED ALUMINUM WINDOW	TOILET
V1	1.20 X0.60	1.20	2.10	LOUVERED ALUMINUM WINDOW	TOILET

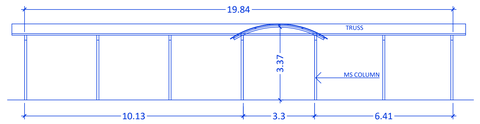
DOOR SCHEDULE

NAME	SIZE	CILL	LINTEL	DESCRIPTION	LOCATION
D2	1.80X2.40	---	2.40	SOLID FLUSH CORE SHUTTER	CABIN, ROOM &TOILET
D3	0.75X2.10	---	2.10	SOLID FLUSH CORE SHUTTER	TOILET

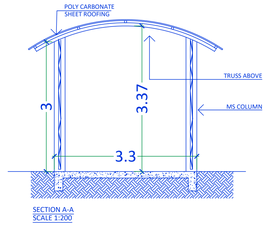


FLOOR PLAN OF PERGOLA SHED ON NORTH-EAST SIDE OF EPI.

SCALE 1:100



FRONT ELEVATION

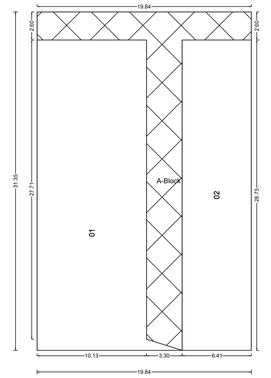


SECTION A-A
SCALE 1:200

FLOOR WISE FSI STATEMENT: A (PRO.WORK)

BUILDING	FSI AREA		BALC	PASS	STAIR	LIFT	TENE
	RESI	NON RESI					
GROUND FLOOR	0.00	144.74	0.00	0.00	0.00	0.00	0
Total	0.00	144.74	0.00	0.00	0.00	0.00	0

GROUND FLOOR PLAN



Polygon	Area
A-Block	621.95
01	292.94
02	184.27
Total	144.74

PROJECT TYPE - Building Development

SEAL OF APPROVAL

No.DB/KH/FSI/ D-1 / DIS / 105894 / of 2025
Date : 21 / 04 / 2025.

IRAPPA ANNAPPA NAIK

SPA/Executive Engineer
M.I.D.C. Division, Kolhapur.

Digitally signed by IRAPPA ANNAPPA NAIK
DN: c=IN, o=Personal, title=8300, pseudonym=Maharashtra, street=Flat no 101, Shriram Heights, First Floor,Plot no 9, Sector 11, Kharghar, l=Raigarh (MH), 2.5.4.20=3b0291377f5e3e5f4e8c7746d5b2b0e6f5737f8ba4e6e52819391e3a1b991c8
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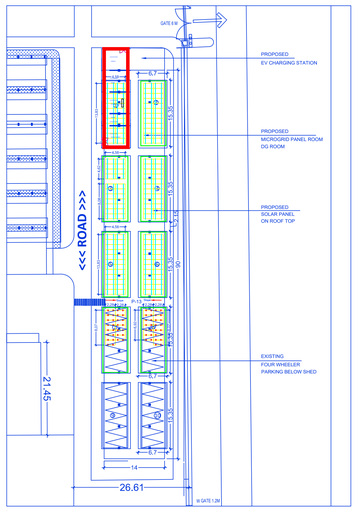
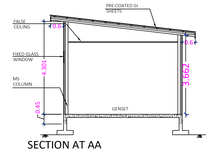
HIGH RISK



PROPOSED 40 KW SOLAR STATION

SCALE = 1:500



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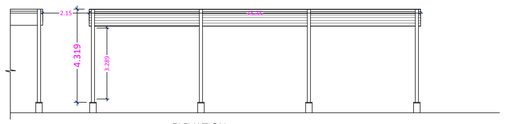
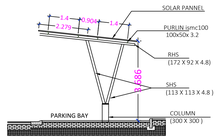
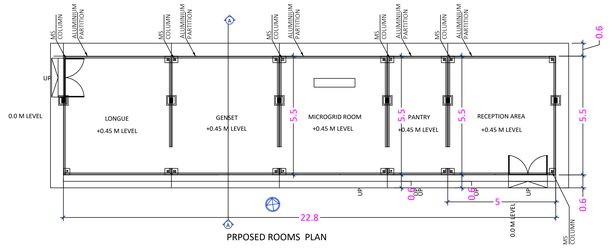


ELEVATION
SCALE = 1:100

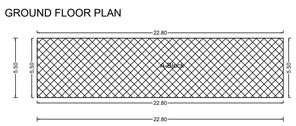


PARKING SHED SECTION
SCALE = 1:100



PRPOSED ROOMS PLAN

GROUND FLOOR PLAN



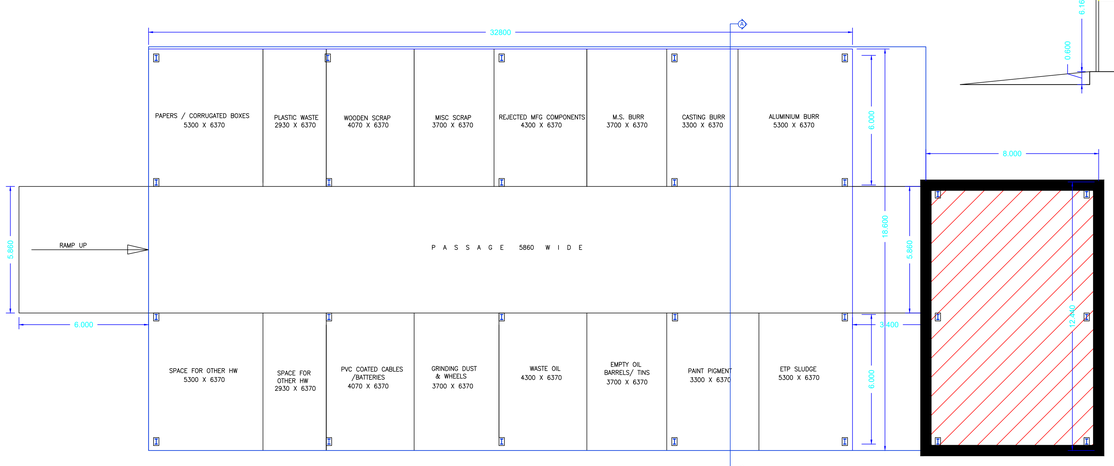
Polygon	Area
A-Block	125.40
Total	125.40

FLOOR WISE FSI STATEMENT: C (DG ROOM)

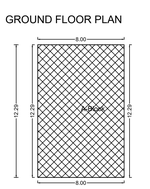
BUILDING	FSI AREA		BALC	PASS	STAIR	LIFT	TENE
	RESI	NON RESI					
GROUND FLOOR	0.00	125.40	0.00	0.00	0.00	0.00	0
Total	0.00	125.40	0.00	0.00	0.00	0.00	0

FLOOR WISE FSI STATEMENT: F25 (SCRAPYARD)

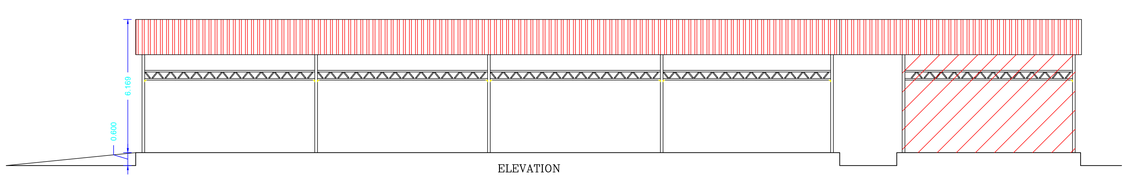
BUILDING	FSI AREA		BALC	PASS	STAIR	LIFT	TENE
	RESI	NON RESI					
GROUND FLOOR	0.00	98.32	0.00	0.00	0.00	0.00	0
Total	0.00	98.32	0.00	0.00	0.00	0.00	0



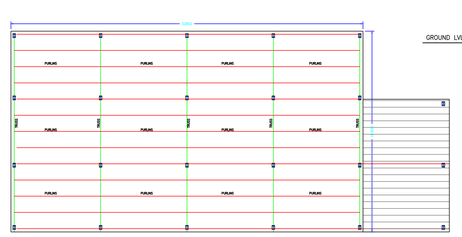
GROUND FLOOR PLAN



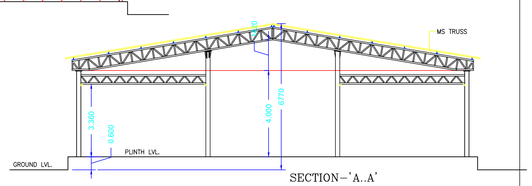
Polygon	Area
A-Block	98.32
Total	98.32



ELEVATION



ROOF PLAN 1:200



SECTION – 'A..A'

ELEVATION

ELEVATION

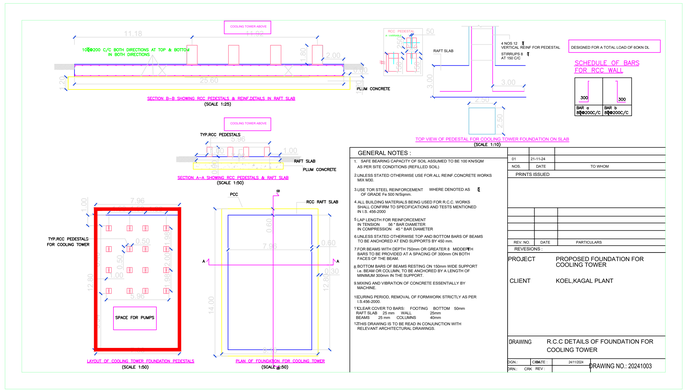
OWNERS NAME & SIGN/ARCH.NAME,SIGN & ADD

Vivek Mukund Deshpande	Sachin Prabhat Mujumdar

PROJECT INFORMATION

PLOT NO	:	D-1
USE	:	Industrial Buildings
SUBUSE	:	Service Industries
NODE	:	CTS/CS
SECTOR NO	:	-
PLOT ADDRESS	:	CTS/CS;,Block No:,,Plot No:D-1,
Road/Street:		

PERMIT NO			
INWARD NO	SWC/91/521/202 50113/1027055		
KEY NO	2658	SCALE	1:100
DATE	12-03-2025	SHEET NO	5 / 6



GENERAL NOTES :

1. SAFE BEARING CAPACITY OF SOIL ASSUMED TO BE 100 KN/SQM AS PER SITE CONDITIONS (REFILLED SOIL)
2. UNLESS STATED OTHERWISE USE FOR ALL REINF.CONCRETE WORKS M/s M/G.
3. USE TOR STEEL REINFORCEMENT WHERE DENOTED AS Fe 500 OF GRADE Fe 500 N/Sqmm.
4. ALL BUILDING MATERIALS BEING USED FOR R.C.C. WORKS SHALL CONFIRM TO SPECIFICATIONS AND TESTS MENTIONED IN I.S. 456-2000
5. LAP LENGTH FOR REINFORCEMENT IN TENSION 50 * BAR DIAMETER IN COMPRESSION 40 * BAR DIAMETER
6. UNLESS STATED OTHERWISE TOP AND BOTTOM BARS OF BEAMS TO BE ANCHORED AT END SUPPORTS BY 40D mm.
7. FOR BEAMS WITH DEPTH 750mm OR GREATER 8 - MIDDLE BARS TO BE PROVIDED AT A SPACING OF 300mm ON BOTH FACES OF THE BEAM
8. BOTTOM BARS OF BEAMS RESTING ON 150mm WIDE SUPPORT i.e. BEAM OR COLUMN, TO BE ANCHORED BY A LENGTH OF MINIMUM 300mm IN THE SUPPORT.
9. MIXING AND VIBRATION OF CONCRETE ESSENTIALLY BY MACHINE
10. CURING PERIOD, REMOVAL OF FORMWORK STRICTLY AS PER I.S.456-2000
11. CLEAR COVER TO BARS FOOTING BOTTOM 50mm RAFT SLAB 25 mm WALL 25mm BEAMS 25 mm COLUMNS 40mm
12. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS.

01	21/11/24
NOS	DATE

PRINTS ISSUED TO WHOM

REV. NO.	DATE	PARTICULARS

REVISIONS

PROJECT PROPOSED FOUNDATION FOR COOLING TOWER

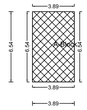
CLIENT KOEL,KAGAL PLANT

DRAWING R.C.C DETAILS OF FOUNDATION FOR COOLING TOWER

SCALE: 1:50 | CHK'D | 30/11/2024

DRAWING NO.: 20241003

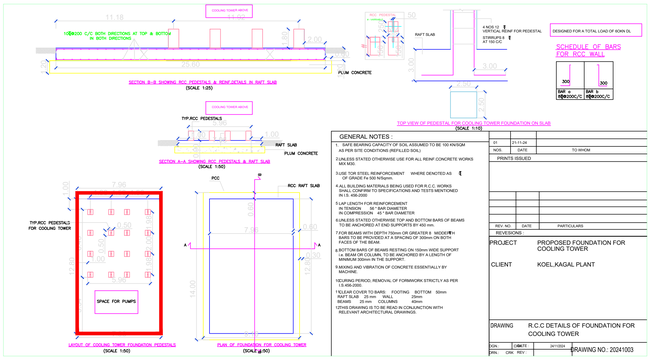
GROUND FLOOR PLAN



Polygon	Area
A-Block	25.46
Total	25.46

FLOOR WISE FSI STATEMENT: C1 (COLLING TOWER)

BUILDING	FSI AREA		BALC	PASS	STAIR	LIFT	TENE
	RESI	NON RESI					
GROUND FLOOR	0.00	25.46	0.00	0.00	0.00	0.00	0
Total	0.00	25.46	0.00	0.00	0.00	0.00	0



GENERAL NOTES :

1. SAFE BEARING CAPACITY OF SOIL ASSUMED TO BE 100 KN/SQM AS PER SITE CONDITIONS (REFILLED SOIL)
2. UNLESS STATED OTHERWISE USE FOR ALL REINF.CONCRETE WORKS M/s M/G.
3. USE TOR STEEL REINFORCEMENT WHERE DENOTED AS Fe 500 OF GRADE Fe 500 N/Sqmm.
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8. BOTTOM BARS OF BEAMS RESTING ON 150mm WIDE SUPPORT i.e. BEAM OR COLUMN, TO BE ANCHORED BY A LENGTH OF MINIMUM 300mm IN THE SUPPORT.
9. MIXING AND VIBRATION OF CONCRETE ESSENTIALLY BY MACHINE
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12. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS.

01	21/11/24
NOS	DATE

PRINTS ISSUED TO WHOM

REV. NO.	DATE	PARTICULARS

REVISIONS

PROJECT PROPOSED FOUNDATION FOR COOLING TOWER

CLIENT KOEL,KAGAL PLANT

DRAWING R.C.C DETAILS OF FOUNDATION FOR COOLING TOWER

SCALE: 1:50 | CHK'D | 30/11/2024

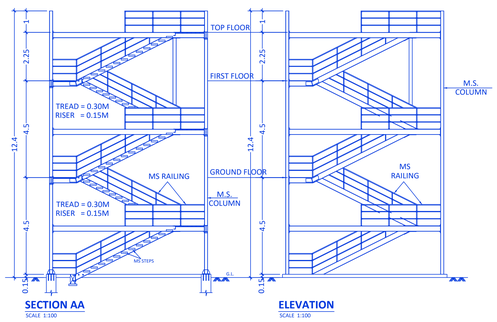
DRAWING NO.: 20241003

GROUND FLOOR PLAN

Polygon	Area
A-Block	25.46
Total	25.46

FLOOR WISE FSI STATEMENT: C3 (COOLING TOWER)

BUILDING	FSI AREA		BALC	PASS	STAIR	LIFT	TENE
	RESI	NON RESI					
GROUND FLOOR	0.00	25.46	0.00	0.00	0.00	0.00	0
Total	0.00	25.46	0.00	0.00	0.00	0.00	0



FLOOR WISE FSI STATEMENT: B (F 46 STAIRCASE)

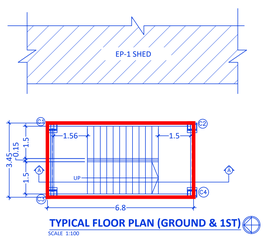
BUILDING	FSI AREA		BALC	PASS	STAIR	LIFT	TENE
	RESI	NON RESI					
FIRST FLOOR	0.00	22.93	0.00	0.00	20.02	0.00	0
GROUND FLOOR	0.00	23.43	0.00	0.00	20.02	0.00	0
Total	0.00	46.35	0.00	0.00	40.04	0.00	0

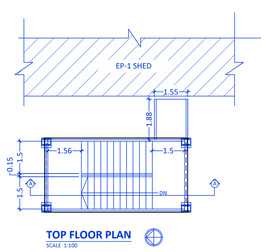
GROUND FLOOR PLAN

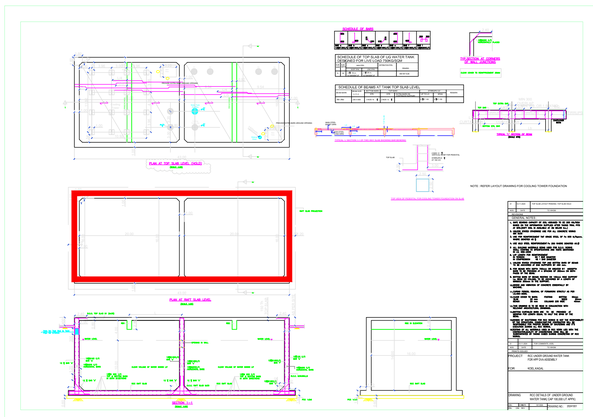
Polygon	Area
A-Block	23.43
Total	23.43

FIRST FLOOR PLAN

Polygon	Area
A-Block	22.93
Total	22.93



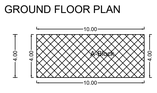




FLOOR WISE FSI STATEMENT: C2 (COOLING TOWER)

BUILDING	FSI AREA		BALC	PASS	STAIR	LIFT	TENE
	RESI	NON RESI					
GROUND FLOOR	0.00	40.00	0.00	0.00	0.00	0.00	0
Total	0.00	40.00	0.00	0.00	0.00	0.00	0

GROUND FLOOR PLAN



Polygon	Area
A-Block	40.00
Total	40.00

PROJECT TYPE - Building Development

SEAL OF APPROVAL

No.DB/KH/FSI/ D-1 / DIS / 105894 / of 2025
Date : 21 / 04 / 2025.

IRAPPA ANNAPPA NAIK

Digitally signed by IRAPPA ANNAPPA NAIK
DN: c=IN, o=Personal, postalCode=416801, st=Maharashtra, street=Flat no 102 Shivsagar Apartment Gokul Shirgaon Tal Karvir Kolhapur Colony,R.S. Kolhapur, title=RLO, 2.5.4.20=35d3615871705d3e9d3ebb719ab5ca0ff4ebbaa6e6e6e1c7d6d63a6d7c6, serialNumber=ba0f8ad6e4ba5f7f7e1c70cb16ca4e6c7d6d63a6f5f4ebbaa6e6e6e1c7d6d63a6c7c6, cn=IRAPPA ANNAPPA NAIK
Date: 2025.04.21 14:58:42 +05'30'

HIGH RISK

SPA/Executive Engineer
M.I.D.C. Division, Kolhapur.

OWNERS NAME & SIGN

Vivek Mukund Deshpande	Sachin Prabhat Mujumdar

ARCH.NAME,SIGN & ADD

PROJECT INFORMATION

PLOT NO	:	D-1
USE	:	Industrial Buildings
SUBUSE	:	Service Industries
NODE	:	CTS/CS
SECTOR NO	:	
PLOT ADDRESS	:	CTS/CS:,Block No:,,Plot No:D-1,
Road/Street:		

PERMIT NO			
INWARD NO	SWC/91/521/202 50113/1027055		
KEY NO	2658	SCALE	1:100
DATE	12-03-2025	SHEET NO	6 / 6

ANNEXURE-2

kirloskar
Oil Engines

Date: 7th June 2025

To,
The Member Secretary,
The SEAC III, Environment Department,
15th Floor, New Administrative Building,
Mantralaya, Mumbai-400032.

Subject: Undertaking to prepare and implement plan to make proposed project a plastic free zone

Respected Sir and Madam,

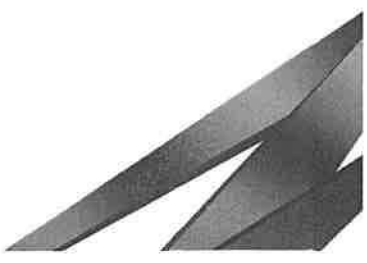
As the project proponent of Proposed Expansion of Industrial Shed Construction by Kirloskar Oil Engines Limited at Plot No. D-1, Five Star MIDC Kagal-Hatkanangale, A/p. – Talandage Tal. Hatkanangale, Dist. Kolhapur, Maharashtra; we hereby undertake that-

1. We have applied for EC for the above-mentioned project.
2. We shall prepare and implement plan to make our project plastic free zone.
3. That we shall adopt the following measures to make our project a Plastic-free zone:

1) **Bulk Purchases**: Order materials in bulk with reusable containers to reduce plastic packaging.
2) **Ban Single-Use Plastics**: Eliminate plastic bottles, cutlery and bags in the workplace, using reusable and environmentally sustainable alternatives.
3) **Plastic-Free Procurement**: Partner with suppliers who use eco-friendly packaging and set plastic-free requirements in contracts.
4) **Minimal Packaging Design**: Use sustainable materials like shredded cardboard or reusable crates for packaging.
5) **Employee Awareness**: Conduct workshops and place signage to promote plastic-free practices among staff.
6) **Plastic-Free Office Zones**: Replace plastic items in cafeterias, washrooms and break rooms with reusable or biodegradable options.

Kirloskar Oil Engines Limited
A Kirloskar Group Company

Regd. Office: Laxmanrao Kirloskar Road,
Khadki, Pune, Maharashtra - 411 003 India.
Tel: +91 (20) 25810341, 66084000
Fax: +91 (20) 25813208, 25810209
Email: info@kirloskar.com | Website: www.koel.kirloskar.com
CIN: L29100PN2009PLC133351



7) **Plastic Recycling Program**: Set up plastic waste collection points and partner with MPCB authorized recyclers.
8) **Returnable Packaging with Suppliers**: Arrange return systems for reusable containers from suppliers.
9) **Reusable Pallet Wraps**: Use pallet covers or straps instead of plastic wrap.
10) **Plastic-Use Audits**: Regularly audit plastic use, set reduction goals and track & make progress.

This declaration is given on 7th June **2025**, at Pune.

Thanking You.

Yours Faithfully,

Kirloskar Oil Engines Ltd. India Pune

Mr Makarand Joshi
Vice President

Kirloskar Oil Engines Limited
A Kirloskar Group Company

Regd. Office: Laxmanrao Kirloskar Road,
Khadki, Pune, Maharashtra - 411 003 India.
Tel: +91 (20) 25810341, 66084000
Fax: +91 (20) 25813208, 25810209
Email: info@kirloskar.com | Website: **www.koel.kirloskar.com**
CIN: L29100PN2009PLC133351

ANNEXURE-3

Plastic Waste Management Plan for Industrial Shed

Contents

1. Introduction

This Plastic Waste Management Plan (PWMP) has been prepared for the proposed industrial shed to ensure environmentally sound management of plastic waste generated during the operational phase of the project. The plan aims to minimize plastic waste generation, maximize reuse and recycling, prevent environmental pollution, and ensure compliance with the provisions of the **Plastic Waste Management Rules, 2016 and its amendments**, including restrictions on identified single-use plastic items.

2. Objectives

The objectives of the Plastic Waste Management Plan are to:

- Reduce generation of plastic waste at source.
- Ensure segregation of plastic waste from other solid wastes.
- Promote reuse and recycling of plastic materials.
- Provide adequate facilities for collection, storage, and transportation of plastic waste.
- Dispose plastic waste only through authorized recyclers/waste processors.
- Maintain proper records of plastic waste generation and disposal.
- Conduct periodic inspections and audits to ensure compliance.

3. Applicable Regulatory Framework

The project shall comply with:

- Plastic Waste Management Rules, 2016.
- Plastic Waste Management (Amendment) Rules, 2018.
- Plastic Waste Management (Amendment) Rules, 2021.
- Plastic Waste Management (Amendment) Rules, 2022.
- CPCB Guidelines on Plastic Waste Management.
- State Pollution Control Board requirements.

The industry shall prohibit use of banned single-use plastic items as notified by the Government of India.

4. Plastic Waste Generation Sources

Plastic waste generated from the industrial shed is expected from the following activities:

A. Administrative Office

- PET drinking water bottles.
- Food packaging materials.
- Stationery packaging.
- Plastic folders and covers.

B. Canteen Area

- Water bottles.
- Milk packets.
- Food ingredient packaging.
- Disposable plastic containers (if any).

C. Production and Packaging Area

- Stretch wrap films.
- Shrink wrapping films.
- HDPE/LDPE packaging sheets.
- Polypropylene (PP) strapping bands.
- Bubble wrap.
- Plastic pallets (damaged).

D. Stores and Warehouse

- Raw material packaging films.
- Plastic liners.
- HDPE bags.
- Protective packaging materials.

E. Maintenance Department

- Empty lubricant containers.
- HDPE chemical containers.
- Plastic drums.
- PVC packaging materials.

5. Inventory of Plastic Waste Generation

Sr. No.	Type of Plastic Waste	Material Type	Typical Thickness/Specification	Source	Estimated Generation
1	Stretch Wrapping Film	LDPE	23–50 microns	Packaging Area	25 kg/month
2	Shrink Wrap Film	LDPE	40–100 microns	Dispatch Section	15 kg/month
3	Packaging Sheets	HDPE	50–150 microns	Raw Material Storage	20 kg/month
4	PP Strapping Bands	Polypropylene	0.5–1.2 mm	Dispatch Area	8 kg/month
5	PET Water Bottles	PET	0.2–0.4 mm wall thickness	Offices/Canteen	200 bottles/month (~5 kg/month)
6	Empty Lubricant Containers	HDPE	1–3 mm	Maintenance Area	10 Nos./month (~8 kg/month)

7	Chemical Containers (Empty)	HDPE	2–5 mm	Utility Section	5 Nos./month (~10 kg/month)
8	Bubble Wrap Packaging	LDPE	50–100 microns	Warehouse	5 kg/month
9	Milk Packets	LDPE	45–60 microns	Canteen	3 kg/month
10	Plastic Carry Bags (if permitted)	HDPE	≥120 microns	Administrative Area	Minimal

Total Plastic Waste Generation: Approximately **90–100 kg/month** (1.1–1.2 TPA).

6. Plastic Waste Segregation System

Plastic waste shall be segregated at source into the following categories:

Category	Examples	Color of Bin
Recyclable Plastics	PET bottles, LDPE films, HDPE containers, PP straps	Blue
Contaminated Plastic Waste	Chemical containers, lubricant cans	Red
Non-Recyclable Plastic Waste	Multi-layer packaging, rejected plastics	Grey

Segregation Procedure

- Waste generators shall dispose plastic waste into designated bins.
- Housekeeping personnel shall collect segregated waste daily.
- Mixing of plastic waste with municipal waste shall be prohibited.
- Contaminated containers shall be triple-rinsed before storage.

7. Plastic Waste Collection System

Area	Collection Frequency	Responsible Person
Office Area	Daily	Housekeeping Staff
Canteen	Daily	Housekeeping Staff
Production Area	Shift-wise	Production Supervisor
Warehouse	Weekly	Store In-charge
Maintenance Area	As Generated	Maintenance Supervisor

Collected waste shall be transferred to the central storage area.

8. Plastic Waste Storage Facility

Storage Area Specifications

Parameter	Details
Location	Within utility/waste management area
Area Required	10–15 m²
Flooring	Impervious concrete floor
Roofing	GI Sheet Covered Shed
Drainage	Leachate-free arrangement
Security	Restricted access
Signage	"Plastic Waste Storage Area"
Fire Protection	ABC Fire Extinguisher
Ventilation	Natural ventilation

Storage Methodology

Plastic Type	Storage Method
PET Bottles	HDPE bins/baled bags
LDPE Films	Compacted bundles
PP Straps	Separate collection bags
Empty Containers	Palletized storage
Contaminated Plastics	Closed containers

Maximum storage period shall not exceed **90 days**.

9. Transportation and Disposal

Plastic waste shall be disposed only through **MPCB/CPCB authorized recyclers**.

Disposal Mechanism

Waste Type	Disposal Method
PET Bottles	Authorized Recycler
LDPE Films	Plastic Recycler
HDPE Containers	Authorized Recycler/Reprocessor
PP Straps	Recycler
Non-Recyclable Plastic	Co-processing in cement kilns/Authorized Agency
Contaminated Plastic	Authorized Hazardous Waste Facility

The recycler shall provide:

- GST Invoice.
- Waste Acceptance Receipt.
- Authorization Certificate.

10. Inspection and Monitoring Methodology

Daily Inspection

Conducted by: **Housekeeping Supervisor**

Checklist:

- Segregation bins available.
- Bins properly labeled.
- No littering observed.
- Plastic waste collected regularly.

Weekly Inspection

Conducted by: **EHS Officer**

Checklist:

- Storage area clean.
- Waste quantities recorded.
- Containers properly stored.
- No mixing with general waste.
- Fire extinguisher available.

Monthly Compliance Audit

Conducted by: **EHS Manager**

Checklist:

- Disposal records verified.
- Recycler authorization valid.
- Training conducted.
- Regulatory compliance maintained.
- Corrective actions implemented.

Annual Environmental Audit

Conducted by:

- Internal EHS Team or
- Third-party Environmental Consultant.

Audit Scope:

- Compliance status.

- Waste minimization initiatives.
- Recycling efficiency.
- Regulatory updates.

11. Record Maintenance System

The following records shall be maintained for:

- Plastic Waste Generation Register
- Plastic Waste Disposal Register
- Recycler Authorization Register
- Inspection Register
- Training Register

12. Training and Awareness Program

Training shall be conducted **twice annually** covering:

- Plastic Waste Management Rules.
- Segregation practices.
- Single-use plastic restrictions.
- Emergency response procedures.
- Good housekeeping practices.

Display boards and posters shall be installed at prominent locations.

13. Emergency Response Measures

In case of accidental spillage or fire:

- Inform EHS Department immediately.
- Isolate affected area.
- Use ABC type fire extinguishers.
- Collect scattered plastic waste promptly.
- Investigate incident and implement corrective actions.

14. Roles and Responsibilities

Activity	Responsibility
Waste Segregation	All Employees
Waste Collection	Housekeeping Team
Storage Management	EHS Officer
Disposal Coordination	EHS Department
Record Maintenance	EHS Executive
Inspection and Audit	EHS Manager
Employee Training	HR & EHS Department

15. Budget Allocation

Activity	Cost (₹/Year)
Segregation Bins (15 Nos.)	30,000
Storage Area Maintenance	20,000
Awareness & Training Programs	15,000
Inspection & Monitoring	10,000
Record Maintenance	5,000
Transportation & Disposal	25,000
PPE for Handling Waste	10,000
Contingency	10,000
Total Annual Budget	**₹ 1,25,000/-**

16. Performance Indicators

Indicator	Target
Plastic Waste Segregation Efficiency	100%
Waste Sent to Authorized Recyclers	100%
Compliance Inspections Completed	100%
Employee Training Coverage	≥95%
Reduction in Single-use Plastics	100% elimination of banned items

17. Conclusion

The proposed Plastic Waste Management Plan establishes a comprehensive framework for the identification, segregation, collection, storage, transportation, recycling, and disposal of plastic waste generated from the industrial shed. Implementation of this plan will ensure compliance with statutory requirements, promote resource recovery through recycling, prevent environmental contamination, and support sustainable industrial operations through effective waste management practices.

ANNEXURE-4

kirloskar
Oil Engines

Date: 7th June 2025

To,
The Member Secretary,
The SEAC III, Environment Department,
15th Floor, New Administrative Building,
Mantralaya, Mumbai-400032.

Subject: Undertaking for the water proposed to be used for construction phase should not be drinking water.

Respected Sir,

As the project proponent of **Proposed Expansion of Industrial Shed Construction Project at Kolhapur by Kirloskar Oil Engines Limited,** located at Plot No. D-1, Five Star MIDC Kagal-Hatkanangale, A/p. – Talandage Tal. Hatkanangale, Dist. Kolhapur., Maharashtra; we hereby undertake that-

1. We have applied for EC for the above-mentioned project.
2. That we have made an agreement to use Tanker water for the construction phase.
3. That the water proposed to be used for construction phase will not be drinking water.

This declaration is given on **7th June, 2025**, at Pune

Thanking You.

Yours Faithfully,

Kirloskar Oil Engines Ltd. India Pune

Mr Makarand Joshi
Vice President

Kirloskar Oil Engines Limited
A Kirloskar Group Company

Regd. Office: Laxmanrao Kirloskar Road,
Khadki, Pune, Maharashtra - 411 003 India.
Tel: +91 (20) 25810341, 66084000
Fax: +91 (20) 25813208, 25810209
Email: info@kirloskar.com | Website: **www.koel.kirloskar.com**
CIN: L29100PN2009PLC133351

ANNEXURE-5

भारतीय गैर न्यायिक

भारत INDIA

रु. 500 FIVE HUNDRED RUPEES

पाँच सौ रुपये Rs. 500

सत्यमेव जयते

INDIA NON JUDICIAL

महाराष्ट्र MAHARASHTRA 2024 DM 817031

अनु.क्र. ३६३६ दि. ११/६/२०२५ मु.शु.रक्कम ५००/-

दस्ताचा प्रकार प्रतिज्ञापत्र

दस्त नोंदणी करणार आहेत का ? होय/नाही.

मिळकतीचे वर्णन

मुद्रांक विकत घेणाऱ्याचे नांव किर्लोस्कर ऑईल इंजिन्स लि.

पत्ता लक्ष्मणराव किर्लोस्कर रोड खडकी पुणे ४११००३

दुसऱ्या पक्षकाराचे नांव

हस्ते व्यक्तीचे नांव व पत्ता राहुल रा. काळे-भेलकेनगर कोथरूड पुणे

मुद्रांक विकत घेणाऱ्याची सही

सौ. विणा गिरीश किरवे
परवाना क्र. २२०१०४४
वेताळनगर, कोथरूड, पुणे - ३

वरिष्ठ कोषागार अधिकारी पुणे

06 JUN 2025

प्रथम मुद्रांक लिपीक कोषागार पुणे करिता

ज्या कारणासाठी ज्यांनी मुद्रांक खरेदी केला त्यांनी त्याच कारणासाठी मुद्रांक खरेदी केल्यापासून ६ महिन्यात वापरणे बंधनकारक आहे.

AFFIDAVIT

I, undersigned **Makarand Joshi**, Vice President & Chief Operating Officer, Kirloskar Oil Engines Limited **(herein after referred as Industry)**, hereby solemnly declare this on 20th **day of June, 2025**, at **Pune, Maharashtra,**

That we have Proposed Expansion of Industrial Shed at at Plot No. D-1, Five Star MIDC, Kagal-Hatkanangale – 416 236, A/p Talandage, Taluka Hatkanangale, District Kolhapur, Maharashtra. We, with respect to various environmental commitments, declare as under:

KIRLOSKAR OIL ENGINES LTD. PUNE-3

1. **Waste Water Treatment –**

a. It is hereby declared that we shall be treating the sewage water using MBBR Technology based STP.
b. That we shall treat 100 % of the sewage generated at the proposed project.
c. That the 100 % of treated water shall be provided with disinfection treatment.
d. That the treated water shall be used for flushing and gardening purpose.
e. That treated water sample shall be tested through NABL accredited laboratory every month.
f. That the treated sewage water shall meet the following parameters before discharged in the available drainage system

Sr. No.	Design Parameters	Permissible limit for discharge to inland surface water per schedule 6 of EP Act 1986/As per latest NGT order	Attended Parameters
1.	pH	6.5-7.5	6.5-7.5
2.	Color & odour	Colourless / odourless	Colourless/odourless
3.	Temperature	Shall not exceed 5°C above the receiving	Shall not exceed 5°C above the receiving
4.	Oil & Grease (mg/l)	<5	<5
5.	Biological Oxygen Demand (BOD) (mg/l)	<10	<10
6.	Chemical Oxygen Demand (COD) (mg/l)	<30	<30
7.	Total Suspended Solid (TSS) (mg/l)	<10	<10
8.	Total Nitrogen (mg/l)	<10	<10
9.	Nitrate (mg/l)	<10	<10
10.	Dissolve PO_4 (as P) (mg/l)	<1	<1
11.	Faecal Coliform (MPN/100 ml)	No/100ML	No/100ML
12.	Residual Chlorine (ppm)	1.0	1.0
13.	Ammonical nitrogen (as N) mg/l Max	5.0	5.0
14.	Free Ammonia (as N) mg/l Max,	5	5
15.	Arsenic (as As.) mg/l Max	0.2	0.2
16.	Lead (as pb) mg/l Max	0.1	0.1
17.	Cadmium (as cd) mg/l Max	2.0	2.0
18.	Hexavalent chromium (as Cr) mg/l Max	0.1	0.1
19.	Total chromium (as Cr) mg/l Max	2.0	2.0
20.	Copper (as Cu) mg/l Max	3.0	3.0
21.	Zinc (as Zn) mg/l Max	5.0	5.0
22.	Nickel (as Ni) mg/l Max	3.0	3.0
23.	Fluoride (as F) mg/l Max	2.0	2.0
24	Manganese (as Mn)	2.0	2.0
25.	Sulphide (as S) mg/l Max	2.0	2.0
26.	Phenolic compounds (as C6H5OH) mg/l Max	1.0	1.0
27.	Iron (as Fe) mg/l, Max	3.0	3.0

KIRLOSKAR OIL ENGINES LTD. PUNE-3

2. Low Flow Fixtures –

a. That we have proposed to install "Low Flow Water Fixtures" in our project.
b. That we have proposed Dual Flush Tanks for the Toilets as our commitment towards water conservation.
c. That we have proposed Low Flow Faucets whereby water conservation is possible up to 15 % as per standard norms.
d. That we have proposed to install auto level switches to avoid overflow from UGT.

3. Wet Waste Management –

a. That we are proposing In-situ disposal of Bio-degradable and Garden waste.
b. That we are proposing Composting Unit for the disposal with adequate size.
c. That we shall observe Solid Waste (Management) Rules, 2016, E-Waste (Management) Rules, 2016 and the Plastic Waste (Management) Rules, 2016.
d. The Parameters for the Compost as specified by the FCO, 1985 shall be attained. The Parameters are as under:

No.	PARAMETERS	FCO, 1985
1	Moisture (% by weight)	15 -25
2	Bulk density (g/cub. Cm)	< 1.0
3	Total Organic Carbon (% by weight min)	12
4	Total Nitrogen as N (% by weight min)	0.8
5	Total Phosphates as P2O5 (% by weight min)	0.4
6	Total Potash as K2O (% by weight min)	0.4
7	C : N ratio	< 20
8	pH	6.5 – 7.5
9	Conductivity (as dsm – 1) -Not more than	4
10	Pathogens	NIL
11	Particle size (minimum % of material to pass through 4 mm IS sieve)	90
12	Color	Dark Brown
13	Foul Odour	Absent

4. Dry Waste Collection and Disposal –

a. That we are proposing Two Bins System at the above-mentioned project.
b. That E- Waste and hazardous waste shall be separately stored and disposed at pre-fixed time intervals to authorized agency as listed by MPCB.
c. That we hereby declare that we shall be providing space for Dry & Recyclable Waste collection.

5. Bio-Medical Waste Collection and Disposal-

a. That we shall ensure the in-situ segregation of Bio-medical waste generated from PPE.
b. That we shall dispose-off the biomedical waste by handing over to MPCB Authorized bio-medical waste Handlers.

KIRLOSKAR OIL ENGINES LTD. PUNE-3

6. **Energy Conservation Measures –**

a. That we shall be providing LED Fixtures for common areas such as Staircase, Lobby, Parking, Internal Road and open space provided in our project.
b. That the LED Fixtures shall be provided considering the area usage and sufficient lumens for providing sufficient lighting in the areas proposed above.
c. That we shall be installing Solar PV generation system with net metering facility for the proposed project.
d. That we shall be installing timer logic controllers for staircase lighting, lift lobby, parking area & street lights.

7. **Tree Plantation –**

a. That no allergic tree species shall be planted in the project.
b. That Trees propagating Avi-fauna, fruit bearing and flowering species shall be planted.
c. That local and native species shall be planted.
d. That the top soil layer i.e., excavated top soil with organic content shall preserved and shall be used for landscape development within the plot.
e. That No trees as planted or existing at the site shall be uprooted or cut without any prior approval from the competent authority.
f. That the Tree survival report shall be prepared and submitted in case of tree cutting or transplanting is to be done.

8. **Sustainable Water Supply & Drainage Connectivity -**

a. That we shall obtain NOC for Water Supply from sanctioning authority.
b. Water supply connection shall be made available at the time sanctioning from authority as per the prevailing procedure.
c. That we further declare that we shall make arrangement for sustainable water supply to the occupants until water supply from sanctioning authority is made available.
d. That we shall not provide occupancy unless sustainable water supply and drainage connectivity is provided for the proposed project.

9. **Separate KWH Meter –**

a. It is hereby declared that we shall be providing separate KWH Meter for all Pollution Control Devices after Common Amenity Meter of MSEDCL.
b. The Equipment with separate KWH Meters include –
   - Sewage Treatment Plant
   - Solid Waste Treatment Unit
   - DG Set
   - Common Area Lighting and other essential services

KIRLOSKAR OIL ENGINES LTD. PUNE-3

10. D G Set Operations –

a. That we shall be providing Inbuilt KWH Meter in DG Set panel for The Measuring of Units consumed by DG Set.

b. That we shall be providing DG set backup for common load i.e. Bldg. Common Lighting, Street Lights, Water Pumps, S.T.P., OWC, Pollution Control Devices, Fire Pumps & Other Essential Services.

This Affidavit is made at **Pune, Maharashtra** on **...th day of June, 2025** for submission to SEAC III, Environment Department, Mumbai-400032.

For Kirloskar Oil Engines Limited

KIRLOSKAR OIL ENGINES LTD. PUNE-3

Makarand Joshi
Vice President & Chief Operating Officer

Solemnly affirmed by the said at **Pune, Maharashtra** on this the **20th day of June, 2025.**

KIRLOSKAR OIL ENGINES LTD. PUNE-3

Deponent
Makarand Joshi
Vice President & Chief Operating Officer

Identified by me

BEFORE ME

NILESH NARESH BAGUL
NOTARY GOVT. OF INDIA
PUNE DISTRICT (MAHARASHTRA)
REGN.NO. 15063

NOTARY NILESH NARESH BAGUL PUNE DISTRICT (MAHARASHTRA) REGN.NO.15063 Exp.Dt. 10/10/2029 GOVERNMENT OF INDIA

NOTARIAL NOTARIAL NOTARIAL NOTARIAL NOTARIAL

NOTED AND REGISTERED
AT SERIAL NO. 123/2025
DATE 20/06/2025

ANNEXURE-6

kirloskar
Oil Engines

Date: 7th June 2025

To,
The Member Secretary,
The SEAC III, Environment Department,
15th Floor, New Administrative Building,
Mantralaya, Mumbai-400032.

Subject: Undertaking for the construction and demolition waste (C & D waste) collection and treatment as per prescribed rules.

Respected Sir,

As the project proponent of Proposed Expansion of Industrial Shed by Kirloskar Oil Engines Limited at Plot No. D-1, Five Star MIDC Kagal-Hatkanangale, A/p. – Talandage Tal. Hatkanangale, Dist. Kolhapur, Maharashtra; we hereby undertake that-

1. We have applied for Fresh EC for the above-mentioned project.
2. That the construction and demolition waste shall be collected and segregated at source.
3. That the treatment of the segregated construction and demolition waste (C & D waste) shall be done at designated places. We will be re-using demolition waste for land development.
4. All the Construction and Demolition Waste collection and treatment will be done as per the Construction and Demolition Waste Management Rules, 2016 amended from time to time.

This declaration is given on 7th June**, 2025**, at Pune

Thanking You.

Yours Faithfully,

Kirloskar Oil Engines Ltd. India Pune

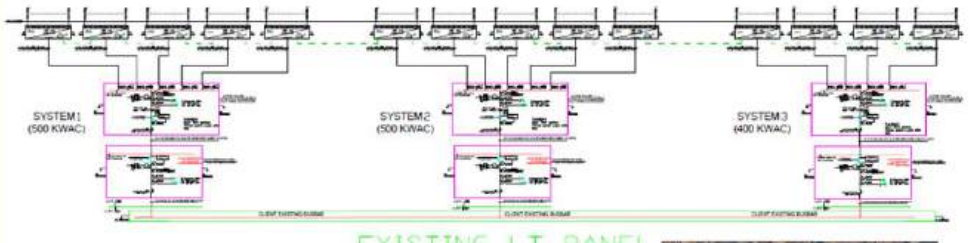
Mr Makarand Joshi
Vice President

Kirloskar Oil Engines Limited
A Kirloskar Group Company

Regd. Office: Laxmanrao Kirloskar Road,
Khadki, Pune, Maharashtra - 411 003 India.
Tel: +91 (20) 25810341, 66084000
Fax: +91 (20) 25813208, 25810209
Email: info@kirloskar.com | Website: **www.koel.kirloskar.com**
CIN: L29100PN2009PLC133351

Annexure – 8 : SOLAPR PV PLAN DETAILS

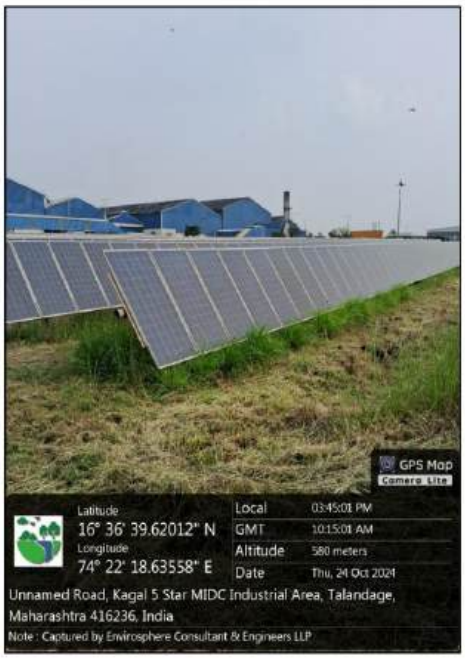
SOLAR PV PLAN



SOLAR POWER PLANT DETAILS	
Module Make.	GAUTAM SOLAR
NO. of Module in Series	20
Total No. of Modules	3200
Total Strings.	160
Inverter Make.	SUNGROW
No. of Inverter Used.	14
Tilt	7 DEG
Orientation	SOUTH
DC Capacity	1744 kWp
AC Capacity.	1400 kWac

LEGENDS	
DC String	
String Inverter	
Earthing	
AC MCCB	
AC ACB	
DC	
AC	
AC SPD	

Google Earth Image Showing Solar Panel



GENERAL NOTES:-
1. MODULE MAKE:- GAUTAM SOLAR
2. MODULES CAPACITY :- 545Wp (MONO-PERC)
3. MODULE ORIENTATION:- PORTAIT/LANDSCAPE
4. TOTAL MODULE:- 3200 NOS
5. NO OF STRING:- 160 NOS
6. MODULE PER STRING:- 20 NOS
7. TOTAL PLANT DC CAPACITY :- 1744 kWp
8. TOTAL PLANT AC CAPACITY:- 1400KWAC
9. DC/AC RATIO:- 1.25%
10. INVERTER MAKE:- SUNGROW
11. NOMINAL AC OUTPUT POWER- 100KW X 14NOS.(SG110CX)
12. INVERTER AC VOLTAGE - 400VAC
13. LOCATION :- RM WAREHOUSE, KOEL KAGAL, MAHARASHTRA
14. LATITUDE :- 16°36'47.12"N
15. LONGITUDE :- 74°21'53.93"E
16. ROOF TILT ANGLE :- 7° DEG ROOF SLOPE

90% Energy saving achieve through Existing Solar Power Plant Project

FSI DETAILS

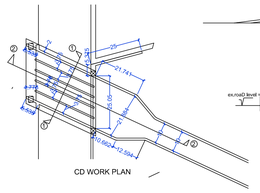
2 - INDEX	BASIC FSI	PREMIUM FSI/ADDIT-IONAL FSI	TOTAL IN -SITU/TDR	INCENTIVE FSI	RESI ANCIL-LARY AREA	NON RESI ANCIL-LARY AREA	TOTAL	INCLUSIVE HOUSING (20%) IF APPLICABLE	DRAWING VALUE
2.1 - PERMISSIBLE INDEX	1.00	2.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00
2.2 - EXISTING CONSUMED INDEX	0.35	0.00	0.00	0.00	0.00	0.00	0.35	00.00	0.00
2.3 - BALANCE INDEX TO BE CONSUME	0.65	2.00	0.00	0.00	0.00	0.00	2.65	00.00	0.00
2.4 - TOTAL PERMISSIBLE PLINE AREA	618213.78	1301800.00	0.00	123642.76	0.00	1536011.02	3456024.80	00.00	0.00
TOTAL PERMISSIBLE FOR REDEVELOPMENT AREA (PLINE AREA)	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00
2.5 - PROPOSED PLINE AREA (SHOULD NOT EXCEED 2.4)	-17851.72	0.00	65372.44	0.00	0.00	0.00	47520.64	00.00	47520.64
2.6 - INDEX CONSUMED	0.08	0.00	0.10	0.00	0.00	0.00	0.00	00.00	0.00

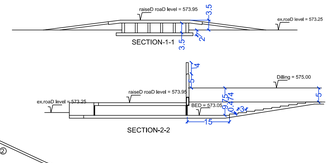
BUILDING WISE FSI STATEMENT

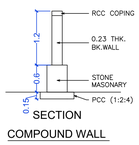
BUILDING	FSI AREA RESI	FSI AREA NON RESI	BALC	PASS	STAIR	LIFT	TENE
5-1 (SECURI...)	0.00	85.62	0.00	0.00	0.00	0.00	0
A-1 (PRO.WORK)	0.00	144.74	0.00	0.00	0.00	0.00	0
B-1 (F 46 S...)	0.00	46.35	0.00	0.00	40.04	0.00	0
C-1 (DG ROOM)	0.00	125.40	0.00	0.00	0.00	0.00	0
C1-1 (COLLI...)	0.00	25.46	0.00	0.00	0.00	0.00	0
C2-1 (COOLI...)	0.00	40.00	0.00	0.00	0.00	0.00	0
C3-1 (COOLI...)	0.00	25.46	0.00	0.00	0.00	0.00	0
F21-1 (FG W...)	0.00	13233.92	0.00	0.00	0.00	0.00	0
F22-1 (RM W...)	0.00	14195.53	0.00	0.00	0.00	0.00	0
F23-1 (HHP ...)	0.00	19469.83	0.00	0.00	0.00	0.00	0
F25-1 (SCRA...)	0.00	98.32	0.00	0.00	0.00	0.00	0
Total	0.00	47520.64	0.00	0.00	40.04	0.00	0

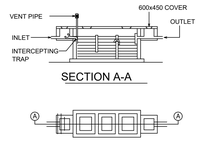
WATER REQUIREMENT

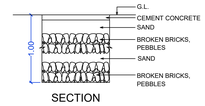
REQD CAPACITY(LIT)	PROP CAPACITY(LIT)
-NA-	400000.00

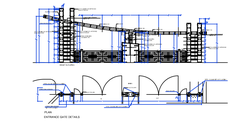


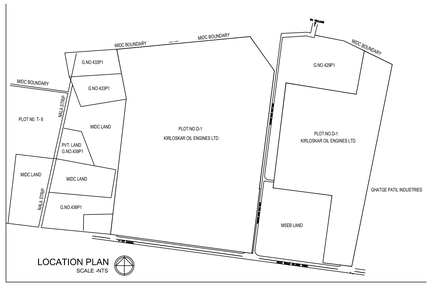


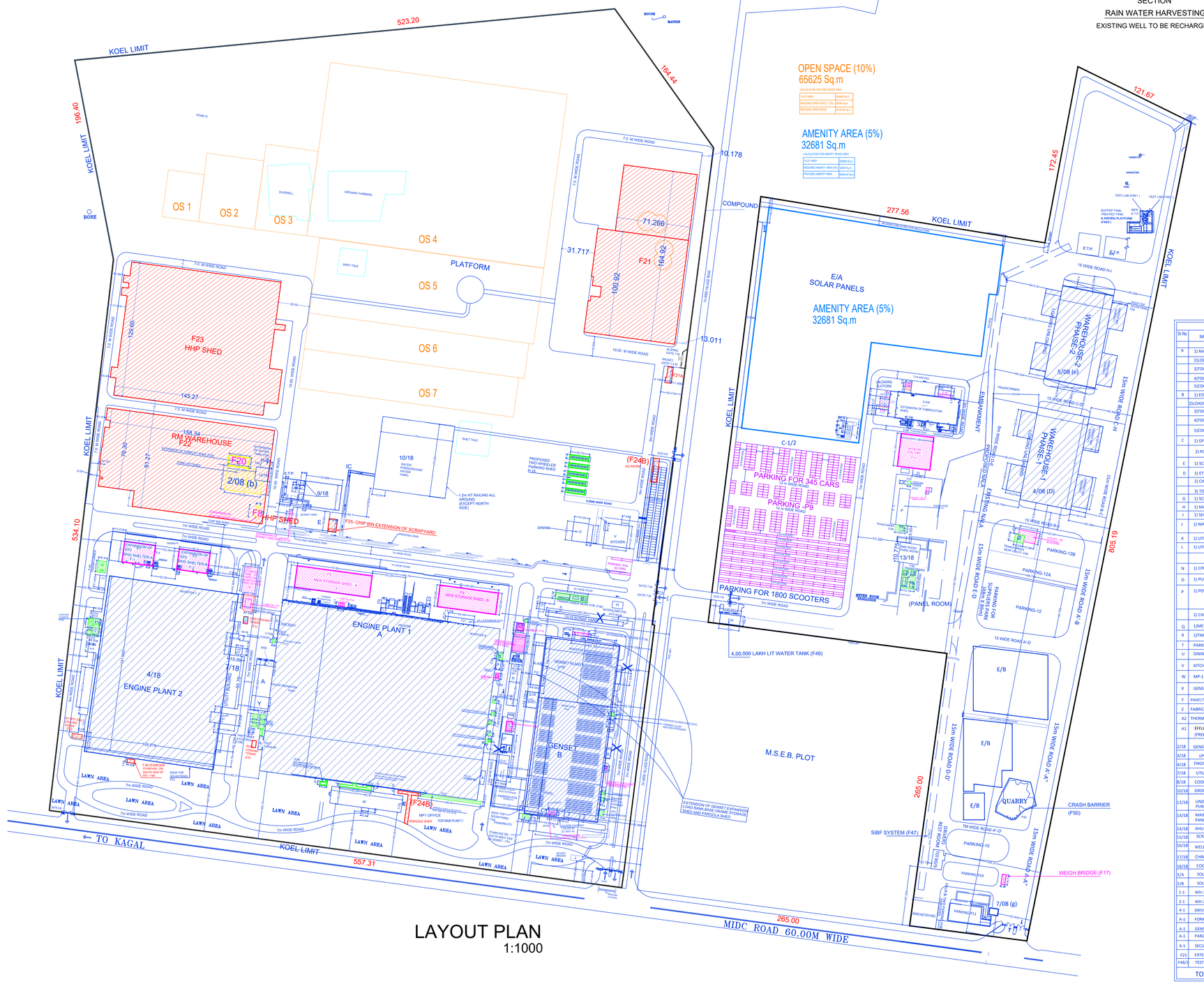












LAYOUT PLAN
1:1000

EXISTING BUILT UP AREA STATEMENT AS PER B.C.C.			
Sr.No.	NAME OF STRUCTURE	TOTAL AREA(Sq.M)	
A	1) MAIN PLANT	52967.34	
	2)LODING/UNLODING PLATFORM	1068.75	
	3)TOILET BLOCK(EAST & WEST)	116.16	
	4)TOILET BLOCK(EAST & WEST)	77.88	
	5)COOLENT PREPARATION	675	
B	1) EOU PLANT BUILDING	10918.21	
	2)LOADING/UNLOADING PLATFORM	106.87	
	3)TOILET BLOCK(EAST & WEST)	74.16	
	4)TOILET BLOCK(EAST & WEST)	56.31	
	5)COOLENT PREPARATION	59.74	
C	1) OFFICE BUILDING	1200.00	
	2) PORCH	26.75	
E	1) SCRAP YARD (MP-1)	610.08	
D	1) ETP	56.63	
	2) CHEMICAL STORE	9.75	
	3) TOILET BLOCK	4.08	
G	1) SCRAP SHAD (CHIP BIN)	47.30	
H	1) MATERIAL GATE SECURITY ROOM	64.89	
I	1) SECURITY - EOU	12.95	
J	1) MAIN SECURITY	47.38 10.50	
K	1) UTILITY BUILDING MP-1	440.64	
L	1) UTILITY BUILDING EOU	279.72	
N	1) CPCP	2699.60	
O	1) PUMP HOUSE	112.56	
P	1) POWER HOUSE	434.29	
		33.84	
	2) CHIMENY HOUSE	12.00	
Q	1)METER ROOM	30.25	
R	1)TIME OFFICE	119.44	
T	PARKING SHED	444.29	
U	DINING	352.47	
V	KITCHEN	471.65	
W	MP-1 OFFICE (ADMIN BUILDING II)	2267.44	
X	GENSET UTILITY SHED EXTENTION	57.46	
Y	PAINT,THINNER STORE ELECTRIC STORE	389.03	
Z	FABRICATION SHED	116.43	
A2	THERMIC FLUID HEATER EXTEN.	32.48	
A1	EFFLUENT TREATMENT PLANT (FREE OF FSI)	9.75	
2/18	GENSET PLANT EXPANSION	6937.04	
3/18	LPG SHED	207.69	
4/18	ENGINE PLANT 2	36028.04	
7/18	UTILITY BUILDING	811.65	
8/18	COOLANT PREPARATION SHED	239.85	
10/18	GROUND WATER TANK	4900.00	
12/18	UNDER GROUND WATER TANK & PUMP ROOM	162.26	
13/18	MAIN RECEVING STATION (MRS) PANEL ROOM	162.44	
14/18	AHU STRUCTURES	442.00	
15/18	SCRAP YARD	331.93	
16/18	WELD SHOP (CPCP)	187.41	
17/18	CHIMNEY FOUNDATIONS	72.27	
18/18	COOLING TOWER	8.41	
E/A	SOLAR INSTALLATION - 1	35656.53	
E/B	SOLAR INSTALLATION - 2	7852.56	
1-1	WH-1	16031.78	
2-1	WH-2	15958.76	
4-1	DRIVER'S REST ROOM	177.55	
A-1	FORK LIFT SHED	927.87	
A-1	GENSET	521.55	
A-1	PARGOLA SHED	93.62	
A-1	SECURITY CABIN	51.71	
F21	EXTENSION OF EP-1 ON NORTH SIDE	133.16	
F48/4	TEST LAB IN ETP SYSTEM	27.54	
	TOTAL EXISTING B.C.C AREA	204063.86	

AREA STATEMENT FOR DEMOLITION STRUCTURES		
SR.NO.	NAME OF THE STRUCTURE	TOTAL AREA SQ. MT.
G	1) SCRAP SHAD (CHIP BIN)	47.30
A-1	FORK LIFT SHED	927.87
F20	EXTENSION OF FORKLIFT SHED	323.95
F8	EXTENSION OF CHIP BIN SHED	51.04
	TOTAL AREA	1350.16
NET EXISTING AREA = EXISTING AREA - DEMOLITION AREA		202713.70

AREA STATEMENT FOR PREVIOUS APPROVED STRUCTURES AS PER LETTER NO. E11067 DATED ON 13/12/2022		
SR.NO.	NAME OF THE STRUCTURE	TOTAL AREA SQ. MT.
F0	WAREHOUSE UTILITY BUILDING	209.07
F1	EXTENSION -A OF SKID SHELTER	595.09
F2	EXTENSION - B OF SKID SHELTER	595.09
F3	NEW STORAGE SHED - A	2278.38
F4	NEW STORAGE SHED - B	1769.46
F5	TOILET BLOCK NEAR POWER HOUSE	12.00
F6	HSD STORAGE TANK YARD ON NORTH-EAST SIDE OF EP2	355.60
F7	LUBE OIL STORAGE YARD ON NORTH-EAST SIDE OF EP2	155.47
F8	EXTENSION OF CHIP BIN SHED	51.04
F9	COOLANT STORAGE TANK ON EAST SIDE OF GENSET	22.42
F10	COMPRESSOR SHED	180.38
F11	LOCKER ROOM ABOVE GENSET TOILET	24.00
F12	EXTENSION OF SCRAP YARD SHED	29.45
F13	LUBE OIL STORAGE YARD ON EAST SIDE OF EP-1	20.62
F14	LUBE OIL STORAGE YARD ON NORTH-WEST SIDE OF GENSET	60.84
F15	HSD STORAGE TANK YARD ON WEST SIDE OF GENSET	62.73
F16	EXPANSION OF FABRICATION SHED SHED	192.48
F17	WEIGH BRIDGE FOR WAREHOUSE	29.31
F18	LUBE OIL STORAGE YARD ON NORTH SIDE OF EP-1	20.91
F19	EXTENSION OF GENSET ON NORTH SIDE	72.20
F20	EXTENSION OF FORKLIFT SHED	317.65
F1/1	FUEL YARD-SF HFO & HSD NEAR POWER HOUSE	1082.03
	TOTAL AREA	8056.22

AREA STATEMENT FOR PROPOSED STRUCTURES		
F21	FG WAREHOUSE	13,233.92
F21A	SECURITY & TRUCK DRIVER ROOM	85.62
F22	RM WAREHOUSE	14,195.53
F23	HHP SHED	19,499.83
F24B	LOUNGE	27.50
	GENSET	27.50
	MICROGRID PANNEL ROOM	27.50
	PANTRY	15.40
	RECEPTION	27.50
F25	CHIP BIN	98.32
F46	MS STAIRCASE NEAR MP1	46.35
C1	COOLING TOWER SL 90 AT EP2	25.46
C2	DV TEST CELLS COOLING TOWER AT EP2	40.00
C3	RS50 COOLING TOWER AT EP1	25.46
F24A	PERGOLA SHED	144.74
	TOTAL PROPOSED AREA	47520.64
TOTAL AREA = NET EXISTING AREA + PREVIOUS APPROVED AREA + PROPOSED AREA		258290.64

PROJECT TYPE - Building Development

SEAL OF APPROVAL

No.DB/KH/FS/ D-1 / DIS / 105894 / of 2025.
Date : 21 / 04 / 2025.

IRAPPA ANNAPPA NAIK

SPA/Executive Engineer
M.I.D.C. Division, Kolhapur.

HIGH RISK

PROJECT INFORMATION

CASE TYPE	Addition or Extension
LOCATION	Non-Congested Area
PLOT USE	Industrial Buildings
PLOT SUB USE	Service Industries

AREA STATEMENT	SQ. M.
1. AREA OF PLOT (Minimum area of a, b, c to be considered excluding NIP)	650900.00
(a) As per ownership document (7/12, CTS extract)	0.00
(b) as per measurement sheet	650900.00
(c) as per site	0.00
2. DEDUCTIONS FOR	
(a) Proposed D.P./ D.P. RW Area/Service Road /Highway	0.00
(b) Any D.P. Reservation area (Total a+b)	0.00 0.00
3. BALANCE PLOT AREA (1 - 2)	650900.00
4. AMENITY SPACE (If applicable)	
(a) Required -	32545.00
(b) Adjustment of 2(b), if any -	000.00
(c) Balance Proposed -	32686.22
5. NET PLOT AREA (3-4(c))	618213.78
6. RECREATIONAL OPEN SPACE (If applicable)	
(a) Required -	65090.00
(b) Proposed -	65530.75
7. INTERNAL ROAD AREA	000.00
8. PLOTABLE AREA (if applicable)	000.00
9. BUILT UP AREA WITH REF. TO BASE F.S.I. AS PER FRONT ROAD WIDTH (Sr.no.5 x Base FSI)	618213.78
10. ADDITION OF FSI ON PAYMENT OF PREMIUM	
(a)Maximum permissible premium FSI - based on road width / TOD Zone.	1301800.00
(b) Proposed FSI on payment of premium.	0.00
11. IN-SITU AND TDR LOADING	
(a)In-situ area against D.P. road [2.0 x Sr. No. 2 (a)],if any	0.00
(b) In-situ area against Amenity Space if handed over [2.00 or1.85 x Sr. No. 4 (b)and /or(c)],	000.00
(c)TDR area	0.00
(d) Total in-situ / TDR loading proposed (11 (a)+(b)+(c))	65372.44
12. ADDITIONAL FSI AREA UNDER CHAPTER No. 7	
13. TOTAL ENTITLEMENT OF FSI	
(a) [9 + 10(b)+11(d)] or 12 whichever is applicable	1985386.22
(b) Ancillary FSI (upto 60%or80% with payment of charges)	1536011.02
(c) Total entitlement (a+b)	3456024.80
14. MAXIMUM UTILIZATION LIMIT OF F.S.I (Building Potential) Permissible As Per Road Width ((Reg. No. 6.1 or 6.2 or 6.3 or 6.4 as applicable)x1.6 or 1.8)	3456024.80
15. TOTAL BUILT-UP AREA IN PROPOSAL (excluding area at sr.no.17 b)	
(a) Demolished Area.	1350.16
(b) Existing Built-up Area (Net existing area + Previous approved area)	210769.92
(c) Proposed Built-up Area (as per 'P-line')	47520.64
(c) Total (b+c)	258290.64
16. F.S.I. CONSUMED (15/13) should not be more than serial No.14 above.)	0.43
17. AREA FOR INCLUSIVE HOUSING, if any	
(a) Required (20% of Sr.No.5)	000.00
(b) Proposed	000.00

CERTIFICATE OF AREA

CERTIFIED THAT THE PLOT UNDER REF. WAS SURVEYED ME & THE DIMENSIONS OF THE SIDES, ETC. STATED ON THE PLAN ARE AS MEASURED ON THE SITE AND THE AREA SO WORKED OUT TALLIES WITH THE AREA STATED IN THE DOCUMENT OF CITY SURVEY / TP RECORDS.

LEGEND

PLOT BOUNDARY SHOWN THICK BLACK	—
PROPOSED WORK SHOWN RED FILLED IN	—
DRAINAGE LINE SHOWN RED DOTTED	—
WATERLINE SHOWN BLUE DOTTED	—
EXISTING TO BE RETAINED HATCHED	—
DEMOLISHION SHOWN HATCHED YELLOW	—

OWNERS NAME & SIGN	ARCH.NAME,SIGN & ADD
Vivek Mukund Deshpande	Sachin Prabhat Mujumdar

PROJECT INFORMATION

PLOT NO	: D-1		
USE	: Industrial Buildings		
SUBUSE	: Service Industries		
NODE	: CTS/CS		
SECTOR NO	:		
PLOT ADDRESS	: CTS/CS;,Block No:,,Plot No:D-1,		
Road/Street:			
PERMIT NO			
INWARD NO	SWC/#1/521/202 50113/1027055		
KEY NO	2658	SCALE	1:100
DATE	12-03-2025	SHEET NO	1 / 6

MAHARASHTRA INDUSTRIAL DEVELOPMENT CORPORATION
(A Government of Maharashtra Undertaking)
Office :- Executive Engineer, MIDC, Division, Kolhapur.
e-mail : eekolhapur@midcindia.org
Phone No. 0231-2656582

No. MIDC/DB/KH/FS/ *D-1* / *E97788* / of 2021. **Date : 31 / 12 / 2021.**

BCC / OCCUPANCY CERTIFICATE

(Medium Risk)

To,
M/s. Kirloskar Oil Engines Ltd.
Plot No. *D-1*, MIDC,
Kagal Hatkanangale Five Star Indl. Area
Dist. Kolhapur.

Sub :- Issue of Occupancy certificate for Buildings on Plot No. ***D-1,***
Kagal Hatkanangale Five Star Industrial Area.

Ref : 1. On Line application vide SWC No - ***SWC/91/19/20211224/801753.***
2. Building Completion Certificate By Licence Engineer dt. 25/10/2021
3. Final Fire N.O.C. issued vide letter No.DB/KH/FS/Fire/ ***D-1 / E55763*** / of 2021. Dt. **29 / 11 / 2021.** (Issued by CFO & FA, MIDC Mumbai)
4. **4th additional** Plan approval vide letter No. DB/KH/FS/ **D-1 / D43184** / of 2019. Dt.: **17 / 10 / 2019.**
5. Site Inspection Report submitted by Architect dt.02/12/2021

Dear Sir,

This is certify that, **M/s. Kirloskar Oil Engines Ltd.** allotee of Plot No. **D-1** MIDC, **Kagal Hatkanangale Five Star** Industrial Area, Dist. Kolhapur, Pin Code **416006** have completed the development work of **Work Shop building** having **total built up area – 205498.68 sq.m. (1) Existing Built up Area = 171735.84M2 2) Built up Area as per approved Vide letter No. D43184 dt. 17/10/2019 B/A = 33762.85 M2 Total Built up Area = 205498.68 M2)** on Plot No. **D-1,** situated at **Kagal Hatkanangale Five Star** Industrial Area, MIDC, **Dist. Kolhapur**, is completed as per details mentioned below under the supervision of Engineer **Ar. Rupa Indrajit Nageshkar, Kolhapur.** (License No. **CA/95/18497**).

1.	Name of the Plotholdder	**M/s. Kirloskar Oil Engines Ltd.**
2.	Address	Kagal Hatkanangale Five Star Indl. Area
3.	Plot area	**650900.00 sq.m (Deduct R.G.Area 10% Net plot area 585810.00Sq. M)**
4.	**4th Addl.** Approval of Pians	MIDC/DB/KH/FS/ **D-1 / D43184** / of 2019. **Dt. : 17 / 10 / 2019.**
5.	Built-up Area Approved	**33762.85 sq.m. FSI = 0.057**
6.	Previous OC issued	**1) No. TB/KH/D-1/10312/ of 2010, dt. 09/04/2010 Built up Area = 72796.95 Sq. M 2) No. TB/KH/D-1/A44280/ of 2014, dt. 07/02/2014 Built up Area = 4817.53 Sq. M 3) No. TB/KH/D-1/B00872/ of 2015, dt. 31/03/2015 Built up Area = 51175.47 Sq. M 4) No. DB/KH/FS/D-1/B24532/ of 2019, dt. 05/04/2019 Built up Area = 43509.08 Sq. M 5) No. DB/KH/FS/D-1/C41996/ of 2021, dt. 25/05/2021 Built up Area = 160.70 Sq. M**

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		(Total Built up area = 172459.73 – demolish area = 723.89 M2 = balance area = 171735.84)
7.	Status of construction on site as per site Inspection report.	Completed as per approved plans.
	a) Built up area completed in all respect.	**205498.68 sqmtr**
	b) FSI Details	FSI Consumed = **0.35** (i.e **35%**)
8..	Remarks as per site inspection report submitted by owner / Architect.	Building is completed as per approved plans & as per MIDC DCR-2009.
9.	Total Area that could be considered as built up area.	**205498.68 sq.m.**

10. Details of Building Constructed and Built up Area approved :

Sr No	Drg. No. & Dt.	Name of Architects /Engineer	Name of unit	Built up area approved in sq.meters			Remarks
				Ground Floor	Extra Height	First Floor	
1	2	3	4	5	6	7	8
A) Existing permission granted vide letter No.TB/KOP/KH/FS/D-1/629 of 2010 dated. 02/03/2010							
1	--	Shri. Umesh Desai Associates.	Main Plant, Office Bldg. etc.	49319.90	22843.21	633.84	BCC issued vide letter No.B10312 dt.09/04/2013
Existing built up area =				49319.90	22843.21	633.84	72796.95 M2
Note :- This approval is now treated as Continued.							
B) Existing 1st Addl. Permission granted vide letter No.TB/KH/FS/D-1/A44276 of 2014 Dated: 07/02/2014							
1	-	Shri. Vinayak Thorat,	S) Skid Shelter	686.28	Nil	Nil	Occupancy Certificate issued vide letter No.A44280 dt.07/02/2014
			T) Parking Shed	444.29	Nil	Nil	
			U) Dining	352.47	Nil	Nil	
			V) Kitchen	471.65	Nil	Nil	
			W) MP-1 Office (Admin Bldg)	1167.42	24.73	1075.29	
			X) Gen set Utility Shed Extension	57.46	Nil	Nil	
			Y) Paint & Thinner Store	259.35	129.68	Nil	
			Z) Fabrication Shed	77.62	38.81	Nil	
			A2) Thermic Fluid Heater Exten. Sub Total	21.65	10.83	Nil	
Addl. Built up Area =				3538.19	204.05	1075.29	4817.53M2
Total Built Up Area Existing (A +B)				52858.09	23047.26	1709.13	**77614.48M2**
Note :- This approval is now treated as Continued.							

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C) Existing 2nd Addl. Permission vide letter No.TB/KOP/KH/FS/D-1/ B 00871 of 2015 Dated: 31 / 03 / 2015

1	2/18	Shri. C. R. Narayana Rao	Genset plant				Occupancy Certificate issued vide letter No.B00872 dt.31/03/2015
			Expansion	4682.04	2255.00	Nil	
	3/18		L.P.G Shed	138.46	69.23	Nil	
	4/18		Engine Plant 2	24294.68	11733.36	Nil	
	7/18		Utility Build.	811.65	Nil	Nil	
	8/18		Coolant Preparation plant	159.90	79.95	Nil	
	9/18		Effluent Treatment Plant	126.71 Free FSI	Nil	Nil	
	10/18		Ground Water Tank	4900.00	Nil	Nil	
			Skid Shelters	684.48	Nil	Nil	
	11/18		U.G Water Tank				
	12/18		and Pump Room	162.26	Nil	Nil	
	13/18		Main Receiving Station (MRS) Panel Room	162.44	Nil	Nil	
	14/18		AHU Structures	176.80	88.40	176.80	
	15/18		Scrap Yard	331.93	Nil	Nil	
	16/18		Weld Shop (CPCP)	124.94	62.47	Nil	
	17/18		Chimany Foundation	72.27	Nil	Nil	
	18/21		Cooling Tower	8.41	Nil	Nil	
Total Built Up for Second Additions				36710.26	14288.41	176.80	51175.47M2
demolition 1) Scrap Yard = 385.00M2 2) LPG Shed = 38.88M2				- 423.88	--	--	- 423.88
Total Built up Area =				36286.38	14288.41	176.80	50751.59
Total Built up Area (Ext. + Prop.) =				89144.47	37335.67	1885.93	128366.07
Proposed demolition G. F. Shed =				- 300.01	0.00	0.00	- 300.01
Grand Total Built up Area (Ext. + Prop.)				88844.46	37335.67	1885.93	128066.06 M2

Note :- This approval is now treated as Continued.

D) Existing 3rd Addl. Permission vide letter No.TB/KOP/KH/FS/D-1/ C25958 of 2018 Dated: 02 / 07 / 2018

		Shri. Indrajit S. Nageshkar, Kolhapur Lic. No. M/112998/2 - CA/95/1849 7	A)Solar Panel Installation - 1	35656.52	Nil	Nil	Occupancy Certificate issued vide letter No.B24532 dt.05/04/2019
			B)Solar Panel Installation - 2	7852.56	Nil	Nil	
Total Built Up for 3rd Additions =				43509.08	Nil	Nil	
Grand Total Built up Area (Existing)				132353.54	37335.67	1885.93	171575.14 M2

Note :- This approval is now treated as Continued.

E) Previous 4th Addl. Permission vide letter No.TB/KOP/KH/FS/D-1/ D43184 of 2019 Dated: 17 / 10 /2019

			G.F.	Extra Ht.	F.F.	Extra Ht	Total
1	Shri. Indrajit S. Nageshkar, Kolhapur Lic. No. M/112998/2 CA/95/1849 7	1-1 (WH2)	5270.13	2647.89	5400.80	2712.96	16031.78
		2-1 (WH2)	5270.11	2647.89	5352.14	2688.63	15958.77
		4-1 (D. Rest Room)	177.55	Nil	Nil	Nil	177.55
		A-1 (Fork Lift)	618.58	309.29	Nil	Nil	927.87
		A-1 (Genset)	347.70	173.85	Nil	Nil	521.55
		A-1 (Pergola Shed)	93 62	Nil	Nil	Nil	93.62
		A-1 (Security Cabin)	51.71	Nil	Nil	Nil	51.71
Total Built Up for 4th Additions			11829.40	5778.92	10752.94	5401.59	33762.85 M2

(Only Approved Occupancy / BCC not taken)

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Grand Total Built up Area (Existing + Previous 4th Addl.)		144182.94	43114.59	12638.87	5401.59	205337.98 M2
Note :- This approval is now treated as Continued.						
F) Existing 5th Addl. Permission vide letter No.TB/KOP/KH/FS/D-1/ B17423 of 2020 Dated: 12 / 05 /2020						
Ar. Rupa Indrajit Nageshkar, Kolhapur Lic. No. CA/95/18497 (Valid 31/12/2020)	1) F-21 Prop. Extension of EP-1 2) F-48/1 Test lab in New ETP System	G.F. 133.16 27.54	Extra Ht Nil Nil	F.F. Nil Nil	Extra Ht Nil Nil	Occupancy Certificate issued vide letter No.C41996 dt.25/05/2021
Total Built Up for 5th Additions		160.70	Nil	Nil	Nil	160.70 M2
Note :- E) Previous 4th Addl. Permission vide letter No.TB/KOP/KH/FS/D-1/ D43184 of 2019 Dated: 17 / 10 /2019 (Occupancy apply SWC/91/19/20211224/801753)						
Total Built Up for 4th Additions		11829.40	5778.92	10752.94	5401.59	33762.85 M2
Grand Total Built up Area (A+B+C+D+E+F)		144343.64	43114.59	12638.87	5401.59	205498.69 M2

REMARKS.:-

Total Plot Area = 650900.00 M2, (Deduct R.G.Area 10% hence Net plot area = 585810.00M2			
Sr. No	F. S. I. Consumption		F. S. I. Consumption
1	Ground Floor	144343.64	0.246
2	G.F. Extra Height	43114.59	0.073
3	First Floor	12638.87	0.021
4	F.F. Extra Height	5401.59	0.009
5	**Total (Up to date) =**	**205498.69**	**0.35**

As requested vide ref. no. 1 & as per site inspection report vide ref no. **5** , you are permitted to occupy this building having total built up area – **205498.69 sq.m. (FSI - 0.35%).**

If any discrepancies observed on site in future with respect to site inspection report submitted vide ref no. 5, then legal action as per MR&TP Act 1966 as deemed fit shall be taken please note.

Note: - The Licensee is here by obligated that he shall construct minimum 40% on the said plot within prescribed time limit.

MARUTI SHRIPATI KALKUTAKI

SPA/Executive Engineer,
M.I.D.C. Division, Kolhapur.

Copy to ;

- Copy f.w.c.s. to the Regional Officer, MIDC Kolhapur for favour of information.
- Copy to Deputy Engineer, MIDC, Sub-Dn. Kagal for information.
- Copy to Deputy Engineer,(E&M) MIDC, Dn. Kolhapur for information.
- Copy to Engineer Ar. Rupa Indrajit Nageshkar for information.
- Copy to guard file.

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ANNEXURE-12

kirloskar
Oil Engines

ENERGY UNDERTAKING

To,
The Member Secretary,
The SEAC III, Environment Department,
15th Floor, New Administrative Building,
Mantralaya, Mumbai-400032.

DATE:- 7th June 2025

We, Kirloskar Oil Engines Limited, hereby agree and undertake to implement / provide facilities in our project indicated in the schedule attached hereto, along with supporting calculations annexed.

1. We shall not only try to comply with ECBC norms laid down for generation of energy but also try to maximize utilization of the available terrace area to the maximum extent for renewable energy generation.

2. We shall also try to install latest available gadgets to make optimum use of power and mitigate all power losses.
3. We shall provide DG (with automatic switching on/ off) backup which shall be equal to or more than 10% of maximum demand or equal to all emergency requirements like Fire Fighting Pumps, Emergency Lighting, Water Pumps, STP, Solid Waste Treatment Plant, etc. whichever is higher.

4. Clear Road approach of required width for transformer and DG set to facilitate maintenance of these equipment's shall be provided.

Kirloskar Oil Engines Ltd. India Pune

Mr Makarand Joshi
Vice President

Enclosed - Detailed Annexure for backup

Kirloskar Oil Engines Limited
A Kirloskar Group Company

Regd. Office: Laxmanrao Kirloskar Road,
Khadki, Pune, Maharashtra - 411 003 India.
Tel: +91 (20) 25810341, 66084000
Fax: +91 (20) 25813208, 25810209
Email: info@kirloskar.com | Website: www.koel.kirloskar.com
CIN: L29100PN2009PLC133351

ANNEXURE-13

ECBC COMPLAINCE REPORT

M/S KIRLOSKAR OIL ENGINES LIMITED, KOLHAPUR

REINVENT DESIGN TECHNOLOGIES LLP

www.rdt-corp.com

Project Name	M/s Kirloskar oil engines limited		
Project Location	Kolhapur		
Client Name	M/s Kirloskar oil engines limited		
Climate zone	Warm and Humid		
Latitude	16.70°N	**Longitude**	74.24°E
Building typology	Industrial building	**Project description (New/Existing)**	New
Plot area	650900 Sq.m.	**FSI area**	46552.43
Total built up area	259640.79 Sq.m (Existing+Proposed)	**Compliance for**	ECBC 2017

Project Information

Sr.No	Model input parameter	ECBC base case	Proposed building
1	Total Terrace area available in the project	-	22968.25 Sq.m
2	Actual area proposed to be utilized for generating solar energy	-	RM Warehouse: 8300 Sq.m FM Warehouse: 5700 Sq.m
3	Connected Load		10000 kW
4	Demand Load		6000 kW
5	1% demand load / energy proposed to be generated through renewable sources as a percentage of demand load.	60 kW 1% of Total Demand Load	2375 kW (39.5% Energy Saving By SVP Panel)
6	20% water heating / water heating capacity provided as percentage of total water heating requirement.	-	-
7	Actual solar energy generated through solar PV	90 MWh/Yr.	3562.5 MWh/Yr.
8	Essential power load for fire fighting Lifts Etc. required during emergency.	600 kW	600 kW
19	Actual DG backup provided which should equal to or more than 10% of maximum demand or equal to all emergency requirements like Fire Fighting Pumps, Fire Lifts, Emergency Lighting, Water Pumps, STP, Solid Waste Treatment Plant, Water Treatment Plant Etc. whichever is higher.	600 kW	600 kVA 6Nos. , 5625 kVA 1Nos., 500 kVA 3Nos. , 250 kVA 1Nos. DG Set
10	Special Mitigating factors provided in the project for the efficient use of project		
a	Latest transformer		5000 kVA 2 No.s , 2500 kVA 3 No.s, 1000 kVA 4 No.s , 500 kVA 2 No.s , 2000 kVA 5 No.s , 1400 kVA 1 No.s Transformers
11	Total Power saving including saving due to Solar PV		3562.5 MWh/Yr.

Sr.no	Model input parameter	ECBC base case	Proposed building
1	Climate type	Warm and Humid	Warm and Humid
2	External Wall Construction, all building types	U value – 0.53 W/m^2.K	U value – 0.92 W/m^2.K AAC block wall with plaster on both sides 150mm thick+ Metal steel with insulation
3	Roof Construction All building types	U value – 0.23 W/m^2.K	U value - 0.19, W/m2.K Galvanized sheet roof with 2" XPS insulation
4	Vertical Fenestration	Glass U-value – 3.24 W/m^2.K SHGC – 0.25 VLT- 27% Minimum	Saint Gobain DGU Glass U-value – 2.8 W/m^2.K SHGC – 0.6 VLT- 60%
5	WWR	40%	28%
6	Shading Devices	No Shading devices	As per design
7	Ventilation rates	11 CFM / person ASHRAE 62.1 2010	15 CFM / person ASHRAE 62.1 2010 + 30%
8	Warehouses: Fans	Provision of BEE 3 star ceiling fans in all places naturally ventilated	The Project shall comply with the minimum requirement of 3 star ceiling HVLS fans in all spaces.
9	Offices: HVAC System	EER Value required for size category >=70 (kWr) is 3.02	VRV system used.
10	Lighting power density	Warehouse: 3.5 W/ m^2 Staircase: 7.1 W/ m^2 Offices: 9.7 W/ m^2 Electrical/ Mech room: 9.7 W/ m^2 Parking and Exterior: 3 W/ m^2 Toilet: 7.7 W/ m^2 Miscellaneous: 9.7 W/ m^2	Warehouse: 2.5 W/ m^2 Staircase: 4.5 W/ m^2 Offices: 6.8 W/ m^2 Electrical/ Mech room: 6.8 W/ m^2 Parking and Exterior: 2.1 W/ m^2 Toilet: 5.4 W/ m^2 Miscellaneous: 6.8 W/ m^2
11	Equipment power density W/m^2	15 W/ m^2	15 W/ m^2
12	Pumps & Motors	IE2 Efficiency-77.2%	IE3 Efficiency-82.8%
13	Domestic Hot water	-	-
14	Process loads	As per Design	As per Design
15	DG Sets	BEE 3 Star rated DG Sets	BEE 3 Star rated DG Sets
16	PF correction	0.97	0.97
17	Power Distribution losses	<3%	<3%
18	Renewable Solar PV	1%	39.5%

Sr. no	Building Parameters	Maximum Demand load in kW		Energy Conservation Measures	% savings
		Conventional Case	Proposed case		
a) Industrial					
1	Internal Lighting	595	387	1. LED Tubes & Lamps for all areas with motion sensors	35.0%
2	Air conditioning	400	300	Advanced BEE 5 Star Rated AC Equipments	25.0%
3	Equipment load	5171	5171	2.15 A Load - Star rating energy efficient equipments to be used	0.0%
5	External and Common area Lighting	208	142	LED Lamps with Timer Based Controls	32.0%
	Total	**6375**	**6000**	**Total Savings in Energy Demand -375 kW**	**5.88%**

Sr.No.	Energy Conservation Measures	Percentage Savings
1.	Better Envelope Design	5.88% Energy saved as per conventional Base Case Industrial- 3.12% Energy saved as per ECBC Base Case.
2.	Lower Lighting Loads	
3.	Efficient Air Conditioning Systems	
4.	Efficient Pumps & Motors	
5.	Solar PV Systems	39.5% of Demand Load (2375 kW)

Solar PV	2375 kW
Demand load	6000 kW
Savings through Renewable energy	**39.5%**

Solar PV panels is proposed for the entire project, in order to stimulate the use of renewable energy and sustainable development.

SOLAR PV CALCULATIONS				
Demand load (in kW)	1% of Demand Load (in kW)	Solar PV proposed (in kW)	Percentage of demand load	No. of panels required (545W/Panel)
6000	60	2375	39.5%	5400
Area required per panel				2.6 Sq.m.
Area required for solar PV panel				14000 Sq.m.
Total Area Required for Solar PV Panels including circulation area				14700 Sq.m.

TERRACE AREA CALCULATION					
Total roof area (in Sq.m.)	Shadow free area (in Sq.m.)	Usable roof area (in Sq.m.)	Area required by solar hot water panels (in Sq.m.)	Area required by solar PV panels (in Sq.m.)	Total roof area utilized for solar panels (in Sq.m.)
22968.25	17226.18	17226.18	-	14000	14000
Percentage of usable roof area utilized for solar provision					18.72%

This report was developed for the proposed Industrial project in Kolhapur. This report is part of the procedure to obtain MOEF Environmental Clearance. The particular aim of this report is to assess annual energy consumption and implement various energy efficiency strategies for ECBC compliance to achieve maximum energy efficiency.

Various analysis techniques show that the buildings are suitably shaded, naturally ventilated, and have plenty of daylight. The final energy simulation results for the planned structures are shown below.

	ECBC Base Case	Proposed Case	Proposed Case + Solar PV
Annual energy consumption (MWh/yr)	43496.35	42136.32	24958.20
Energy Saving		3.12%	42.62%

This report was developed for the proposed Industrial project in Kolhapur. This report is part of the procedure to obtain MOEF Environmental Clearance. The particular aim of this report is to assess annual energy consumption and implement various energy efficiency strategies for ECBC compliance to achieve maximum energy efficiency.

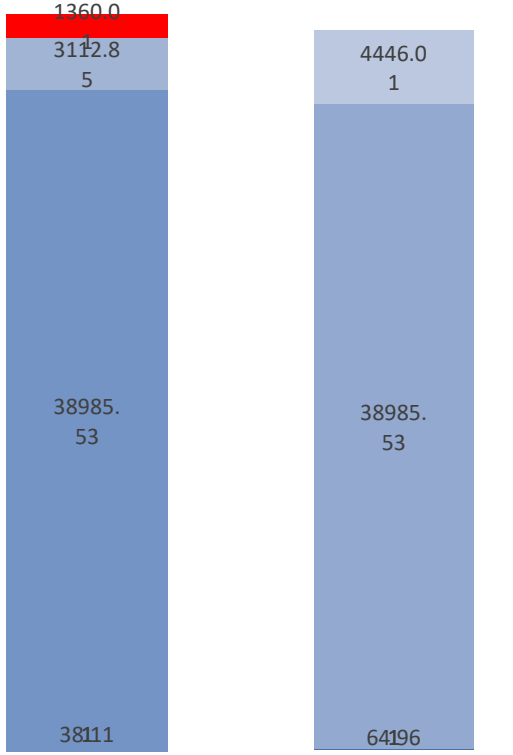
Sr.No.	Description	Details	Units
1	Total Site area	650900	Sq.m.
2	Total Built-up area	259641	Sq.m.
3	Connected Load	10000	kW
4	Demand Load	6000	kW
5	Solar PV Panel Capacity	2375	kWp

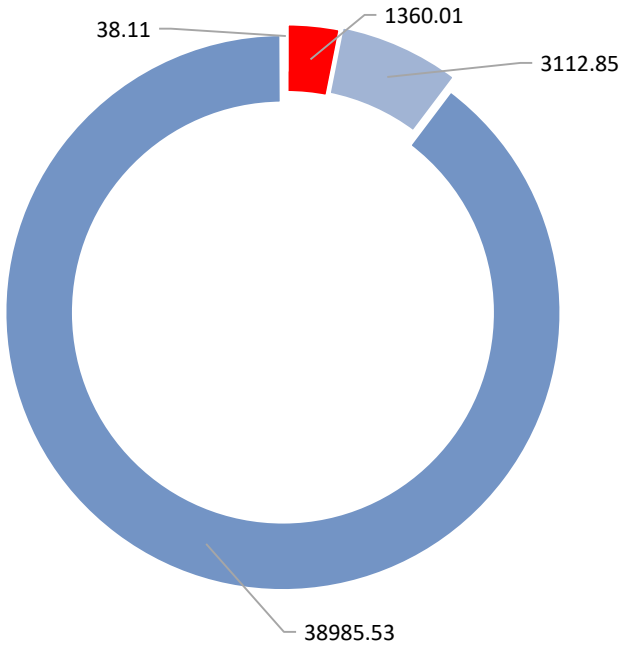
- The proposed building complies all of the requirements of mandatory sections 4.2, 5.2, 6.2, and 7.2.
- There are 2 cases which are considered ECBC Base case, Proposed case.

ECBC Base project annual energy summary: **43496.35 MWh**

Proposed project annual energy summary: **42136.32 MWh**

	ECBC Base Case	Proposed Case
EPI (kWh/m^2/yr)	167.52	162.28
Annual energy consumption (MWh)	43496.35	42136.32
Energy saving		3.12%





Energy- use comparison for all end uses proposed v/s baseline

Industrial Building case		
	Proposed case	ECBC Base Case
Savings In Electricity	1360.01	
Area Light	3112.85	4446.01
Equipment and Misc	38985.53	38985.53
Space cooling	38.11	64.96

Energy (MWh) for end-uses proposed case showing saving over ECBC Base Case.

The current proposed case saves up to **3.12%** of energy over the ECBC Base case.

SCHEDULE FOR FACTORY

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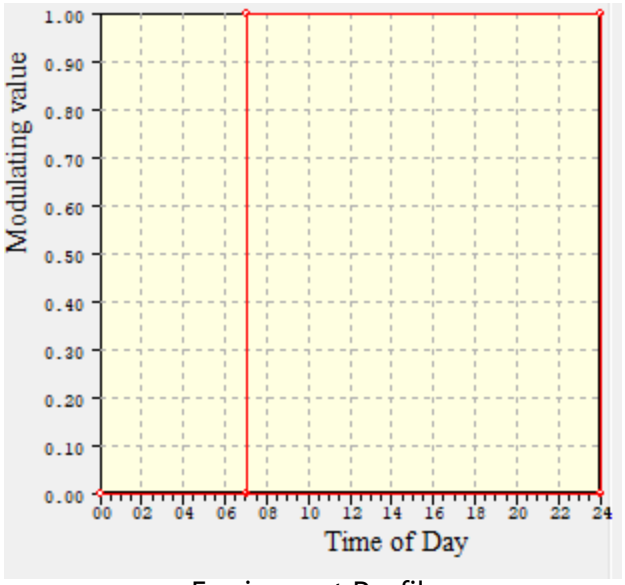

Equipment Profile

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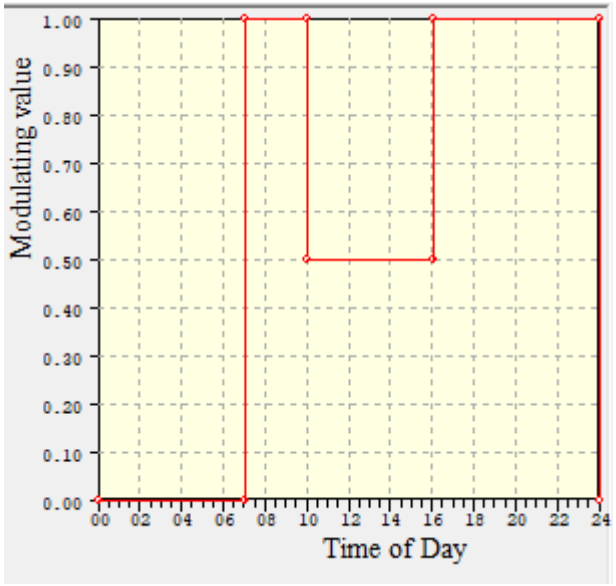

Lighting Profile

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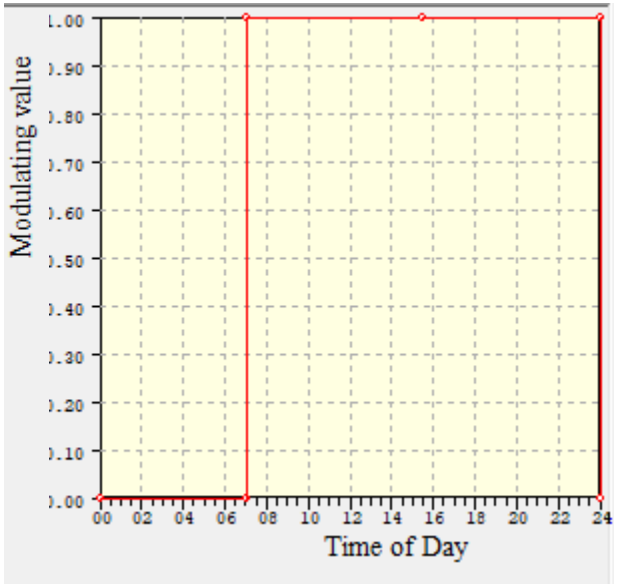


Occupancy Profile

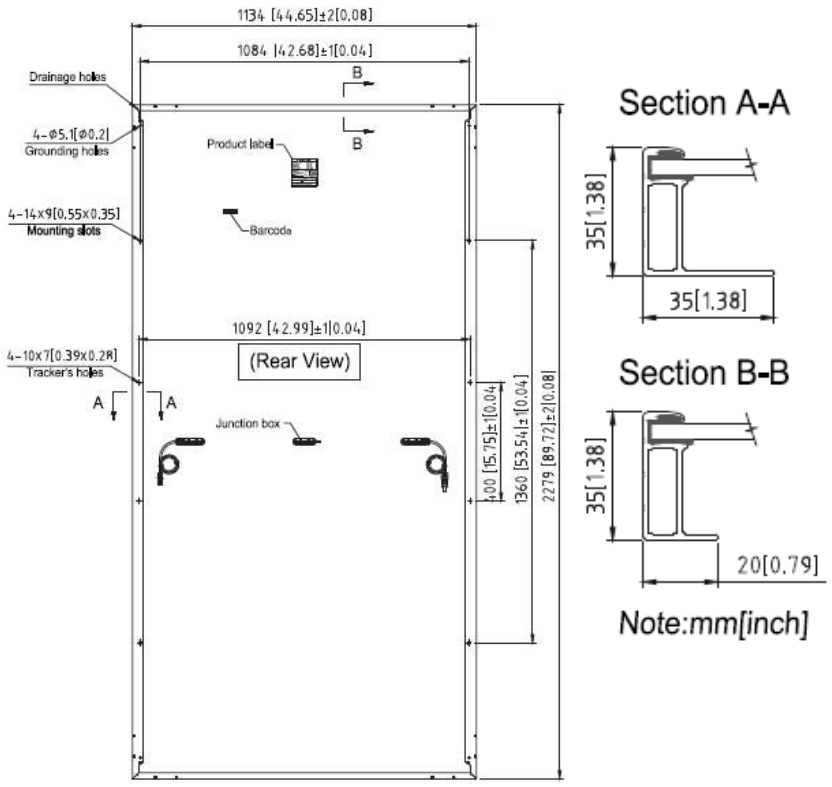
The observations in this report is based on the use of the virtual analysis tool RETscreen. The simulation was conducted for Kolhapur location to assess the orientation and slope of the proposed Solar Panel installation.

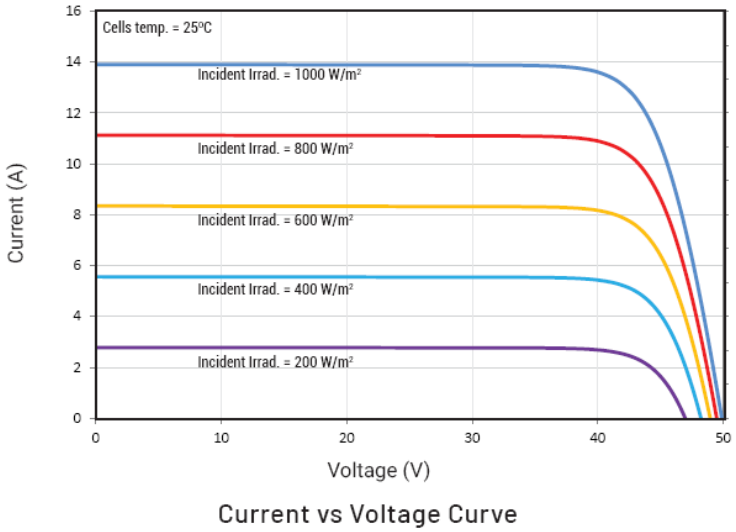
Total connected load for entire project	10000	kW
Maximum demand load for entire project	6000	kW
1% of demand load	60	kW
Renewable energy proposed for the entire project	2375	kW

The simulation shows that solar panels with a capacity of 2375 KWp will generate 3562.5 MWh of power per year. The required Solar Panel placements are proposed with the right Orientation (Azimuth Angle) and Slope (Altitude Angle) of the Solar Panel.

RET Screen calculations		
Solar tracking mode		Fixed
Slope		25
Azimuth		180
Solar Data		
Photovoltaic		Monocrystalline silicon
Type		AE14HXXXVHC10B
Power capacity	kW	2375
Manufacturer		Anchor by Panasonic
Model		AE14HXXXVHC10B
No. of units		5400
Efficiency	%	21.7
Nominal operating cell temperature	◦C	42±2
Temperature coefficient of Pmax	%/◦C	-0.36
Solar collector area	Sq.m.	26.62
Misc. losses	%	14.08
Summary		
Electricity generated	MWh/yr	3562.5

Engineering Drawings





Current vs Voltage Curve

Packing Configuration

Container	40' HC	Pieces per pallet	31
Pallets per container	20	Pieces per container	620
Packaging box dimensions	2310×1130×1245 mm	Packaging box weight	965 kg

Mechanical Characteristics

Cell Type	Monocrystalline Silicon 182 mm
No.of Cells	144 (6 × 24)
Dimensions	2279 × 1134 × 35 mm
Weight	29.1 kg
Front Glass	3.2mm
Frame	Anodized aluminum alloy
Junction Box	IP68 rated (3 bypass diodes)
Output Cables	4mm²
Portrait	(-) 350 mm and (+) 160 mm in length
Connectors	MC4 EVO2, Cable 01S

MAHARASHTRA POLLUTION CONTROL BOARD

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

Kalpataru Point, 2nd, 3rd and 4th floor, Opp. Cine Planet Cinema, Near Sion Circle, Sion (E), Mumbai-400022

RED/L.S.I (R2)
No:- Format1.0/CAC/UAN No.0000227209/CE/2503002982

Date: 20/03/2025

To,
Kirloskar Oil Engines Limited,
Plot No. D-1, Five Star MIDC Kagal-Hatkanangale,
A/p.-Talandage, Tal. Hatkanangale, Dist. Kolhapur.

Your Service is Our Duty

Sub: Consent to establish for expansion, under RED category.

Ref:
1. Earlier Renewal of consent vide No:- Format1.0/CAC/UAN No.MPCBCONSENT-0000156691/CR/2305000839 dated 12.05.2023.
2. Minutes of 16th CAC meeting dated 11.02.2025.

Your application No.MPCB-CONSENT-0000227209 Dated 28.11.2024

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 under Rule 6 and Rule 18(7) 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:

1. **The consent to establish is granted for a period up to commissioning of the unit or up to 5 year whichever is earlier.**
2. **The capital investment of the project is Rs.500 Crs. (As per undertaking submitted by pp Existing CI is-Rs. 904.3 Crs + Expansion/Increase in C.I. – Rs. 500 Crs.)**
3. **Consent is valid for the manufacture of:**

Sr No	Product	Maximum Quantity	UOM
Products			
1	Solar Power Generation Plant	9.3	MW
2	Machined spare parts of Engine, Genset, Pump set, etc.	82000	No/M
3	I.C. Engines	12500	No/M
4	Generating Sets	2500	No/M
5	Pumpsets	8000	No/M
6	Fuel Oil from plastic waste	75	Kg/cycle

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

Sr No	Description	Permitted (in CMD)	Standards to	Disposal Path
1.	Trade effluent	30	As per Schedule-I	On land for gardening
2.	Domestic effluent	24	As per Schedule-I	On land for gardening

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

Sr No.	Stack No.	Description of stack / source	Number of Stack	Standards to be achieved
1	S-1 to S-2	DG Set-500 kVA x 2 Nos	2	As per Schedule -II
2	S-3 to S-8	DG Set-1010 x 3 Nos	6	As per Schedule -II
3	S-9 to S-12	Paint Booth- 4 Nos.	4	As per Schedule -II
4	Vent Pipe-6 Nos.	Lube Oil System of Engine	6	As per Schedule -II
5	S-13 to S-18	Test Bed- 6 Nos.	6	As per Schedule -II

6. **Non-Hazardous Wastes:**

Sr No	Type of Waste	Quantity	UoM	Treatment	Disposal
1	Waste Welding Glass	300	Kg/M	Segregated	Sale to authorized vendor for recycle
2	Canteen Waste	25000	Kg/M	Bio-gas plant, OWC followed by vermicomposting facility	Used in input of Biogas plant/as manure within own premises
3	Waste Plastics	7500	Kg/M	Segregated	Sale to authorized vendor
4	Electrical cables/Assorted material scrap	2000	Kg/M	Segregated	Sale to authorized vendor
5	Metal Scrap	120	MT/M	Segregated	Sale to authorized vendor
6	Garbage	23.5	MT/M	Segregated	Sale to authorized agency
7	Wooden scrap	39.06	MT/M	Segregated	Sale to authorized vendor
8	Rubber plastics	32	MT/M	Partly used as raw material to plastic fuel plant	Sale to authorized vendor/Plastic to fuel plant
9	Waste corrugated boxes	15.75	MT/M	Segregated	Sale to authorized vendor
10	Cotton waste	0.37	MT/M	Segregated	Sale to authorized vendor

Sr No	Type of Waste	Quantity	UoM	Treatment	Disposal
11	Grinding Dust	6.5	MT/M	Segregated	Sale to authorized vendor/Recycler
12	Sheet Scrap	1.25	MT/M	Segregated	Sale to authorized vendor

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./ Type	Quantity	UoM	Treatment	Disposal
1	33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	1100	No/M	Incineration/ Recycle*	Sale to authorised party / CHWTSDF
2	35.3 Chemical sludge from waste water treatment	55	MT/M	Landfill	CHWTSDF
3	21.1 Process wastes, residues and sludges	25	MT/M	Incineration/ Recycle*	Sale to authorised party / CHWTSDF
4	33.2 Contaminated cotton rags or other cleaning materials	15	MT/M	Incineration	Sale to authorised party / CHWTSDF
5	Grinding wheels	3.5	MT/A	Incineration/ Recycle*	Sale to authorised party / CHWTSDF
6	Waste rockwool/waste glass tissue paper	2300	Kg/M	Incineration	CHWTSDF
7	12.5 Phosphate sludge	8000	Kg/M	Landfill/ Recycle*	Sale to authorised party / CHWTSDF
8	13.1 Spent pickling liquor	1	MT/M	Landfill	CHWTSDF
9	33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	55500	No/M	Recycle*	Sale to authorised party / CHWTSDF
10	35.2 Spent ion exchange resin containing toxic metals	1000	Kg/Annum	Incineration	CHWTSDF

Sr No	Category No./ Type	Quantity	UoM	Treatment	Disposal
11	21.1 Process wastes, residues and sludges	5	MT/M	Incineration/ Recycle*	Sale to authorised party / CHWTSDF
12	20.1 Contaminated aromatic, aliphatic or napthenic solvents may or may not be fit for reuse.	0.5	KL/M	Incineration	CHWTSDF
13	36.2 Spent carbon or filter medium	500	Kg/M	Incineration	CHWTSDF
14	5.1 Used or spent oil	10	KL/D	Recycler	Sale to Authorized Party for Recycle
15	5.2 Wastes or residues containing oil	3500	Kg/M	Incineration	CHWTSDF

8. **Conditions under Batteries (Management & Handling) Rules, 2001:**

Sr No	Type of Waste	Quantity	UoM	Disposal Path
1	Used Lead Acid Batteries	20.00	Ton/Y	Sale to authorized recycler.

Specific Conditions for used Batteries:

i. The applicant shall ensure that used batteries are not disposed of in any manner other than by depositing with the authorized dealer/ manufacturer/ registered recycler/ importer/ re-conditioner or at the designated collection center.

ii. The applicant shall file half-yearly return in Form VIII to the M.P.C. Board.

iii. Bulk consumers to their user units may auction used batteries to registered recyclers only.

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

Sr No	Type of Waste	Quantity	UoM	Disposal Path
1	E-Waste	25.00	Ton/Y	Sale to authorized recycler.

10. The Board reserves the right to review, amend, suspend, revoke this consent and the same shall be binding on the industry.

11. This consent should not be construed as exemption from obtaining necessary NOC/ permission from any other Government authorities.

12. The applicant should not take any effective steps for implementation of the project before obtaining Environmental Clearance as per EIA Notification 2006 and amendments thereto. As per Para 2 of EIA notification dated- 14.09.2006, the effective steps include starting of any construction work or preparation of land by the project management. However as clarified by the MoEF vide office memorandum no. J-1103/41/2006-IA.II(I); Dated- 19/08/2010, fencing of the site to protect it from getting encroached and construction of temporary shed(s) for the guard(s) & acquisition of land not be treated as an effective step.

13. This consent is issued pursuant to the decision of the 16th Consent Appraisal Committee Meeting held on 11.02.2025

14. Industry shall install online continuous monitoring system as per CPCB guidelines & data to be transmitted directly from Data Logger to Board server .
15. The applicant shall obtain Consent to Operate from Maharashtra Pollution Control Board before actual commencement of the Unit/Activity. (Establish)
16. PP shall not take any effective steps towards construction till to obtain Environmental Clearance from competent authority as proposed BUA is exceeding 1,50,000 Sq. M.
17. PP shall provide adequate ETP & STP system for treatment of effluent.
18. PP shall comply with construction and demolition waste management rules 2016 and amended thereto.
19. PP shall submit BG of Rs. 25.0 Lakh towards compliance of consent conditions.
20. The industry shall create an Environment Cell by appointing an Environmental Engineer OR Expert for looking after day-to-day activities related to Environment OR Pollution control.

This consent is issued on the basis of information/documents submitted by the Applicant/Project Proponent, if it has been observed that the information submitted by the Applicant/Project Proponent is false, misleading or fraudulent, the Board reserves its right to revoke the consent & further legal action will be initiated against the Applicant/Project Proponent.

Received Consent fee of -

Sr.No	Amount(Rs.)	Transaction/DR.No.	Date	Transaction Type
1	1000000.00	TXN2412001620	10/12/2024	Online Payment

Copy to:

1. Regional Officer, MPCB, Kolhapur and Sub-Regional Officer, MPCB, Kolhapur
- They are directed to ensure the compliance of the consent conditions.
2. Chief Accounts Officer, MPCB,Sion, Mumbai
3. CC-CAC updating.

SCHEDULE-I

Terms & conditions for compliance of Water Pollution Control:

1. A] As per your application, you have provided Effluent Treatment Plant (ETP) of designed capacity of 120.00 CMD consisting of Primary (Collection tank, Neutralization tank, Primary Clarifier/Primary Settling Tank) for the treatment of Existing 115 CMD & Expansions 30 CMD of trade effluent.

   B] The Applicant shall operate the effluent treatment plant (ETP) to treat the trade effluent so as to achieve the following standards prescribed by the Board or under EP Act, 1986 and Rules made there under from time to time, whichever is stringent:

Sr.No	Parameters	Limiting concentration not to exceed in mg/l, except for pH
(1)	pH	6.0 -8.5
(2)	BOD (3 days 27°C)	30
(3)	COD	250
(4)	TSS	100
(5)	Oil & Grease	10
(6)	Ammonical Nitrogen	100
(7)	Bio - Assay Test**	90% Survival of Fish after first 96 hours in 100% effluent

   C] The Industry shall ensure connectivity online monitoring system to the MPCB server including separate energy meter for pollution control system.

   D] The treated effluent shall be recycled for secondary purposes to the maximum extent and remaining shall be discharged on land for gardening within premise after confirming above standards. In no case, effluent shall find its way for gardening / outside factory premises.

2. A] As per your application, you have provided Sewage Treatment Plant of designed capacity 422 CMD for the treatment of 24 CMD of sewage.

   B] The Applicant shall operate the sewage treatment system to treat the sewage so as to achieve the following standards.

Sr.No	Parameters	Standards (mg/l)	
1	Suspended Solids	Not to exceed	50
2	BOD 3 days 27°C	Not to exceed	30
3	COD	Not to exceed	100

   C] The treated sewage shall be recycled for secondary purposes to the maximum extent and remaining shall be discharged on land for gardening within premise after confirming above standards. In no case, sewage shall find its way for gardening / outside factory premises.

3. The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification there of & 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 an extension or addition thereto.
4. 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.
5. The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Act, 1974 and as amended, by installing water meters and other provisions as contained in the said act:

Sr. No.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, spraying in mine pits or boiler feed	80.00
2.	Domestic purpose	26.00
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	40.00
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	0.00
5.	Gardening	10

6. 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/ Environmental Clearance/ CREP guidelines.

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 to erect following stack (s) to observe the following fuel pattern:

Stack No.	Source	APC System provided/proposed	Stack Height(in mtr)	Type of Fuel	Sulphur Content(in %)	Pollutant	Standard
S-1 to S-2	DG Set-500 kVA x 2 Nos	Acoustic Enclosure Stack	13.00	HSD 111.2 Ltr/Hr	1	TPM	150 Mg/Nm^3
						SO2	53.376 Kg/Day
S-3 to S-8	DG Set-1010 x 3 Nos	Acoustic Enclosure Stack	13.00	HSD 543 Ltr/Hr	1	TPM	150 Mg/Nm^3
						SO2	260.64 Kg/Day
S-9 to S-12	Paint Booth- 4 Nos.	Water Curtains for scrubbing	13.00	-	-	VoCs	-

Stack No.	Source	APC System provided/proposed	Stack Height(in mtr)	Type of Fuel	Sulphur Content(in %)	Pollutant	Standard
Vent Pipe-6 Nos.	Lube Oil System of Engine	Stack	5.00	HSD 40 Ltr/Hr	1	TPM	150 Mg/Nm^3
						SO2	19.2 Kg/Day
S-13 to S-18	Test Bed- 6 Nos.	Exhaust Silencer, Diffuser provided	13.00	HSD 100 Ltr/Hr	1	TPM	150 Mg/Nm^3
						SO2	48 Kg/Day

2. The Applicant shall provide Specific Air Pollution control equipments as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance / CREP guidelines.
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).

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 (Exp.)	2500000	15 days/extend	Towards compliance of consent conditions.	upto C to1stO	upto C to1stO

If the above Bank Guarantee is not submitted within stipulated period, then 12% interest will be levied as a penalty as per circular dtd 29/02/2024 No. BO/MPCB/AS(T)/Circular/B-240229FTS0122

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

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. Specific Conditions for storage, Handling and Disposal of Waste from Electrical & Electronic equipment (WEEE):
    1. **Collection of WEEE** - The applicant must provide appropriate and dedicated vehicles duly identified as per the norms for transportation of Hazardous Waste. The applicant shall obtain all the required permits for transportation of WEEE from competent authority. The applicant shall ensure the safe transport of the WEEE without any spillage during transportation.

       Storage for disassembled parts: The applicant must provide appropriate storage for disassembled spare parts from WEEE. Some spare parts (e.g. motors and compressors) will contain oil and/or other fluids. Such part must be appropriately segregated and stored in containers that are secured such that oil and other fluids cannot escape from them. These containers must be stored on an area with an area with an impermeable surface and a sealed drainage system.
    2. **Storage for other components and residues:**Other components and residues arising from the treatment of WEEE will need to be contained following their removal for disposal or recovery. Where they contain hazardous substances they should be stored on impermeable surface and in appropriate containers or bays with weatherproof covering. Containers should be clearly labelled to identify their contents and must be secured so that liquids, including rain water cannot enter them. Components should be segregated having regard to their eventual destinations and the compatibility of the component types. All batteries should be handled and stored having regard to the potential fire risk associated with team.
    3. **Balances :** WEEE Guidelines also requires that sites for handling of WEEE have “balances to measure the weight of the segregated waste’. The objective is to ensure that a record of weights can be maintained of WEEE entering a facility and components and materials leaving each site (together with their destinations). The nature of the weighing equipment should be appropriate for the type and quantity of WEEE being processed.

4. Plastic, which cannot be recycled and is hazardous in nature, is recommended to be land filled in nearby CHWTSDF.
5. Ferrous and nonferrous metal recycling facilities fall under the purview of existing environmental regulations for air, water, noise, land and soil pollution and generation of hazardous waste and the same should be followed.
6. CFCS should be either reused or incinerated in common hazardous waste Incineration facilities at CHWTSDF.
7. Waste Oil should be either reused or incinerated in common hazardous waste incineration facilities.
8. PCB's containing capacitors shall be incinerated in common hazardous waste incineration facilities at CHWTSDF.
9. Mercury recovery and lead recycling facilities from batteries fall under the Hazardous & Other Wastes (M & TM) Rules, 2016.
10. Existing environmental regulations for air; water; noise, land and soil pollution and generation of hazardous waste and the same should be followed. In case Mercury or lead recovery is very low, they can be temporarily stored at e-waste recycling facility and later disposed in TSDF.
11. The industry shall maintain records of the e-waste purchased, processed in Form-2 and shall file annual returns of its activities of previous year in Form-3 as per Rules 11(9) & 13(3)(vii) of the E-Waste(M) Rules, 2016; on or before 30th day of June of every year.

6. The Energy source for lighting purpose shall preferably be LED based
7. The PP shall harvest rainwater from roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial applications within the plant
8. Conditions for D.G. Set
   a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
   b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
   c) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper sitting and control measures.
   d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
   e) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.
   f) D.G. Set shall be operated only in case of power failure.
   g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
   h) The applicant shall comply with the notification of MoEFCC, India on Environment (Protection) second Amendment Rules vide GSR 371(E) dated 17.05.2002 and its amendments regarding noise limit for generator sets run with diesel.
9. The applicant shall maintain good housekeeping.

10. The non-hazardous solid waste arising in the factory premises, sweepings, etc. be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal of solid waste.
11. The applicant shall not change or alter the quantity, quality, the rate of discharge, temperature or the mode of the effluent/emissions or hazardous wastes or control equipments provided for without previous written permission of the Board. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.
12. The Board reserves the right to review, amend, suspend, revoke this consent and the same shall be binding upon you.
13. The industry shall submit quarterly statement in respect of industries obligation towards consent and pollution control compliance's duly supported with documentary evidences (format can downloaded from MPCB official site).
14. The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
15. The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification No. B-29016/20/90/PCI-L dated. 18.11.2009 as amended.
16. This consent should not be construed as exemption from obtaining necessary NOC/ permission from any other Government authorities.
17. 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.
18. You shall operate OCEMS installed for source emission round 'O' clock and transmit data online to CPCB and MPCB server. You shall also monitor effluent quality, stack emissions and ambient air quality monthly/quarterly. You shall conduct Dioxin Furan monitoring by third party NABL Accredited agency once in year and submit report to Sub Regional Officer.
19. You shall ensure collection, and segregation of BMW regularly to treat and dispose Off within 48 hrs from generation.
20. Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipments, the production process connected to it shall be stopped.
21. The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms and conditions of this consent.
22. The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the Hazardous and Other Wastes (M & TM) Rules 2016, which can be recycled /processed /reused /recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/reprocessed etc. should go for that purpose, in order to reduce load on incineration and landfill site/environment.
23. An inspection book shall be opened and made available to the Board’s officers during their visit to the applicant.

24. You shall not Rent, Lend, Sell, Transfer or Close Down the facility or otherwise transport the Bio Medical waste for any other purpose without obtaining prior written permission of the MPC Board.
25. Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
26. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
27. The industry should not cause any nuisance in surrounding area.
28. The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB (A) during day time and 70 dB (A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.
29. You shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the facility premises.
30. The applicant shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
31. 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 an extension or addition thereto
32. The applicant shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained.
33. The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a yearly statement by 30th September every year on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end.
34. 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.
35. 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 provisions of Rule 14 of the Environment (Protection) (second Amendment) Rules, 1992.
36. You should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly. You shall conduct Dioxin Furan monitoring by third party NABL Accredited agency once in every year and submit report to Sub Regional Officer.

37. 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).
38. The applicant shall provide facility for collection of environmental samples and samples of trade and 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.
39. You shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or 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.
40. You shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act, 1981 and Environmental Protection Act, 1986 and industry specific standard under EP Rules 1986 which are available on MPCB website (www.mpcb.gov.in).
41. You shall create the Environmental Cell by appointing an Environmental Engineer and Chemist for looking after day-to-day activities related to compliance of CCA.
42. You should comply with the Hazardous and Other Wastes (M & TM) Rules, 2016 , Bio Medical Waste Management Rules,2016 and submit the Annual Returns as per Rule 6(5) & 20(2) of Hazardous and Other Wastes (M & TM) Rules, 2016 for the preceding year in Form-IV by 30th June of every year

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This certificate is digitally & electronically signed.

सत्यमेव जयते

File No: SIA/MH/INFRA2/536493/2025

Government of India

Ministry of Environment, Forest and Climate Change

(Issued by the State Environment Impact Assessment Authority(SEIAA), MAHARASHTRA)

****

Date **04/11/2025**

To,

Makarand K Joshi
KIRLOSKAR OIL ENGINES LIMITED
Kirloskar Oil Engines Limited, Laxmanrao Kirloskar Road, Khadki, Pune-411003., Khadki, PUNE, MAHARASHTRA, 411003
koelparivesh@gmail.com

Subject: Grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 -regarding.

Sir/Madam,

This is in reference to your application submitted to SEIAA vide proposal number SIA/MH/INFRA2/536493/2025 dated 08/05/2025 for grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 and as amended thereof.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC25B3813MH5357324N
(ii) File No.	SIA/MH/INFRA2/536493/2025
(iii) Clearance Type	Fresh EC
(iv) Category	B1
(v) Project/Activity Included Schedule No.	8(b) Townships/ Area Development Projects / Rehabilitation Centres
(vii) Name of Project	Proposed Expansion of Industrial Shed Construction by Kirloskar Oil Engines Limited at Plot No. D-1, Five Star MIDC Kagal-Hatkanangale, A/p.-Talandage Tal. Hatkanangale, Dist. Kolhapur.
(viii) Name of Company/Organization	KIRLOSKAR OIL ENGINES LIMITED
(ix) Location of Project (District, State)	KOLHAPUR, MAHARASHTRA
(x) Issuing Authority	SEIAA
(xi) Applicability of General Conditions as per EIA Notification, 2006	No

Plot/Survey Khasra Nos.: Plot No. D1

3. In view of the particulars given in the Para 1 above, the project proposal interalia including Form-1(Part A, B and C)/ EIA & EMP Reports were submitted to the SEIAA for an appraisal by the SEIAA under the provision of EIA notification 2006 and its subsequent amendments.
4. The above-mentioned proposal has been considered by SEIAA in the meeting held on . The minutes of the meeting and all the project documents are available on PARIVESH portal which can be accessed from the PARIVESH portal by scanning the QR Code above or through the following web link click here.
5. The brief about configuration of products and byproducts as submitted by the Project Proponent in orm-1 (Part A, B and C)/ EIA & EMP Reports / presented during SEIAA are annexed to this EC as Annexure (1).
6. The SEIAA, in its meeting held on , based on information submitted viz: Form 1 (Part A, B and C), EIA/EMP report etc & clarifications provided by the project proponent and after detailed deliberations on all technical aspects and public hearing issues and compliance thereto furnished by the Project Proponent, recommended the proposal for grant of Environment Clearance under the provision of EIA Notification, 2006 and as amended thereof subject to compliance of Specific and Standard EC conditions as given in this letter.
7. The SEIAA has examined the proposal in accordance with the provisions contained in the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and based on the recommendations of the State Environment Impact AssessmentAuthority(SEIAA) Appraisal Committee hereby accords Environment Clearance to the instant proposal of M/s. Makarand K Joshi under the provisions of EIA Notification, 2006 and as amended thereof subject to compliance of the Specific and Standard EC conditions as given in Annexure (1)
8. The Ministry reserves the right to stipulate additional conditions, if found necessary.
9. The Environmental Clearance to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable, to the project.
10. The Project Proponent is under obligation to implement commitments made in the Environment Management Plan, which forms part of this EC.
11. General Instructions:

    (a) The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEF&CC/SEIAA website where it is displayed.
    (b) The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
    (c) The project proponent shall have a well laid down environmental policy duly approved by the Board of Directors (in case of Company) or competent authority, duly prescribing standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions.
    (d) Action plan for implementing EMP and environmental conditions along with responsibility matrix of the project proponent (during construction phase) and authorized entity mandated with compliance of conditions (during perational phase) shall be prepared. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Six monthly progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.
    (e) Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
    (f) The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
    (g) Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
12. This issues with the approval of the Competent Authority

Annexure 1

Specific EC Conditions for (Townships/ Area Development Projects / Rehabilitation Centres)

1. Specific

S. No	EC Conditions
1.1	1. PP to obtain IOD/IOA/Concession Document/Plan Approval or any other form of documents as applicable clarifying its conformity with local planning rules and provisions indicating all required RG area as per prevailing Hon'ble Supreme Court Order. PP to obtain all mandatory NOCs from the concerned planning authority and the planning authority shall not issue occupation certificate unless PP obtains the same. 2. PP to prepare and implement plan to make proposed project a plastic free zone. 3. PP to ensure to achieve the standard parameters of the treated sewage as per order issued by the Hon'ble National Green tribunal on 30.04.2019. PP to ensure that, the water proposed to be used for construction phase should not be drinking water. 4. PP and the planning authority shall ensure that, the construction and demolition waste (C and D waste) is collected and treated at designated places as per Construction and Demolition Waste Management Rules, 2016 amended from time to time. 5. PP to provide electric charging facility by providing charging points at suitable places as per Maharashtra Electric Vehicle Policy, 2021. 6. PP to ensure to achieve minimum 5% energy saving by using non-conventional energy source.

Annexure 2

Details of the Project

<table>
<tr><th>S. No.</th><th>Particulars</th><th>Details</th></tr>
<tr><td>a.</td><td>Details of the Project</td><td>Proposed Expansion of Industrial Shed Construction by Kirloskar Oil Engines Limited at Plot No. D-1, Five Star MIDC Kagal-Hatkanangale, A/p.-Talandage Tal. Hatkanangale, Dist. Kolhapur.</td></tr>
<tr><td>b.</td><td>Latitude and Longitude of the project site</td><td>16.60912746480265,74.36372563910346
16.61717012850508,74.37396290395233</td></tr>
<tr><td>c.</td><td>Land Requirement (in Ha) of the project or activity</td><td>
<table>
<tr><th>Nature of Land involved</th><th>Area in Ha</th></tr>
<tr><td>Non-Forest Land (A)</td><td>65.09</td></tr>
<tr><td>Forest Land (B)</td><td>0</td></tr>
<tr><td>Total Land (A+B)</td><td>65.09</td></tr>
</table>
</td></tr>
<tr><td>d.</td><td>Date of Public Consultation</td><td>Public consultation for the project was held on</td></tr>
<tr><td>e.</td><td>Rehabilitation and</td><td>NO</td></tr>
</table>

S. No.	Particulars	Details
	Resettlement (R&R) involvement	
f.	Project Cost (in lacs)	102030
g.	EMP Cost (in lacs)	105
h.	Employment Details	

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

No. SIA/MH/INFRA2/536493/2025
Environment & Climate
Change Department
Room No. 217, 2nd Floor,
Mantralaya, Mumbai- 400032.

To
M/s.Kirloskar Oil Engines Limited,
Plot No. D-1, Five Star MIDC Kagal-Hatkanangale,
A/p.-Talandage Tal. Hatkanangale, Dist. Kolhapur.

Subject : Environmental Clearance for Proposed Expansion of Industrial Shed Construction at Plot No. D-1, Five Star MIDC Kagal-Hatkanangale, A/p.-Talandage Tal. Hatkanangale, Dist. Kolhapur by M/s.Kirloskar Oil Engines Limited.

Reference : Application no. SIA/MH/INFRA2/536493/2025

This has reference to your communication on the above-mentioned subject. The proposal was considered by the SEAC-2 in its 229th meeting under screening category 8 (b) B1 as per EIA Notification, 2006 and recommend to SEIAA. Proposal then considered in 307th (Day-2) meeting of State Level Environment Impact Assessment Authority (SEIAA) held on 30th September, 2025.

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

1.	Proposal Number	SIA/MH/INFRA2/536493/2025	
2.	Name of Project	Proposed Expansion of Industrial Shed Construction By Kirloskar Oil Engines Limited at Plot No. D-1, Five Star MIDC Kagal-Hatkanangale, A/p. – Talandage Tal. Hatkanangale, Dist. Kolhapur.	
3.	Project category	Schedule 8 (b) Category B1	
4.	Type of Institution	Private Limited	
5.	Project Proponent	Name	Mr. Makarand K Joshi
		Regd. Office address	Kirloskar Oil Engines Limited, Laxmanrao Kirloskar Road, Khadki, Pune 411003
6.	Consultant	Envirosphere Consultant & Engineers LLP, NABET/EIA/23-26/IA 0130 valid up to 8th December, 2026	
7.	Applied for	Fresh EC	
8.	Details of previous EC	NA	
9.	Location of the project	Plot No. D-1, Five Star MIDC Kagal-Hatkanangale, Talandage Tal. Hatkanangale, Dist. Kolhapur.	
10.	Latitude and Longitude	Latitude: 16°36'57.38"N, Longitude: 74°22'10.61"E	
11.	Total Plot Area (m2)	6,50,900 sq. m	
12.	Deductions (m2)	32,686.22 sq. m.	
13.	Net Plot area (m2)	6,18,213.78 sq. m	
14.	Proposed FSI area (m2)	2,58,290.64 sq. m.	
15.	Proposed Non-FSI area (m2)		
16.	Proposed TBUA (m2)	2,58,290.64 Sq. m (Existing built-up area of 2,10,769.92 Sq. m. + proposed built-up area of 47,520.64 sq. m. Demolition area 1350.16 Sq. m)	

17.	TBUA (m2) approved by Planning Authority till date	As per sanctioned Plan Approval
18.	Ground Coverage (m2) & %	
19.	Total Project Cost (Rs.)	Existing Project Cost Rs. 900 Crores + Proposed Project Cost Rs. 500 Crores. = Total 1400 Cores.
20.	CER	N.A.
21.	Details of Building Configuration:	Reason for Modification / Change

Previous EC / Existing Building			Proposed Configuration			
Building name	Configuration	Height (m)	Building name	Configuration	Height (m)	
Main Plant	Ground	15.40	Main Plant	Ground	15.40	No Change
Eou Plant Building	Ground	15.40	Eou Plant Building	Ground	15.40	No Change
Office Building	Ground	9.3	Office Building	Ground	9.3	No Change
Scrap Yard	Ground	6.62	Scrap Yard	Ground	6.62	No Change
ETP	Ground		ETP	Ground		No Change
Scarp Yard (CHIP Bin)	Ground	6.62	Scarp Yard (CHIP Bin)	Ground	6.62	No Change
Material Gate	Ground	3.55	Material Gate	Ground	3.55	No Change
Security	Ground	3.55	Security	Ground	3.55	No Change
Main Security	Ground	3.55	Main Security	Ground	3.55	No Change
Utility Building	Ground	5.70	Utility Building	Ground	5.70	No Change
Utility Building EOU	Ground	5.70	Utility Building EOU	Ground	5.70	No Change
Fabrication shed	Ground	8.25	Fabrication shed	Ground	8.25	No Change
Pump House	Ground	5.95	Pump House	Ground	5.95	No Change
Power House	Ground	12.85	Power House	Ground	12.85	No Change
Meter Room	Ground	4.25	Meter Room	Ground	4.25	No Change
Time Office	Ground	3.7	Time Office	Ground	3.7	No Change
Parking Shed	Ground	3.7	Parking Shed	Ground	3.7	No Change
Dining	Ground	6.2	Dining	Ground	6.2	No Change
Kitchen	Ground	6.0	Kitchen	Ground	6.0	No Change
Admin Building	Ground	9.30	Admin Building	Ground	9.30	No Change
GenSet Utility Shed Extension	Ground	5.7	GenSet Utility Shed Extension	Ground	5.7	No Change
Paint, Thinner Store Electric Store	Ground	6.8	Paint, Thinner Store Electric Store	Ground	6.8	No Change
Thermic Fluid Heater Extension	Ground	15.40	Thermic Fluid Heater Extension	Ground	15.40	No Change

	Effluent Treatment Plant (Free of FSI)	Ground	3.7	Effluent Treatment Plant (Free of FSI)	Ground	3.7	No Change
	Genset Plant Expansion	Ground	15.40	Genset Plant Expansion	Ground	15.40	No Change
	LPG Shed	Ground	15.4m	LPG Shed	Ground	15.4m	No Change
	Engine Plant 2	Ground	13.2	Engine Plant 2	Ground	13.2	No Change
	Utility Building	Ground	6.8	Utility Building	Ground	6.8	No Change
	Coolant Preparation Shed	Ground	7.137	Coolant Preparation Shed	Ground	7.137	No Change
	Ground Water Tank	Ground	-	Ground Water Tank	Ground	-	No Change
	Underground Water Tank & Pump Room	Ground	5.50	Underground Water Tank & Pump Room	Ground	5.50	No Change
	Main Receiving Station (MRS) Panel Room	Ground	5.176	Main Receiving Station (MRS) Panel Room	Ground	5.176	No Change
	AHU Structures	Ground	5.2	AHU Structures	Ground	5.2	No Change
	Scrap Yard	Ground	6.62	Scrap Yard	Ground	6.62	No Change
	Weld Shop (CCCP)	Ground	8.25	Weld Shop (CCCP)	Ground	8.25	No Change
	Chimney Foundations	Ground	0.51	Chimney Foundations	Ground	0.51	No Change
	Cooling Tower	Ground	5.0	Cooling Tower	Ground	5.0	No Change
	Solar Installation - 1	Ground	2.0	Solar Installation - 1	Ground	2.0	No Change
	Solar Installation - 2	Ground	2.0	Solar Installation - 2	Ground	2.0	No Change
	WH-1	Ground	17.5	WH-1	Ground	17.5	No Change
	WH-2	Ground	17.5	WH-2	Ground	17.5	No Change
	Driver's Rest Room	Ground	4.9	Driver's Rest Room	Ground	4.9	No Change
	Forklift Shed	Ground	10.15	Forklift Shed	Ground	10.15	No Change
	Genset	Ground	15.4	Genset	Ground	15.4	No Change
	Pargola Shed	Ground	3.37	Pargola Shed	Ground	3.37	No Change
	Security Cabin	Ground	3.55	Security Cabin	Ground	3.55	No Change
	Extension of EP-1 on North Side	Ground	8.71	Extension of EP-1 on North Side	Ground	8.71	No Change
	Test Lab in ETP System	Ground	3.7	Test Lab in ETP System	Ground	3.7	No Change
				Proposed Building name	Configuration	Height (m)	
				F.G. Warehouse	Ground	14.60	New

					Structure
		Security & Truck Driver Room	Ground	3.75	New Structure
		R.M. Warehouse	Ground	14.60	New Structure
		HHP Shed	Ground	14.60	New Structure
		Lounge	Ground		New Structure
		Genset	Ground		New Structure
		Microgrid Pannel Room	Ground		New Structure
		Pantry	Ground		New Structure
		Reception	Ground		New Structure
		Chip Bin	Ground		New Structure
		MS Staircase Near Mp1	Ground		New Structure
		Cooling Tower Sl 90 At Ep2	Ground		New Structure
		DV Test Cells Cooling Tower At Ep2	Ground		New Structure
		R550 Cooling Tower At Ep	Ground		New Structure
		Pergola Shed	Ground		New Structure
		F.G. Warehouse	Ground		New Structure
		Security & Truck Driver Room	Ground		New Structure

22.	Total number of tenements	Residential Tenements: 0 tenements During Construction Manpower: 100 During Operation Manpower (Existing) 2085 During Operation Manpower (Proposed) 100 Total Manpower During Operation Phase: 2185				
23.	Water Budget	Dry Season (CMD)		Wet Season (CMD)		
		Fresh Water	425	Fresh Water	425	
		Recycled	395	Recycled	395	
		Landscape	337	Landscape	0	
		Flushing	43	Flushing	43	
		Total	775	Total	438	
		Waste water generation	135	Waste water generation	135	
24.	Water Storage Capacity for Firefighting / UGT (m3)	Domestic Water Tank (UGT 2 Nos.), 14m X 15m X 7m Capacity 1172 m3				
25.	Source of water	Construction phase- Tanker Water Operation phase- MIDC				
26.	Rainwater Harvesting (RWH)	Level of the Ground water table	Post monsoon water table: 10.0 m to 12.0 m BGL Pre monsoon water table: 12.0 m to 14.0 m BGL			
		Size and No. of RWH tank(s) and Quantity	Existing Pond 6 Total Capacity: 1000 KL			
		Quantity and size of recharge pits	Proposed Surface Recharge Pits: 6 Nos. Proposed Rooftop Recharge Pits: 20 Nos. Size 8.0 x 5.0 x 3.0m			

27.	Sewage and Waste water	Sewage generation in CMD	135 CMD	
		STP technology	MBBR	
		Capacity of STP (CMD)	422 CMD (Existing STP + ETP)	
28.	Solid Waste Management during Construction Phase	Type	Quantity (kg/d)	Treatment / disposal
		Dry waste	15	Through authorized agency
		Wet waste	10	Through authorized agency
		Construction waste	As per generation	Maximum reuse
29.	Solid Waste Management during Operation Phase	Type	Quantity (kg/d)	Treatment / disposal
		Dry waste	312	Through authorized agency
		Wet waste	208	In-situ Composting

Non-Hazardous waste (Existing)

Sr No	Type of Waste	Quantity	UoM	Treatment	Disposal
1	Black Ash from Plastic to fuel plant	20	Kg/Day	N.A.	Sale to brick manufacturers
2	Waste Welding Glass	200	Kg/M	N.A.	Sale to authorized vendor for recycle
3	Bio-sludge from STP	2000	Kg/M	N.A.	Used as manure within own premises
4	Canteen Waste	21000	Kg/M	Bio-gas plant, OWC followed by vermi-composting facility	Used in input of Biogas plant/as manure within own premises
5	Metal Scrap	480	MT/M	N.A.	Sale to authorized vendor
6	Garbage	94	MT/M	N.A.	Sale to authorized agency
7	Wooden scrap	156.26	MT/M	N.A.	Sale to authorized vendor
8	Rubber plastics	128	MT/M	Partly used as raw material to plastic fuel plant	Sale to authorized vendor/Plastic to fuel plant
9	Waste corrugated boxes	63	MT/M	N.A.	Sale to authorized vendor
10	Cotton waste	1.5	MT/M	N.A.	Sale to authorized vendor
11	Grinding Dust	26	MT/M	N.A.	Sale to authorized vendor/Recycler
12	Sheet Scrap	5	MT/M	N.A.	Sale to authorized vendor

Non-Hazardous waste (Proposed)

Sr No	Type of Waste	Quantity	UoM	Treatment	Disposal
1	Waste Welding Glass	300	Kg/M	Segregated	Sale to authorized vendor for recycle
2	Canteen Waste	25000	Kg/M	Bio-gas plant, OWC followed by vermicomposting	Used in input of Biogas plant/as manure within own premises
3	Waste Plastics	7500	Kg/M	Segregated	Sale to authorized vendor

4	Electrical cables/Assorted material scrap	2000	Kg/M	Segregated	Sale to authorized vendor
5	Metal Scrap	120	MT/M	Segregated	Sale to authorized vendor
6	Garbage	23.5	MT/M	Segregated	Sale to authorized agency
7	Wooden Scrap	39.06	MT/M	Segregated	Sale to authorized vendor
8	Rubber Plastics	32	MT/M	Partly used as raw material to plastic fuel plant	Sale to authorized vendor/Plastic to fuel plant
9	Waste corrugated boxes	15.75	MT/M	Segregated	Sale to authorized vendor
10	Cotton Waste	0.37	MT/M	Segregated	Sale to authorized vendor
11	Grinding Dust	6.5	MT/M	Segregated	Sale to authorized vendor/Recycler
12	Sheet Scrap	1.25	MT/M	Segregated	Sale to authorized vendor

Hazardous waste (Existing)

Sr No	Waste Type	Qty.	UoM	Treatment	Disposal
1	5.1 Used or spent oil	7.0	kld	Reprocessing	Sale to authorized party
2	Oil soaked cotton waste	8.0	MT/M	Incineration	CHWTSDF
3	Paint sludge	20.7	MT/M	Incineration	CHWTSDF
4	Chemical sludge from waste water treatment	46	MT/M	Landfill	CHWTSDF
5	Contaminated aromatic, aliphatic, or naphthenic solvents	0.2	MT/M	Incineration	CHWTSDF
6	Phosphate sludge	7600	Kg/M	Landfill	CHWTSDF
7	Empty barrels/liners contaminated with hazardous chemicals	2500	No/M	Reconditioning	Sale to authorised party
8	Waste epoxy powder	4.0	MT/M	Incineration	CHWTSDF
9	Empty barrels/liners contaminated with hazardous chemicals	1550	Kg/M	Reconditioning	CHWTSDF
10	Contaminated aerosol cans	900	No/M	Incineration/Other	CHWTSDF / Sale to authorised reprocessor
11	Waste rock wool / waste glass tissue paper	2000	Kg/M	Incineration	CHWTSDF
12	Waste softener resin	700	Kg/Annum	Incineration	CHWTSDF

13	Grinding wheels	3.0	MT/A	Incineration / Recycling	CHWTSDF / Authorised reprocessor
14	Filter papers, oil filters	3000	Kg/M	Incineration	CHWTSDF
15	Used tubelights	300	Kg/M	Incineration	CHWTSDF
16	Empty barrels/liners contaminated with hazardous chemicals	44000	No/M	Reconditioning	Sale to authorised party

Hazardous waste (Proposed)

Sr No	Waste Type	Qty.	UoM	Treatment	Disposal
1	Empty barrels/liners contaminated with hazardous chemicals	1100	No/M	Incineration / Recycle*	Sale to authorised party / CHWTSDF
2	Chemical sludge from waste water treatment	55	MT/M	Landfill	CHWTSDF
3	Process wastes, residues and sludges	25	MT/M	Incineration / Recycle*	Sale to authorised party / CHWTSDF
4	Contaminated cotton rags or other cleaning materials	15	MT/M	Incineration	Sale to authorised party / CHWTSDF
5	Grinding wheels	3.5	MT/A	Incineration / Recycle*	Sale to authorised party / CHWTSDF
6	Waste rock wool / waste glass tissue paper	2300	Kg/M	Incineration	CHWTSDF
7	Phosphate sludge	8000	Kg/M	Landfill / Recycle*	Sale to authorised party / CHWTSDF
8	Spent pickling liquor	1	MT/M	Landfill	CHWTSDF
9	Empty barrels/liners contaminated with hazardous chemicals	55500	No/M	Recycle*	Sale to authorised party / CHWTSDF
10	Spent ion exchange resin containing toxic metals	1000	Kg/Annum	Incineration	CHWTSDF
11	Process wastes, residues and sludges	5	MT/M	Incineration / Recycle*	Sale to authorised party / CHWTSDF
12	Contaminated aromatic, aliphatic or naphthenic solvents	0.5	KL/M	Incineration	CHWTSDF
13	Spent carbon or filter medium	500	Kg/M	Incineration	CHWTSDF
14	Used or spent oil	10	KL/D	Recycle	Sale to authorised party for recycle
15	Wastes or residues containing oil	3500	Kg/M	Incineration	CHWTSDF

Biomedical waste	0.07	Will be Handed over to authorized biomedical waste treatment facility
E-Waste	46.73	Will be Handed over to authorized vendor for refurbishment

30.	Green Belt Development	Total RG area (m2)		65530.75 sqm		
		Existing Trees on plot:		14584		
		Number of trees to be planted		400		
		Number of trees to be cut		0		
		Number of trees to be transplanted		0		
31.	Power requirement	Source of power supply		MSEDCL		
		During Construction Phase (Demand Load)		100KW		
		During Operation phase (Connected load)		9949 kVA		
		During Operation phase (Demand load)		10749 kVA		
		Transformer		3 MVA		
		DG set	22 Nos. of DG Sets: (Existing): 250 KVA x 1, 5625 KVA x 1, 600 KVA x 6, 500 KVA x 11 1010 KVA x 3 5 Nos. of DG Sets: (Proposed): 500 KVA x 2, 1010 KVA x 3			
		Fuel used		HSD		
32.	Details of Energy saving	Provision of daylighting., Use of LED light and LED flood lights, All cables will be insulated to avoid heating during use. This also indirectly reduces losses and imposes reliability., All pumps and motors will be energy efficient., Consumption of non-renewable fuel will be minimized. , Provision of solar Photovoltaic cells. 90% Energy saving achieve through Existing Solar Power Plant Project				
33.	Environmental Management plan budget during Construction phase	Activity		Capital Cost (₹)		Recurring Cost (₹)
		Demolition Work		₹3,00,000/-		₹52,000/-
		Site Development		₹50,000/-		₹1,20,000/-
		Occupational Health & Safety		Included above (PPEs reused)		₹1,80,000/-
		Transportation & Logistics		₹0 (existing logistics arrangements)		₹3,00,000/-
		Construction Waste Management		₹1,50,000/-		₹3,60,000/-
		Domestic Waste Management		₹1,00,000/-		₹2,40,000/-
		Corporate Environmental Responsibility (CER)		₹25,00,000 /-		₹0/-
		Green Belt Development		₹4,49,000 /-		₹3,00,000/-
		Total		35,49,000/-		15,52,000/-
34.	Environmental Management plan Budget during Operation phase	Component Details		Capital (L)		O&M (L/Y)
		Environment monitoring		₹. 16,00,000/-		₹. 1,50,000/-
		Water Consumption, Effluent, Wastewater Management Solid Waste Management		₹. 2,50,00,000/-		₹. 7,00,000/-
		Rainwater Harvesting		₹. 5,00,000/-		₹. 50,000/-
		Green Belt Development		-		₹. 18,36,000/-
		Energy Utilization		₹. 50,50,000/-		₹. 5,00,000/-
		Total		3,21,50,000/-		32,36,000/-
35.	Traffic Management	Type	Required as per DCR	Actual Provided	Area / parking (m2)	Total parking area (m2): 78,108.00
		4-Wheeler	543	543	12.5	
		2-Wheeler	3065	3065	2	
		Truck	75	75	12.5	
36.	Details of Court cases / litigations w.r.t. the project and project location if any					NA

3. Proposal was considered by SEIAA in its 307th (Day-2) meeting held on 30th September, 2025 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 obtain IOD/IOA/Concession Document/Plan Approval or any other form of documents as applicable clarifying its conformity with local planning rules and provisions indicating all required RG area as per prevailing Hon'ble Supreme Court Order. PP to obtain all mandatory NOCs from the concerned planning authority and the planning authority shall not issue occupation certificate unless PP obtains the same.
2. PP to prepare and implement plan to make proposed project a plastic free zone.
3. PP to ensure to achieve the standard parameters of the treated sewage as per order issued by the Hon'ble National Green tribunal on 30.04.2019. PP to ensure that, the water proposed to be used for construction phase should not be drinking water.
4. PP and the planning authority shall ensure that, the construction and demolition waste (C and D waste) is collected and treated at designated places as per Construction and Demolition Waste Management Rules, 2016 amended from time to time.
5. PP to provide electric charging facility by providing charging points at suitable places as per Maharashtra Electric Vehicle Policy, 2021.
6. PP to ensure to achieve minimum 5% energy saving by using non-conventional energy source.

B. SEIAA Conditions-

1. PP has provided mandatory RG area of 65530.75 m2 on mother earth without any construction. 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. In view of Maharashtra Electric Vehicle Policy, 2025, PP to provide electric vehicle D. C. Charger for 20 % of total parking provided, the number of D. C. Chargers should be worked out as provided in Niti Ayog Handbook of EV charging infrastructure implementation.
5. 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.
6. SEIAA after deliberation decided to grant EC for-FSI-2,58,290.64 m2, Non FSI- Nil-m2, total BUA-2,58,290.64 -m2. (Plan approval No. DB.KH/FS/D-1/DIS/105894 of 2025 dated 21.04.2025).

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 give100 % 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

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. SO2, NOx (ambient levels as well as stack emissions) or critical sector parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.

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.

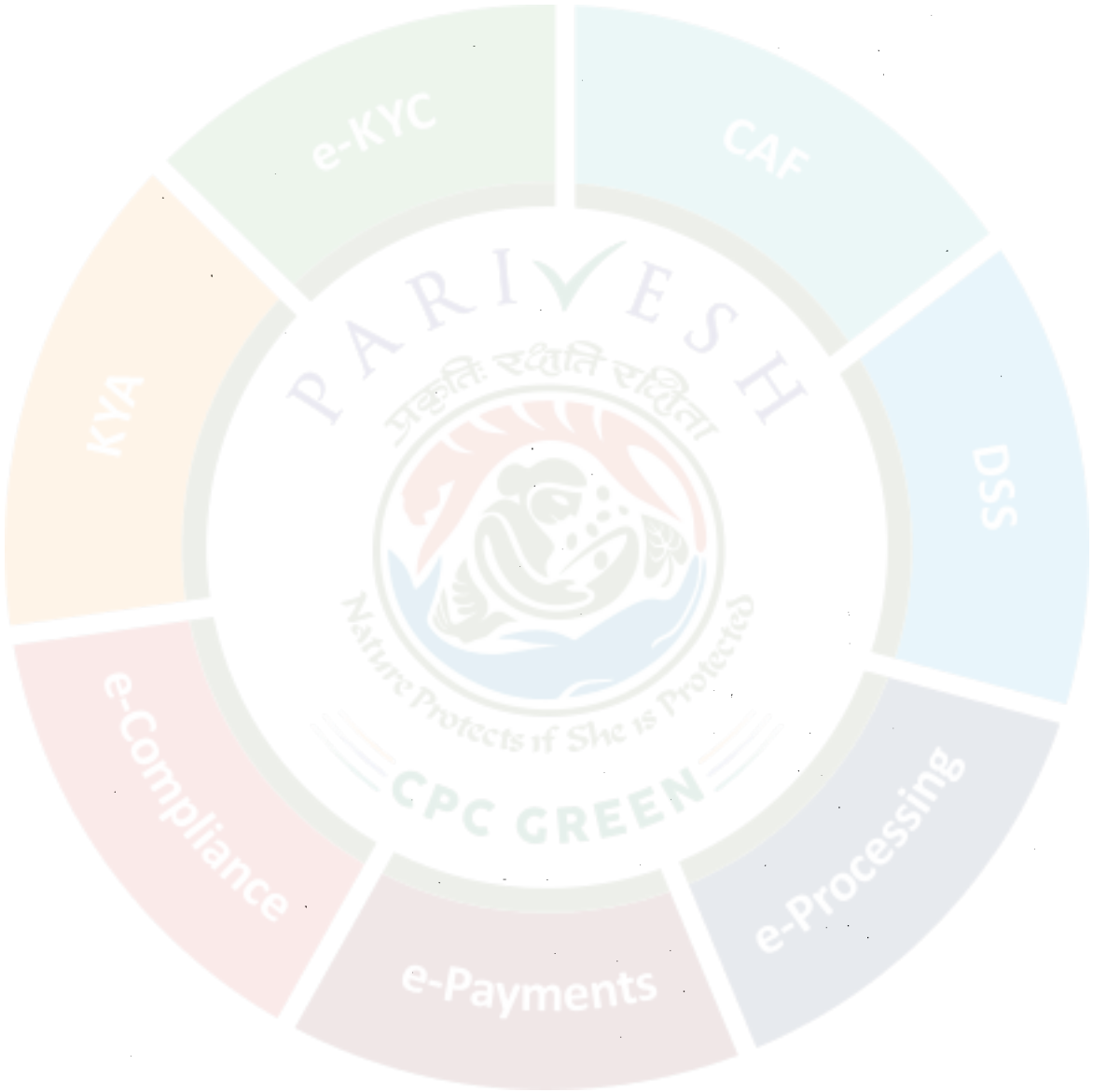
8. The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its 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, 1st Floor, D-Wing, Opposite Council Hall, Pune, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

Jayashree Bhoj
(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, Kolhapur.
6. Regional Officer, Maharashtra Pollution Control Board, Kolhapur.


e-KYC
CAF
DSS
e-Processing
e-Payments
e-Compliance
KYA
PARIVESH
CPC GREEN
Nature Protects if She is Protected

GOOGLE IMGERY SHOWING NO PROPOSED EXPANSION WORK INITIATED PRIOR TO EC I.E. 04/11/2025

Half Yearly Compliance Report
2026
01 Jun(01 Oct - 31 Mar)

Acknowledgement

Proposal Name	Proposed Expansion of Industrial Shed Construction by Kirloskar Oil Engines Limited at Plot No. D-1, Five Star MIDC Kagal-Hatkanangale, A/p.-Talandage Tal. Hatkanangale, Dist. Kolhapur.
Name of Entity / Corporate Office	KIRLOSKAR OIL ENGINES LIMITED
Village(s)	Sangaon Kasaba
District	KOLHAPUR

Proposal No.	SIA/MH/INFRA2/536493/2025
Plot / Survey / Khasra No.	Plot No. D1
State	MAHARASHTRA
MoEF File No.	

Category	INFRA-2
Sub-District	Kagal
Entity's PAN	*****5714H
Entity name as per PAN	KIRLOSKAR OIL ENGINES LIMITED

Compliance Reporting Details

Reporting Year 2026

Remarks (if any)

Reporting Period 01 Jun(01 Oct - 31 Mar)

Details of Production and Project Area

Name of Entity / Corporate Office KIRLOSKAR OIL ENGINES LIMITED

	Project Area as per EC Granted	Actual Project Area in Possession
Private	65.09	65.09
Revenue Land	0	0
Forest	0	0
Others	N/A	N/A
Total	65.09	65.09

Others Area

Sr. no	Other Name	Area Granted	Area Actual

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	It is Building Construction Project	Others:Sq. mtr.	N/A	2,58,290.64 Sq. M.	null	

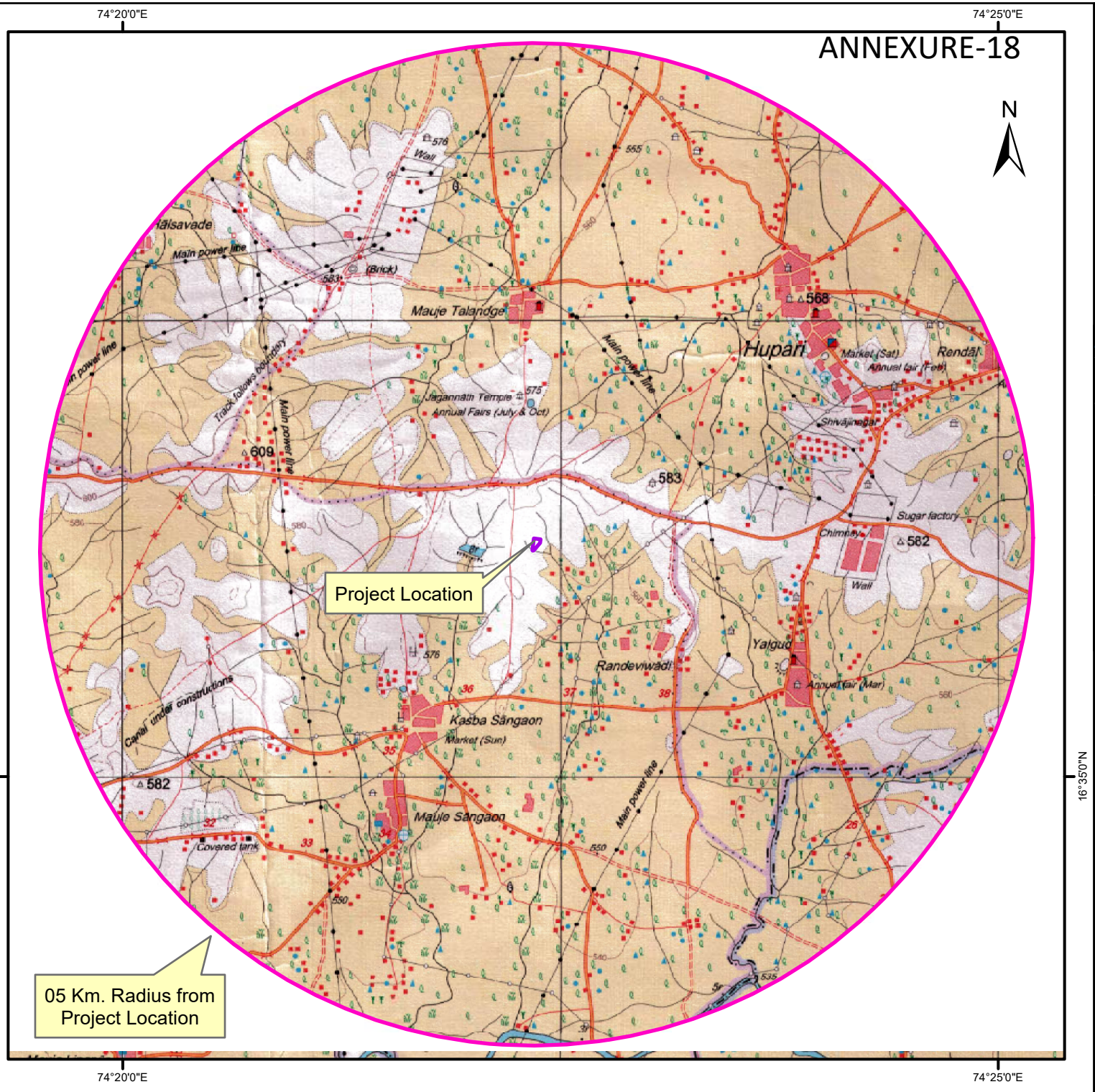
Conditions

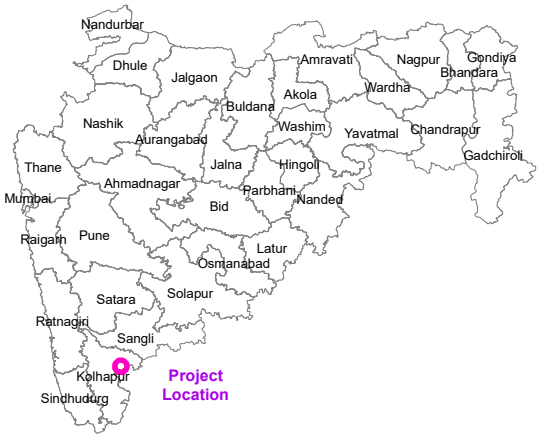
Visit Remarks

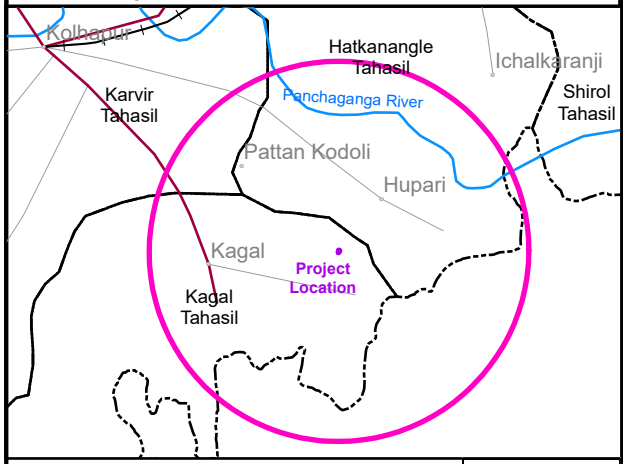
Last Site Visit Report Date:	N/A
Additional Remarks:	

Note: This acknowledgement is as per the details submitted by project proponent. In no way is this document to be considered as conclusion on any action on the compliance of the project. This is strictly for the project proponent's reference purpose.

ANNEXURE-18







Ref:
SOI Toposheet No.
1. 47 L /06

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47L/6

Project	**Proposed Biomedical Waste Treatment Plant,** Five Star Kagal Hatkanangale Industrial Area, Kolhapur,416001
Name of Client	
Title	**05 Km. Radius AreaToposheet Map**

ENVIROSPHERE CONSULTANT & ENGINEERS LLP

Envirosphere Consultant & Engineers

Sr. No. 62/2/1 Shravi Empire, Vinayak Nagar, Pimple Nilakh, Pimpri Chinchwad, Pune 411027.

Email: ashvin.esce@gmail.com Phone: +91-9860220550

पुण्य नगरी

जाहीर नोटीस

सर्वसामान्य जनतेस सूचित करण्यात येते की भारत सरकार, पर्यावरण, वन व हवामान बदल मंत्रालय, राज्यस्तरीय पर्यावरणीय परिणाम मूल्यांकन प्राधिकरण **(SEIAA)** - महाराष्ट्र यांचेमार्फत 'किर्लोस्कर ऑइल इंजिन्स लिमिटेड'द्वारे प्रस्तावित औद्योगिक शेडचा विस्तार प्रकल्प संदर्भात पर्यावरणीय मंजुरी प्रदान करण्यात आलेली आहे. सदर मंजुरी **EC** संदर्भ क्रमांक **EC25B3813MH5357324N** अन्वये दिनांक ०४ नोव्हेंबर २०२५ रोजी किर्लोस्कर ऑइल इंजिन्स लिमिटेड यांना प्रदान करण्यात आलेली असून हा प्रकल्प प्लॉट क्र. डी-१, फाईव्ह स्टार एमआयडीसी, तळंदगे, ता. हातकणंगले, जि. कोल्हापूर, महाराष्ट्र येथे प्रस्तावित आहे. सदर मंजुरीची अधिकृत प्रत खालील कार्यालयांमध्ये उपलब्ध आहे -

१) अध्यक्ष, राज्यस्तरीय पर्यावरणीय परिणाम मूल्यांकन प्राधिकरण **(SEIAA)**, महाराष्ट्र, मुंबई
२) सचिव, पर्यावरण, वन व हवामान बदल मंत्रालय; **IA** विभाग, पर्यावरण मंत्रालय, नवी दिल्ली
३) सदस्य सचिव, महाराष्ट्र प्रदूषण नियंत्रण मंडळ, मुंबई
४) प्रादेशिक कार्यालय, पर्यावरण, वन व हवामान बदल मंत्रालय, नागपूर
५) जिल्हाधिकारी, कोल्हापूर
६) आयुक्त, छत्रपती संभाजीनगर महानगरपालिका
७) प्रादेशिक अधिकारी, महाराष्ट्र प्रदूषण नियंत्रण मंडळ, कोल्हापूर

तसेच सदर मंजुरीची नोंद पर्यावरण, वन व हवामान बदल मंत्रालयाच्या अधिकृत संकेतस्थळावर https://parivesh.nic.in/ येथे उपलब्ध आहे.

Kolhapur Edition
Nov 8, 2025 Page No. 07
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TIMES NATION

killed in
rash in UP

Top court dismisses plea against demolition of mosque in Ujjain

New Delhi: The Supreme Court on Friday dismissed a plea challenging the Madhya Pradesh High Court's order refusing to direct the reconstruction of the Takiya Masjid in Ujjain, which was demolished in January after land acquisition for expanding the parking area of the Mahakal Lok Parisar.

A bench of Justices Vikram Nath and Sandeep Mehta heard the plea against the October 7 order of the HC division bench, which had upheld a single judge's decision rejecting the petition seeking the mosque's reconstruction.

The petitioners' counsel told the apex court that the 300-year-old mosque, declared a Waqf property in 2000, was demolished to make way for parking space.

"It was required under the statutory scheme, compensation paid. You filed a writ petition challenging the same acquisition which was dismissed as withdrawn," the bench observed.

When the counsel argued, "you need parking, for some other religious place and you demolish the mosque and say you do not have a right," the court replied, "You take note, nothing can be done. Dismissed."

PUBLIC NOTICE

This is to inform the General Public that the Government of India, Department of Ministry of Environment, Forest and Climate Change, State Level Environment Impact Assessment Authority (SEIAA) - Maharashtra has granted Environmental Clearance vide EC identification No. **EC25B3813MH5357324N** dated **4th November, 2025** for **Proposed Expansion of Industrial Shed Construction by Kirloskar Oil Engines Limited at Plot No. D-1, Five Star MIDC Kagal Hatkanangale, A/p. Talanage, Tal. Hatkanangale, Dist. Kolhapur.**

The copy of the clearance letter is available with

1. The Chairman, SEIAA (Maharashtra), Mumbai;
2. Secretary MoEF&CC; IA-Division MoEF&CC;
3. Member Secretory, MPCB, Mumbai;
4. Regional Office MoEF&CC, Nagpur;
5. District Collector, Kolhapur;
6. Regional Officer, Maharashtra Pollution Control Board, Kolhapur.

May also be seen at offical website of Ministry of Environment, Forest and Climate Changes at **https://parivesh.nic.in/**

KERALA MEDICAL SERVICES CORPORATION LTD

Sl. No.	Name of Item	Tender Qty	Last Date & time of Uploading of tender	Date & time of Technical Bid opening
1.	RECOMBINANT HUMAN GROWTH HORMONE	72,000 I.U.	20.11.2025 5.00 pm	22.11.2025 11.00 am

Tender Documents can be downloaded from the website www.etenders.kerala.gov.in

पंजाब नेशनल बैंक punjab national bank

Circle Office - Kolhapur

1182/17, Ground Floor, Rajarampuri, 4th Lane, Tarala, Kolhapur-416008

PREMISES REQUIRED

Punjab National Bank requires suitable ready built and well constructed hall type building for Branch having Carpet Area including space for ATM **(1400 sq.ft. to 1600 sq.ft.)** on lease/rental basis. Premises should be preferably on Ground Floor and if on first floor with lift facility at **Udgir City, Dist. Latur.** Premises offered should have clearance certificates from statutory authorities. Interested owners/ registered Power of attorney Holders of such premises in the desired locality, who are ready to lease out their readily available premises on long term lease basis preferably for **15 years** or more may send their offers in the prescribed format available on Bank's website www.pnbindia.in or the same may be obtained from the above

यूको बैंक UCO BANK

[Rule 8(1)]

POSSESSION NOTICE

(for Immovable Property)