ENVIRONMENTAL CLEARANCE

PARIVESH

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

Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

To,

The Executive Director

ATHANI SUGAR LIMITED

Vishnunagar post Navalihal 591 234, tehsil Athani Dist Belgaum Karnataka,,Belgaum,Karnataka-591234

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

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the Ministry vide proposal number IA/MH/IND2/425783/2023 dated 25 Aug 2023. The particulars of the environmental clearance granted to the project are as below.

1.	**EC Identification No.**	**EC24A022MH165646**
2.	**File No.**	J-11011/372/2016-IA-II(I)
3.	**Project Type**	Expansion
4.	**Category**	A
5.	**Project/Activity including Schedule No.**	5(g) Distilleries
6.	**Name of Project**	Proposed expansion of existing molasses based Distillery Unit from 90 KLPD to 180 KLPD (Additional 90 KLPD under Ethanol Blending Programme) by M/s Athani Sugars Limited at Gat No. 976, 977, 986, 987, 988, 989, 991, 993, 998 & 990 Village Sonawade, Taluka- Shahuwadi, District- Kolhapur Maharashtra 416213)
7.	**Name of Company/Organization**	ATHANI SUGAR LIMITED
8.	**Location of Project**	Maharashtra
9.	**TOR Date**	N/A

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

Date: 06/06/2024

(e-signed)
Dr Vimal Kumar Hatwal
Scientist E
IA - (Industrial Projects - 2 sector)

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

This is a computer generated cover page.

This has reference to your online proposal no. IA/MH/IND2/425783/2023 dated 25th August, 2023 for environmental clearance to the above-mentioned project.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal seeking environmental clearance for expansion of existing distillery unit from 90 KLPD to 180 KLPD, located at 976, 977, 986, 987, 988, 989, 991, 993, 998 & 990 Village Sonawade, Taluka- Shahuwadi, District- Kolhapur 416213 Maharashtra by M/s. Athani Sugars Ltd.

3. As per EIA Notification 2006 (Schedule 5 (g) Category A); however, as per in the MoEFCC Notification S.O. 345(E), dated the 17th January, 2019, notification number S.O. 750(E), dated the 17th February, 2020, S.O. 980 (E) dated 02nd March, 2021 & S. No. 2339(E) 16th June, 2021, a special provision in the EIA Notification, 2006 "Expansion of sugar manufacturing units or distilleries for production of ethanol, having Prior Environment Clearance (EC) for existing unit, to be used completely for Ethanol Blended Petrol (EBP) Programme only, as per self-certification in form of an affidavit by the Project Proponent, shall be appraised as category 'B2' projects.

4. The details of products and capacity as under:

S.NO.	Name of Unit	Name of The Product/By-Product	Existing Production Capacity	Additional Production Capacity	Total Production Capacity
1.	Distillery (Molasses)	Ethanol	90 KLPD	90 KLPD	180 KLPD
2.	Fermentation Unit	Carbon Di-oxide	70 TPD	70 TPD	140 TPD
3	Power		4.4 MW		4.4 MW
4	Fusel Oil		0.135	0.135	0.27 KLD

5. Ministry has issued Environmental Clearance to the existing industry for a capacity of 90 KLPD vide file No. F. No. J-11011/372/2016-IA-II (I) dated 29th November 2017, Certified Compliance report of existing EC has been obtained from Integrated Regional Office, MoEFCC, Nagpur vide file No.EC 683/RON/2017-NGP/11869 dated 12.07.2023. PP has submitted the copy of CCR of sugar unit from SPCB. CTO renewal issued on 4.10.2022 by MPCB. EAC was satisfied with response of PP.

6. Standard ToR and Public Hearing is not applicable as the project falls under category B2 as per OM dated 16th June, 2021. It was informed that there is no litigation pending against the project.

7. Total plant area after expansion will be 7.66 Ha (existing plant area 7.66 Ha) which is under possession of the company and converted to industrial use for 976, 977, 986, 987, 988, 989, 991, 993, 998 & 990. No additional land will be acquired for the expansion project as the same will be done within existing plant premises. Out of the total plant area 3.54 Hectares i.e. 46.21 % of the total plant area will be developed under greenbelt & plantation and same will be maintained in and around plant premises. The estimated project cost is Rs. 154 Crores. Capital cost of EMP would be Rs. 8.6 Crores and recurring cost for EMP would be Rs. 0.43 Cr per annum. Industry proposes to allocate Rs. 2.0 Crores towards extended EMP (Corporate Environment Responsibility). Total Employment after expansion will be 100 persons as direct & indirect.

8. There are No national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors and Protected Forest etc. within 10 km distance. Reserve Forest:

i. Reserved Forest Ambarde is @ 6.20 km towards West Direction from Project Site.
ii. Reserved Forest Shirale is @ 8.42km km towards West Direction from Project Site
iii. Reserved Forest Parali is @ 8 km towards South West D i r e c t i o n from Project Site.
iv. Reserved Forest Kolgaon is @ 8.82 km towards W e s t D i r e c t i o n from Project Site.
v. Reserved Forest Shirgaon is @ 7.59 km towards North West Direction from Project Site.
vi. Reserved Forest Salshi is @ 2.11 km towards South East Direction from Project Site.
vii. Reserved Forest Parkhandle is @ 3.13 km towards West Direction from Project Site.
viii. Protected Forest Kaneri is @ 7.45 towards South Direction km from Project Site.
ix. Reserved Forest Ghungur is @ 6.32 km towards South West Direction from Project Site.
x. Protected Forest Thergaon is @ 8.11km towards North East Direction from Project Site.
xi. Protected Forest Injole is @ 7.11km towards South East Direction from Project Site.

xii. Protected Forest Kotoli is @ 9.51 km towards South East Direction from Project Site.
xiii. Protected Forest Kaneri is @ 7.45 km towards South Direction from Project Site.
xiv. Protected Forest Badewadi is @ 6.63 km towards South East Direction from Project Site.
xv. Protected Forest Bandivade is @ 6.23 km towards South East Direction from Project Site.

Water bodies:

I. Talab is present at a distance of 1.32 km in NE direction from project site.
II. Adjacent Nalla is passing from outside of the plot boundary in East direction.
III. Kadavi River is present at a distance of 3.85 km in NE direction from Project site.

9. AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 1.44 µg/m^3, 1.85 µg/m^3, and 1.43 µg/m^3 with respect to PM_{10}, SO_2 and NO_X. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

10. Total fresh water requirement after expansion will be for distillery 619.88 CMD, which will met from Kadavi River. NOC has been obtained by Irrigation Department, Kolhapur Dated14.07.2021. Existing effluent generation is 829.725 CMD from distillery which is treated through Condensate Polishing Unit (capacity in 1200 CMD). Proposed effluent generation will be 829.725CMD from Distillery unit will be treated through existing Condensate Polishing Unit (1200 CMD capacity). In molasses-based operation, spent wash generated from analyzer Colum during distillation will be concentrated in integrated evaporation system followed by Multi Effect Evaporator and concentrated spent wash will be burnt in incineration boiler. The plant is being based on Zero liquid Discharge System and treated effluent is not being discharged outside the factory premises and same will followed for expansion activity.

11. Total power requirement of distillery after expansion will be 4.4 MW which will be sourced from existing TG Installed. Existing Distillery has 35 TPH Bagasse / Conc. Spent Wash fired boiler APCE 99.99% ESP followed by FGD with stack height of 80 m for controlling the particulate matter within the statutory limit of 50 mg/Nm^3 and Industry has 750 KVA DG sets which will be used as standby during power failure and stack height has provided as per CPCB norms to the existing DG sets.

12. Details of Process emissions generation and its management:

- APCE 99.99% ESP followed by FGD with stack height of 80 m is installed for controlling the particulate emissions within the statutory limit of 50 mg/Nm^3.
- Online Continuous Emission Monitoring System is installed with the stack and data will be transmitted to CPCB/SPCB servers.
- CO_2 (140TPD) generated during the fermentation process will be collected by utilizing CO_2 scrubbers and it shall be sold to authorized vendors/collected in installed bottling plant.

13. Details of solid waste/Hazardous waste generation and its management:

- Concentrated spent wash (237.4 m3/day) is being/will be burnt in incineration boiler.
- Boiler ash (44 TPD) will be used in-house brick manufacturing.
- CPU sludge (4 TPD) from distillery unit will be used as manure.
- Molasses (27000 TPD) will be stored and used in distillery as raw material (during off-season).

14. As per Notification S.O 2339(E), dated 16th June, 2021, PP has submitted self-certification in the form of notarized affidavit declaring that the proposed expansion capacity of 90 KLPD for manufacturing fuel ethanol only.

15. During deliberations, EAC discussed following issues:

- EAC suggested to increase the budget allocated to extended EMP to at least Rs. 2.00 Crore and to complete all the activities proposed in extended EMP before commissioning of the plant. PP has revised the the budget of CER to Rs. 2.00 Crores to complete activities proposed within 3 years.
- PP shall install a brick manufacturing plant within plant premises for utilization of fly ash. PP submitted an undertaking for the same.

The committee was satisfied with the response provided by PP on above information. Further, Committee desired to submit the above information in writing. Accordingly, PP has submitted the desired information and EAC found the information/commitments satisfactory.

16. The proposal was considered by the EAC (Meeting ID: IA/IND2/13589/29/02/2024) held on 29th February, 2024 in the Ministry, wherein the project proponent and the accredited Consultant M/s. Mantras Green Resources Ltd. (NABET certificate No. NABET/EIA/2326/RA0286 and validity 6th January 2026), presented the case. The Committee **recommended** the project for

grant of environmental clearance.

17. The EAC, constituted under the provision of the EIA Notification, 2006 and comprising of Experts Members/domain experts in various fields, have examined the proposal submitted by the Project Proponent in desired form along with the EMP report prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent. The EAC noted that the Project Proponent has given undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the report. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

18. The Committee noted that the EMP report is in compliance of the PFR. The Committee deliberated on the CER plan and found to be addressing the issues in the study area. The EAC has deliberated the proposal and has made due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC have found the proposal in order and have **recommended** for grant of environmental clearance.

19. The environmental clearance granted to the project/activity is strictly under the provisions of the EIA Notification 2006 and its amendments. It does not tantamount/construe to approvals/consent/ permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

20. Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), Ministry of Environment, Forest and Climate Change hereby accords environmental clearance for **Proposed expansion of existing Molasses based distillery unit from 90 KLPD to 180 KLPD (Additional 90 KLPD) capacity, Under Ethanol Blending Programme (EBP) at Gat No. 976, 977, 986, 987, 988, 989, 991, 993, 998 & 990 Village Sonawade, Taluka- Shahuwadi, District- Kolhapur Maharashtra by M/s. Athani Sugar Ltd. (ASL),** under the provisions of the EIA Notification, 2006, and the amendments therein, subject to compliance of the terms and conditions as under:-

A. Specific Condition:

1. As per the Notification S.O. 2339(E), dated 16th June, 2021, project falls in category B2 and the proposed expansion capacity of 90 KLPD shall only be used for fuel ethanol manufacturing as per self-certification in form of a notarized affidavit by the Project Proponent. Provided that subsequently if it is found that the ethanol, produced based on the EC granted as per this dispensation, is not being used completely for EBP Programme, or if ethanol is not being produced, or if the said distillery is not fulfilling the requirements based on which the project has been appraised as category B2 project, the EC shall stand cancelled.

2. The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented (Annexure - I).

3. EC granted for a project on the basis of the submitted documents shall become invalid in case the actual land for the project site turns out to be different from the land considered at the time of appraisal of project. Conversion of land use (CLU) certificate shall be obtained before start of construction activities.

4. NOC from the Concerned Local authority shall be obtained before start of the construction of plant and drawing water from Surface Water. State Pollution Control Board shall not issue the Consent to Operate (CTO) under Air (Prevention and Control of Pollution) Act and Water (Prevention and Control of Pollution) Act till the project proponent shall obtain such permission. Ground water shall not be used for plant operations.

5. Total Fresh water requirement shall not exceed 619.88 m^3/day which will be met from Kadavi River. No ground water recharge shall be permitted within the premises. Industry shall construct a rain water storage pond of 60 days capacity and the accumulated water to be used as fresh water thereby reducing fresh water consumption.

6. The spent wash form molasses-based distillery shall be concentrated in MEE and concentrated spent wash shall be incinerated in the incineration boiler. Other lean effluents Spent lees, MEE Condensates and utility effluents shall be treated in the condensate polishing unit (CPU) comprising of three stage RO. No wastewater or treated water

from integrated unit of sugar mill and distillery shall be discharged outside the premises and Zero Liquid Discharge shall be maintained for all the units namely sugar, Distillery and Cogen Power Plant. STP shall be installed to treat sewage generated from factory premises.

7. Adequate numbers of ground water quality monitoring stations by providing piezometers around the project area shall be set up. Sampling and trend analysis monitoring must be conducted on monthly basis and report submitted to SPCB and RO, MOEFCC. The ground water quality monitoring for pH, BOD, COD, Chloride, Sulphate and Total Dissolve Solids shall be monitored and report submitted to the Ministry's Regional Office.

8. APCE ESP (5 fields) followed by FGD with 80 meters high stack shall be installed with 35 TPH Bagasse/ Conc. Spent Wash fired boiler for controlling the particulate matter emissions within the statutory limit of 50 mg/Nm^3. SO_2 and NO_x emissions shall be less than 100 mg/Nm^3. At no time, the emission levels shall exceed the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Performance assessment of pollution control devices/ systems will be conducted annually.

9. Boiler ash (44 TPD) will be used for brick manufacturing in the proposed brick manufacturing plant inside the plant premises. PP shall use Bagasse/ Conc. Spent Wash as fuel for the proposed boiler. PP shall install 15% of the total power requirement in the form of solar power within plant premises.

10. CO_2 (140 TPD) generated during the fermentation process will be collected by utilizing CO_2 scrubbers and it shall be sold to authorized vendors/collected in installed bottling plant.

11. PP shall allocate at least Rs. 0.10 Crore as capital expenditure and Rs. 0.01 Crore per annum as operational expenditure for Occupational Health Safety. Occupational Health Centre for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.

12. Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees.

13. The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms. PESO certificate shall be obtained. Location of ethanol storage tanks shall be placed in such a way that in the event of any fire, accident, explosion or any unforeseen conditions the impact of such event should not go beyond the boundary of the plant i.e. the risk should be tolerable (acceptable) at the boundary.

14. Company shall maintain an Emergency Response Decision support system in such a way so that identification of the detector's network for the location of the leak source and the probable leaked quantity in real-time, followed by modelling of the dispersion of the plume and consequences as forecast is done in advance and thus, no leak accident may go unattended. Accordingly, Risk Mitigation plan shall be in place.

15. Company shall determine the distance of fire hydrant while finalizing its location from ethanol storage tanks or any other hazardous storage substance shall be based on dispersion of Thermal Radiation so that during any unforeseen situation fire hydrant is always available to operate manually.

16. Process organic residue and spent carbon, if any, shall be sent to Cement and other suitable industries for its incinerations. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF.

17. The company shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapour recovery system. (f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.

18. The green belt of at least 5-10 m width shall be developed in nearly 3.54 hectares i.e., 46.21 % of the total project area with tree density @ 2500 trees per hectares, mainly along the plant periphery. PP shall also develop 10.0m wide green plant along both sides of the road Indigenous species shall only be developed as part of greenbelt and non-indigenous / alien species shall be replaced with native species. No invasive or alien or non-native tree species shall be selected for plantation. PP shall develop at least 20 variety of species as a part of

greenbelt. Saplings 4-6 feet high shall be planted. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department and native species shall be developed. Records of tree canopy shall be monitored through remote sensing map. Greenbelt development shall be completed before commissioning of the plant.

19. PP proposed to allocate Rs. 2.0 Crores towards Extended EMP (CER) which shall be spent as submitted in CER plan (Annexure - II). Further, all the proposed activities under CER shall be completed before the commissioning of the plant in consultation with District Administration.

20. There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products and no parking to be allowed outside on public places. At least 15% of total project area shall be allotted solely for parking purposes with facilities like rest rooms etc. Parking of vehicles along the road is not permitted.

21. Storage of raw materials shall be either in silos or in covered areas to prevent dust pollution and other fugitive emissions. All stockpiles should be constructed over impervious soil and garland drains with catch pits to trap runoff material shall be provided. Biomass shall be stored in covered sheds and wind breaking walls/curtains shall be provided around biomass storage area to prevent its suspension during high wind speed. All Internal roads shall be paved. Industrial vacuum cleaner shall be provided to sweep the internal roads. The Air Pollution Control System shall be interlocked with process plant/machinery for shutdown in case of operational failure of Air Pollution Control Equipment.

22. Continuous online (24x7) monitoring system for stack emissions/effluent shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.

23. A separate Environmental Management Cell (having qualified person with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions. EMC head shall report directly to Head of Organization/ Director/CEO as per company hierarchy.

24. PP shall sensitize and create awareness among the people working within the project area as well as its surrounding area on the ban of Single Use Plastic in order to ensure the compliance of Notification published by MOEFCC on 12th August, 2021. A report along with photographs on the measures taken shall also be included in the six-monthly compliance report being submitted to concerned authority.

B. General Condition:

(i) No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.

(ii) The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.

(iii) The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).

(iv) The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CER activities shall be undertaken by involving local villages and administration and shall be implemented. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.

(v) The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment

management/ pollution control measures shall not be diverted for any other purpose.

(vi) A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.

(vii) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.

(viii) The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted 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 environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.

(ix) The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry and at https://parivesh.nic.in/. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.

(x) The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.

(xi) This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.

21. The Ministry reserves the right to stipulate additional conditions, if found

necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.

22. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.

23. Any appeal against this environmental clearance 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.

24. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 read with subsequent amendments therein.

25. This issues with the approval of the competent authority.

(Dr. Vimal Kumar Hatwal)
Scientist 'E'

Copy to: -

1. The Secretary, Department of Environment, Government of Maharashtra, Mumbai 400 032
2. The Regional Officer, Ministry of Env., Forest and Climate Change, Integrated Regional Office, Ground Floor, East Wing, New Secretariat Building, Civil Lines, Nagpur- 440001 Maharashtra
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi -32
4. The Member Secretary, Maharashtra Pollution Control Board, Kalpataru Point, 3rd and 4th floor, Opp. Cine Planet, Sion Circle, Mumbai – 22
5. Compliance & Monitoring Division, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi
6. The District Collector, District Kolhapur, Maharashtra
7. Guard File/Monitoring File/Parivesh portal/Record File

(Dr. Vimal Kumar Hatwal)
Scientist 'E'

Annexure –I

Capital cost and recurring cost of EMP are given below:

SN	Component	Particulars		Proposed Capital Investment (In Crores)	Recurring Investment (In Crores /Annum)
1.	Air	➢ ESP ➢ FGD & CO2 Bottling Plant		- 2.20	0.25
2.	Water	➢ CPU & MEE		3.0	0.10
3.	Noise	Acoustic enclosures, Silencer pads, ear plugs etc.		0.10	0.0005
4.	Environment monitoring and Management	Quarterly Environment Monitoring (Per Year)		1.10	0.002
		Ambient air monitoring	PM_{10}, PM 2.5, SO_2, NO_x		
		Boiler & DG Set Monitoring	TPM, SO_2, NO_x		
		Effluent (Treated & Untreated)	pH, COD, BOD, TSS, TDS, Oil & Grease		
5.	Occupational Health	Gloves, Breathing Masks, Gloves, Boots, Helmets, Ear Plugs etc. & annual health-medical check-up of workers, Occupational Health (training, OH canter).		0.10	0.01
6.	Greenbelt	Green belt development activity		1.0	0.02
		Maintenance of green belt			
7.	Solid Waste Management	Solid Waste Management-Brick Manufacturing unit etc.		0.30	0.004
8.	Rain Water & Storm water management	Provision of rain water harvesting tank with 60 days storage capacity		0.80	0.05
		TOTAL COST		8.6	0.4365

Annexure - II

Details of extended EMP (CER) with proposed activities and budgetary allocation:

Year of Implementation	Activity	Cost Estimate in Lakhs	
CER Activities will be proposed for 3 years	Providing basic amenities to ZP Primary School, Village Sonawade and ZP Primary School Village Bambavade, Sarud	**Particulars**	**Amount in Lakh (Approx.)**
		Potable Water Treatment facility	1750000 /-
		Storage Tank	1715000 /-
		Projector (6 Nos)	3,48,000 /-
		Computers (15 Nos)	8,00,000 /-
		Development of Greenbelt Near School	15,00,000 /-
		Up-gradation of School Building	20,45,000 /-
		Provision of Library	7,00,000 /-
	Provision of Solar Lights for Village Khutalwadi, Supatre & Bajagewadi, village	Solar Street Lights	70,92,000 /-
	Medical Camp & Agriculture Awareness to Local farmers and Education aids to schools For Village Sonawade, Pishavi, Bambwade, Donoli, Supatre, Khutalwadi, Awali	Yearly Medical Camp Training to local farmers by Chief Agriculture Officer. Education aids to schools like Notebooks, Books, Sports kits etc	40,50,000 /-
		Total	2,00,00,000/-

Signature Not Verified
Digitally signed by: Dr Vimal Kumar Hatwal
Designation: Scientist E
Date and Time: 6/6/2024 12:08:48 PM