



Cement

ACL/ENV/EC/Bathinda/2024-25/

Date: 29/11/2024

To,
The Deputy Director General of Forest (C)
Regional Office (NZ) MoEF&CC, Bay No.24-25
Sector 31A, Dakshin Marg, Chandigarh -160030.

Sub: Half Yearly Environment Clearance Compliance Report in respect of Clinker Grinding unit with Cement Production Capacity of 2.2 MTPA (Production capacity expression 1.2 MTPA to 2.2 MTPA) by M/S Ambuja Cement Limited at near GNDTP Malout Road Bathinda Punjab 151002. For the period of **April, 2024 to September, 2024.**

Ref. Environment Clearance Letter issued by SEIAA Punjab File No. 2024/EC/E/112 Date: 17.07.2024

Sir,

With reference to the above subject, We are submitting the Half Yearly EC Compliance report for the period of April, 2024 to September, 2024 of condition stipulated in Environment Clearance letter for Cement Grinding Unit of M/s Ambuja Cements Limited.

Submitted for your kind consideration please.

Thanking You,
Yours faithfully,
**For Ambuja Cement Plant
(A unit of Adani Cement Limited)**


Sh. Ram Bhuvra
(Unit Head)

Encl: As above

CC: 1. The Member Secretary, PPCB, Nabha Road Patilala,.

2. Environmental Engineer,Regional Office, PPCB Bathinda,(Punjab).

3. The Regional Director, CPCB Paryavaran Bhawan, Ground Floor, Sector -19B Madhya Marg, Chandigarh.

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Environment Clearance for Proposed Clinker Grinding Unit with Cement production capacity of 2.2 MTPA (1.2 MTPA to 2.2 MTPA) at near GNDTP Malout Road Bathinda Punjab 151002.

Name & Location of Project:	Environment Clearance in respect of Clinker Grinding unit with Cement Production Capacity of 2.2 MTPA (Production capacity expansion 1.2 MTPA- to 2.2 MTPA) by M/S Ambuja Cements Limited at near GNDTP Malout Road Bathinda Punjab 151002.
Environment Clearance No.& date:	Letter No. 2024/EC/E/112 Date: 17.07.2024
Period of Compliance report:	April, 2024 to September, 2024.

Sr. No	Conditions	Compliances status
I	Specific Conditions:	
1.1	The transportation of wet fly ash from ash dykes of GNDTP shall be through concrete/metalled road and in case of any gaps, concreting of such gaps shall be done by the project proponent prior to operation of the expansion component.	The transportation of wet fly ash from ash dykes of GNDTP is being carried out concrete/metalled road and in case of any gaps, concreting of such gaps will be done by the project proponent prior to operation of the expansion component.
1.2	The project proponent shall comply with the conditions of the Land Use classification certificate issued vide DTP, Town & Country Planning Department, Bathinda letter no. 818/ DTP/B/SB.207 dated 28.06.2024	Noted.
1.3	The project proponent shall comply with the guidelines for prevention and control of fugitive emissions from cement plants issued by CPCB in letter and spirit	Noted.
1.4	The project proponent shall comply with the guidelines for loading, unloading, storage and transportation of fly ash issued by MoEF&CC in letter and spirit	Being Complied. Covered trucks are used for transportation of raw materials like clinker, gypsum and Fly ash are transported through Railway wagon, and closed bulkers are deployed for the transportation of fly ash. Photograph of unloading of fly ash is enclosed as Annexure – 1 Project activity is going on details will be provided.
1.5	The project proponent shall ensure extension in validity of lease of land on which the project is located well before its expiry, regularly and shall submit the same to SEIAA	Noted & Agreed.
1.6	The project proponent shall ensure lifting of pond ash @1,500 TPD from ash dykes of GNDTP, Bathinda after the expansion of existing unit and ensure extension in agreement for lifting of pond ash from ash dykes of GNDTP well before its expiry and shall submit the same to SEIAA.	Agreed. Project activity is going on details will be provided.

1.7	The PP will prepare and implement a detailed plan for utilization of the wet fly ash lying in the Dykes (853 acres area) of GNDTP, Bathinda in a sequential manner by dividing such land into small grids of 20 to 25 acres each so that reclamation of land could be achieved in an accelerated manner and about 20 to 25 acres land could be reclaimed annually	Noted. Project activities is going on details will be provided.
1.8	Instead of using coal as fuel in the Fly Ash Dryer, non-coal based fuel will be used with preference being given for crop residue or other Bio-mass based fuel	Noted.
1.9	The Environmental Clearance will be valid for a period of ten years from the date of its issue as per MoEF&CC, GoI Notification no. S.O 1708E dated 12.04.2022 or till the completion of the project, whichever is earlier	Noted.
1. Statutory Compliance		
S. No	EC Conditions	Compliances status
1.1	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project	Not applicable as no forest land is involved
1.2	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable	Not applicable
1.3	The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Warden. The recommendations of the approved Site-Specific Conservation Plan/Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (in case of the presence of schedule-I Species in the study area)	Not applicable
1.4	The project proponent shall obtain consent to Establish/Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/Committee	Noted. Consent to Establish and Consent to Operate will be obtain from Punjab Pollution Control Board.
1.5	The Project proponent shall obtain the necessary permission from the Central Ground water authority, in case of drawl of ground water/ from the competent authority concerned in case of drawl of surface water required for the project	Complied with. Permission from the PWRDA authority by granted no.PWRDA/I/05/2024/L2/378 dt. 09.05.2024 valid up to 08.05.2027.
1.6	The project proponent shall obtain authorization under the Hazardous and other Waste management Rules, 2016 as amended from time to time	Complying with.
2. Air Quality Monitoring And Preservation		
S. No	EC Conditions	Compliances status
2.1	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to	• Continuous emission monitoring system will be installed at Cement mill stack Vent & O

	monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R. No. 612 (E) dated 25th August, 2014 (Cement and subsequent amendment dated 9th May, 2016 (Cement_ and connected to SPCB and CPCB online servers and calibrate these system form time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories	sepa stack will be installed in cement mill & transfer data to CPCB and PPCB server. & CEMS Calibration from authorized patry form time to time.
2.2	The project proponent shall monitor fugitive emission in the plant premises at least once in every quarter through labs recognised under Environment (Protection) Act, 1986	Noted. Inhouse fugitive monitoring report attached as Annexure-2
2.3	The Project proponent shall install system carryout to Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions. (case to case basis small plants: Manual; Large plants: Continuous)	Being Complied. <ul style="list-style-type: none"> Three number of manual AAQMS Sould be installed one numbers of Continuous Ambient Air Quality monitoring (CAAQMS) systems have been installed for the measurement of PM2.5, PM10, SO2, NO2 & CO. Real time data of the same is transferred to PPCB & CPCB server. Photograph of CAAQMS is enclosed as Annexure – 3 and snapshot of PPCB server showing Ambuja Cement CAAQMS data is enclosed as Annexure – 4 . Project activity is going on details will be provided.
2.4	The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality /fugitive emissions to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report	Being Complied. Ambient air quality, Stack emission monitoring & fugitive emission reports are being submitted to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB with six-monthly EC compliance status report. Monitoring report is enclosed as Annexure – 5 Project activity is going on data will be provided.
2.5	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards	To keep the PM emission from the cement mill stack below permissible limit of 30 mg/nm3 a high efficiency bag house has been provided. ☑ To control the fugitive emission at transfer points of material receiving, conveyor belt, storage, grinding circuit, product storage and dispatch total 15 nos. of bag filters are provided and in the proposed expansion project 7 nos. of additional bag filters will be installed at various locations of the transfer points.

		<p>7 Adequate ventilation for the packing plant is being/will be provided for venting out suspended particulate thereby ensuring dust free work environment.</p> <p>7 Transport vehicles will be properly maintained to reduce air emissions.</p> <p>7 Idling running of vehicles will be minimized during material loading/ unloading operations.</p> <p>7 Silo for clinker storage, fly ash, cement.</p> <p>7 Local covered conveyer belt is being/will be used for transfer of raw material to minimizes the dust emissions</p> <p>7 Fly ash is being/will be transported in closed trucks/ tankers and will be pneumatically transported into silos.</p> <p>7 Covered storage for gypsum.</p> <p>7 Water sprinkling at unloading and raw material section.</p> <p>7 A proper record of fugitive dust emission monitoring is being/will be maintained</p> <p>7 Road sweeping machine is being/will be deployed to control fugitive dust emission.</p> <p>7 Speed limit inside the plant premises is being/will be fixed to prevent dust emissions.</p> <p>7 All internal roads are being/will be of concrete and will be well maintained. Repairing work required, if any, will be done. Photographs attached as Annexure-6</p>
2.6	The project proponent shall provide leakage detection and mechanised bag cleaning facilities for better maintenance of bags	<ul style="list-style-type: none"> DP transmitter has been provided on every dust collector for leakage detection. <p>Mechanized bag cleaning facilities i.e. Purging system has been provided for better maintenance of bags.</p>
2.7	Pollution control system in the cement plant shall be provided as per the CREP Guidelines of CPCB.	<p>Being Complied.</p> <p>We are strictly complying all the recommendations of the Corporate Responsibility or Environmental Protection (CREP) for the cement plants, details are as follows. Details compliance of CREP is enclosed as Annexure – 7</p>
2.8	Sufficient number of mobile or stationary vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly	<p>Being Complied.</p> <p>02 Nos Road sweeping machines are being used continuously for maintaining housekeeping. Photograph of Road sweeping machines are enclosed as Annexure – 8.</p> <p>Project expansion activity is going on data will be provided.</p>

2.9	Ensure covered transportation and conveying of raw material to prevent spillage and dust generation; Use closed bulkers for carrying fly ash	Being Complied. Covered trucks are used for transportation of raw materials like coal; clinker, gypsum and slag are transported through Railway wagon, and closed bulkers are deployed for the transportation of fly ash. Photograph of unloading of fly ash is enclosed as Annexure – 9
2.10	Provide wind shelter fence and chemical spraying on the raw material stock piles; and	Being Complied. Clinker, Cement and Fly ash are being stored in Concrete silos. Gypsum are being stored in covered shed. Photographs of storage silos and covered shed are enclosed as Annexure – 10 . Project activities is going on details shall be provided.
2.11	Have separate truck parking area and monitor vehicular emissions at regular interval	Complying with. <ul style="list-style-type: none"> Separate truck parking area has been developed. Vehicles having valid PUC are allowed for transportation of raw materials. Photographs of Truck yard is enclosed as Annexure – 11
2.12	Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land by the use of covered conveyor belts/railways as mode of transport	Being Complied. <ul style="list-style-type: none"> Raw materials (Clinker, Gypsum) are transported through rail. Closed bulkers have been used for the transportation of fly ash and covered trucks are used for the transportation. Vehicles having valid PUC are allowed for transportation of raw materials. Cleaning of roads and truck parking area is being done by sweeping cleaning machine. Photograph of closed bulker and covered truck for raw materials transportation are enclosed as Annexure – 8 .
2.13	Ventilation system shall be designed for adequate air changes as per ACGIH document for all tunnels, motor houses, cement bagging plants	Complying with. Project activities is going on will be provided.
3. Water Quality Monitoring And Preservation		
S. No	EC Conditions	Compliances status
3.1	The project proponent shall install effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R. No. 612 (E) dated 25th August, 2014 (Cement) and subsequent amendment dated 9th May, 2016 (Cement) and connected to SPCB online servers and calibrate this system from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories. (case to case basis small plants: Manual; Large plants: Continuous)	Noted. No industrial waste water is generated from Cement Plant as cement manufacturing is a dry process. Hence, as per CPCB guideline 24x7 continuous effluent monitoring system is not required for cement industries. No waste water is being and will be discharge outside the plant. Domestic waste water is

		<p>being treated in STP and is being recycled for plantation and Green Belt development.</p> <p>Continuous Emission monitoring system is installed for cement mill stacks and data is being connected to PPCB and CPCB server.</p>
3.2	The project proponent shall monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers/sampling wells in the plot and adjacent areas through labs recognised under Environment (Protection) Act, 1986 and NABL accredited laboratories	<p>Complying with.</p> <p>Project is going on data will be provided.</p>
3.3	The project proponent shall submit monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report	<p>Noted.</p> <p>No industrial waste water is generated from Cement Plant as cement manufacturing is a dry process. Hence, as per CPCB guideline 24x7 continuous effluent monitoring system is not required for cement industries.</p> <p>No waste water is being and will be discharge outside the plant. Domestic waste water is being treated in STP and is being recycled for plantation and Green Belt development.</p> <p>Continuous Emission monitoring system is installed for cement mill stacks and data is being connected to SPCB and CPCB server.</p>
3.2	Adhere to 'Zero Liquid Discharge'	<p>Being Complied.</p> <ul style="list-style-type: none"> • Complying with Zero liquid discharge. • Clinker grinding is a dry process and therefore, no effluent is being generated from the process. • Domestic waste water generated from offices and canteen is being treated in STP and treated water is used for horticulture purpose.
3.4	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards	<p>Being Complied.</p> <p>Domestic waste water from offices and guest house is treated in STP and treated water is used for plantation purpose.</p> <p>Photographs of STP and utilization of treated water are enclosed as Annexure – 12</p>
3.5	Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off	<p>All the raw materials are stored under covered shed and in Silos.</p> <p>Photographs of storage silos and covered shed are enclosed as Annexure – 10.</p>
3.7	The project proponent shall practice rainwater harvesting to maximum possible extent	Being Complied.

		<ul style="list-style-type: none"> • Rainwater harvesting pond (RWHP) developed within plant area with storage capacity. • Artificial rain water recharge structures are constructed inside plant premises to recharge ground water. <p>Photograph of RWHP and artificial rain water recharge structure are enclosed as Annexure – 13</p> <p>Project activities is going details will be provided'</p>
3.8	Water meters shall be provided at the inlet to all unit processes in the cement plant	Digital water flow meters installed at all raw water withdrawal sources. Project activity is going on details shall be provided.
3.9	The project proponent shall make efforts to minimise water consumption in the cement plant complex by segregation of used water, practicing cascade use and by recycling treated water	Being Complied. Domestic waste water from offices and guest house is treated in STP and treated water is used for plantation purpose. Photographs of STP and utilization of treated water are enclosed as Annexure = 12.
4. Noise Monitoring And Prevention		
S. No	EC Conditions	Compliances status
4.1	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Office of the Ministry as a part of six-monthly compliance report	<input checked="" type="checkbox"/> Closed room for compressor is being/will be provided. <input checked="" type="checkbox"/> DG Set with acoustic enclosure has been provided <input checked="" type="checkbox"/> Regular maintenance of all equipment is being/will be done <input checked="" type="checkbox"/> A room enclosure for mill operators has been provided. <input checked="" type="checkbox"/> Proper maintenance, oiling and greasing of machines at regular intervals is being/will be done to reduce generation of noise. <input checked="" type="checkbox"/> Green belt /plantation development as Noise barrier. <input checked="" type="checkbox"/> Use of adequate protective measures which are earmuffs/ ear plugs/masks by all persons within the plant premises of noise level. <input checked="" type="checkbox"/> Regular monitoring of noise level is being/will be carried out and corrective measures in concerned machinery will be adopted accordingly. <input checked="" type="checkbox"/> Training of personnel is being/will be provided to create awareness and about effects of noise and importance of using PPE's

4.2	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time	Noise level is being monitored on regular basis and results are enclosed as Annexure -14 .
5. Energy Conservation Measures		
Sr.No.	EC Conditions	Compliance Status
5.1	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly	Agreed. Project activities is going on shall be provided.
5.2	Provide the project proponent for LED lights in their offices and residential areas	Being Complied. • LED lights have been provided in offices and other buildings inside the plant premises. Photograph of the same is enclosed as Annexure – 14 .
5.3	Maximize utilization of fly ash, slag and sweetener in cement blend as per BIS standards	Being Complied. Fly ash is being used as per BIS standard for cement manufacturing.
6. Waste Management		
S. No	EC Conditions	Compliance Status
6.1	The waste oil, grease and other hazardous shall be disposed of as per the Hazardous & other waste (Management & Transboundary Movement) Rules, 2016	Used Oil is being collected in drums and sold to SPCB authorized recyclers as per the Hazardous & Other waste (Management & Trans-boundary Movement) Rules, 2016.
6.2	Kitchen waste shall be composted or converted to biogas for further use. (to be decided on case to case basis depending on type and size of plant)	Complying with. Photographs attached for your reference as annexure 14 .
7. Green Belt		
Sr.No.	EC Conditions	Compliance Status
7.1	Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant	Being Complied. Plantation activities are done regularly. Out of total plant area of 95 acres, green belt has been developed in 37.2 acres (33.8%) area. Native Plant species are being planted. Project activity is going on details will be provided.
7.2	The PP will plant 6,303 saplings (new plantation + gap filling of mortalities in old plantations) of indigenous tree species (Neem, Siris, Sheesham, Pipal, Arjun, Jamun, Chakrassia, Drek & Beal etc) of minimum 8 feet height and healthy woody stem. The plantation will commence at the earliest and be completed within 18 months from the date of grant of EC.	Noted. Status : project is going on data shall be provided. Hence, after expansion, the total no of trees would become 20805 No. (Existing 14502 Nos. + Additional 5163 Nos +1140 Nos.), green area will be increased to 13.87 Ha with trees density of 1500 trees/Ha and green cover will increase to 36.12% of the total plant area. The height of the total additional proposed trees of 6303 Nos will be 6 feet of following varieties: a) <i>Albizia lebbbeck</i> (Siris)- Tree b) <i>Dalbergia sissoo</i> (Shisham) Tree c) <i>Azadirachta indica</i> (Neem)- Tree d) <i>Delonix regia</i> (Gulmohar) Tree e) <i>Cassia fistula</i> (Amaltash)- Tree

		<p>f) <i>Terminalia arjuna</i> (Arjun) Tree g) <i>Alluaudia procera</i> (Drake) Tree</p> <p>Project activity is going on details will be provided.</p>
7.3	The project proponent shall prepare GHG emissions Inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration including plantation	<p>Being Complied.</p> <p>A team of expert performs the survey of the entire plant and collect the raw data of GHG emissions. Company follow the GCCA and Energy Accounting and reporting standard for the Cement Industry" for the calculation of the GHG emission.</p>
8. Public Hearing And Human Health Issues		
8.1	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented	<p>Complying with.</p> <p>On-Site Emergency preparedness plan based on the Hazard identification and Risk assessment (HIRA) and Disaster Management Plan has been prepared and implemented.</p> <p>Approved copy of On-site emergency plant is enclosed as 15</p>
8.2	The PP shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act	<p>Complying with.</p> <p>Personal Protection Equipment (PPE) are being provided as per the norms of Factory Act.</p>
8.3	Provision shall be made for the housing on construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche, etc. the housing may be in the form of temporary structures to be removed after the completion of the project	<p>Complying with.</p> <p>Project is on going details will be provided.</p>
8.4	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act	<p>Noted.</p> <p>Following measures is being/will be adopted in the plant.</p> <ul style="list-style-type: none"> ☑ Regular inspection and maintenance of Pollution Control Systems. ☑ All measures related to safety such as safety appliances, training, safety awards, posters, slogans will be undertaken. ☑ Adequate facilities for drinking water and toilets will be provided to the employees. ☑ The fire and safety equipment is being/will be utilized and maintained regularly. ☑ Lightweight cloths are being/will be preferred to wear. <p>Noise</p> <ul style="list-style-type: none"> ☑ Noise exposure measurements are being/will be taken to determine the need for noise control strategies. ☑ The workers exposed to noisy sources will be provided with ear

		<p>muffs/ plugs.</p> <p>☑ Supervisor is being/will be instructed for reporting any problems with hearing protectors or noise control equipment.</p> <p>☑ At noisy working activity, exposure time is being/will be minimized.</p> <p>☑ Machineries are being/will be labeled with noise levels.</p> <p>Dust Control</p> <p>☑ Dust generating sources is being/will be identified and proper control measure is being/will be adopted.</p> <p>☑ Dust mask is being/will be provided during industrial activity.</p> <p>☑ Periodic medical examinations are being/will be provided to all workers.</p> <p>☑ Awareness program is being/will be organized to workers.</p>
	9. Environment Management	
S. No	EC Conditions	Compliance Status
9.1	<p>The company shall have a well-laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violations of the environmental / forest/wildlife norms/conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stakeholders. A copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of the six-monthly report</p>	<p>Being Complied.</p> <p>Company has a well-established Corporate Environmental Policy. Environment, Social and Governance Committee (ESG) committee review all the environment compliances. Management Representative will appraise the highest authority on quarterly basis regarding the performance of the plant on environmental measures. Project is on going details will be provided.</p> <p>Corporate Environmental Policy attached as annexure-16.</p>
9.2	<p>A separate Environmental Cell both at the project and company headquarters level, with qualified personnel shall be set up under the control of senior Executive, who will report directly to the head of the organization</p>	<p>Being Complied.</p> <p>A dedicated environmental cell with qualified personnel has been established and directly reporting to the Unit head.</p>

9.3	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and will not be diverted for any other purpose. The details of the amount to be spent on the various environmental activities proposed in environmental plan, Corporate Environment Responsibility and additional environmental activities are given in the tables given below: Environment management plan:						Noted & Agreed. Project activity will be carried out as per compliance & report will be submitted time to time.
	Sr.NO.	Exist ing Capi tal Cost lakh Ann um	Existi ng Recu rring , Cost in Lakh	Propo sed Capit al cost in Lakh	Propo sed Recur ring in lakh	Total (Existi ng Propo sed capita l cost	
	1.APCD equipt	85.6 8	8.0	390	20	475.6 8	28 for RP &BF
	2 Water sprinkl er syste m	4.82	0.5	200	5	204.8 2	
	Water polln. Mgt.	78.6	3	100	8	178.6	11
	Env.m onitori ng	32.4	4.5	100	7	132	
	5.Heal th checku p	4.5	1	50	8	54.5	9
	6.Deve lopme nt & plntn.	28	2	47	10	75	
	7.Vacc ume machi ne	32	5	60	12	92	17
	8.CER Cost	-	-	274.9 2	-	274.9 2	
	Table: 2						
	Additional Environment activities						
	Sr.No.	Deta ils of	Year 23- 24	Year 23-24	Year 23-24	Year 23-24	Remar k

	Activ ities	24 Rs.la kh	Rs.lak h	Rs.lak h	Rs.lak h	
1.Dem ostrati on Solar light	30	30	30	90	-	
2Plant ation out side plant.	5	5	5	15	-	
3. Drip irrigati on for core vill.	10	10	10	30	-	
4. Ex- Situ in consul tation	10	10	10	30	-	
5.Reno vation of pond	30	30	30	90	-	
Total	50	150	150	150	500	

PP will submit the location and specific details of activities proposed to be undertaken at S No 3 to 7 of AEA plan to SEIAA within 2 months. Table 3. CER: Year wise proposed CER Budget(Lakhs)	Notes & Agreed. Project activites location & will be provided time to time.																																								
<table><tr><td>Activity</td><td>1st Year</td><td>2nd Year</td><td>3rd Year</td><td>Total (Lakh)</td></tr><tr><td>Eduction</td><td>18</td><td>10.8</td><td>7.2</td><td>36</td></tr><tr><td>Heath</td><td>40</td><td>20</td><td>20</td><td>80</td></tr><tr><td>Live hood</td><td>30</td><td>18</td><td>12</td><td>60</td></tr><tr><td></td><td>31.96</td><td>19.176</td><td>12.784</td><td>63.92</td></tr><tr><td>Infrastru cture</td><td>11.5</td><td>6.9</td><td>4.6</td><td>23</td></tr><tr><td>Drinking water for Villages</td><td>6</td><td>3</td><td>3</td><td>12</td></tr><tr><td>Total</td><td>137.46</td><td>77.876</td><td>59.584</td><td>274.92</td></tr></table>	Activity	1 st Year	2 nd Year	3 rd Year	Total (Lakh)	Eduction	18	10.8	7.2	36	Heath	40	20	20	80	Live hood	30	18	12	60		31.96	19.176	12.784	63.92	Infrastru cture	11.5	6.9	4.6	23	Drinking water for Villages	6	3	3	12	Total	137.46	77.876	59.584	274.92	
Activity	1 st Year	2 nd Year	3 rd Year	Total (Lakh)																																					
Eduction	18	10.8	7.2	36																																					
Heath	40	20	20	80																																					
Live hood	30	18	12	60																																					
	31.96	19.176	12.784	63.92																																					
Infrastru cture	11.5	6.9	4.6	23																																					
Drinking water for Villages	6	3	3	12																																					
Total	137.46	77.876	59.584	274.92																																					

	10. Miscellaneous	
Sr.No.	EC Conditions	Compliance Status
10.1	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently	EC was received on 17 th July 2024 and advertised in Prabhat Khabar & Dainik Bhaskar local newspapers have been published on dated 20/07/2024 & 21/07/2024 respectively. Copy of the same submitted on 25/07/2024. EC add local news paper copy attached as Annexure-17 .
10.2	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	Copy of EC has been provided to following local bodies: 1. Gram Panchayat 2. Block, Bathinda
10.3	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis	Noted & Agreed. The copy of environment clearance letter is available on the web site of Ambuja Cement Ltd. www.ambujacement.in
10.4	The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company	<ul style="list-style-type: none"> 1 nos. CAAQMS has been installed inside plant premises for the monitoring of PM10, PM2.5, SO2, NOx & CO. CEMS i.e. opacity meter for PM measurement has been provided at cement mill stack. Monitoring data of the same is being uploaded/ available on PPCB & CPCB server and the same is being displayed at company main gate. Snapshot of SPCB server showing Ambuja Cement CAAQMS data is enclosed as Annexure – 2 , Photograph of CAAQMS and CEMS are enclosed as Annexure – 3 , and photograph of display board at main gate is enclosed as Annexure – 4
10.5	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of environment, Forest and Climate Change at environment clearance portal	Agreed. The first six monthly project compliance report For the period of April 24 to Sept. 24.
10.6	The project proponent shall submit the environmental statement for each financial year in form-V to the concerned State Pollution control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company	Environmental statement for each financial year ending 31 st March in Form-V has been submitted to the Punjab State Pollution Control Board and is available on the web site of Ambuja Cement Ltd. www.ambuja.cement.com

10.7	The project proponent 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, commencing the land development work and start of production operation by the project	Noted & Agreed. Project is on going details will be provided.
10.8	The project proponent shall make public the environmental stipulations made by the State Pollution Control Board and the State government and its commitments and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently	Agreed & noted.
10.9	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	Agreed & Noted.
10.10	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC)	Noted. We will obtain prior approval from MoEF&CC for further expansion or modification.
10.11	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	Noted. We will obtain prior approval from MoEF&CC for further expansion or modification.
10.12	SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory	Agreed & Noted.
10.13	SEIAA reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions	Agreed & Noted.
10.14	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 date/ information/ monitoring reports	Agreed & Noted.
10.15	The above conditions shall 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, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other order passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter	Agreed & Noted.

10.16	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	Agreed & Noted.
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Annexure-1

UNLOADING OF FLY ASH FROM CLOSED BULKER



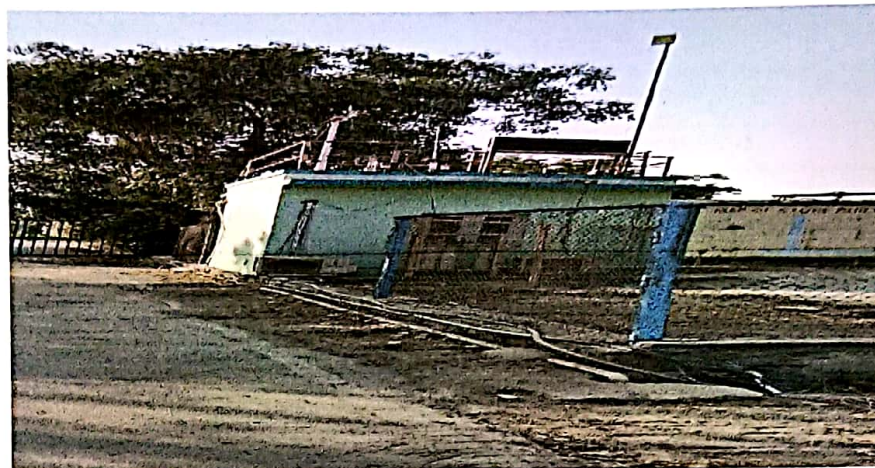
FUGITIVE EMISSIONS MONITORING RESULTS Annexure-2

Location / Months	Clinker Silo	Cement Silo	Fly Ash Silo	Packing Plant
Norms	5000 µg/m3	5000 µg/m3	5000 µg/m3	5000 µg/m3
April-24	3241	3779	3900	4656
May-24	3417	3636	4328	4694
June-24	3537	3735	4050	4472
July-24	3340	3256	3720	4128
August-24	3157	3472	3547	3647
Sept-24	3247	3527	3752	3971

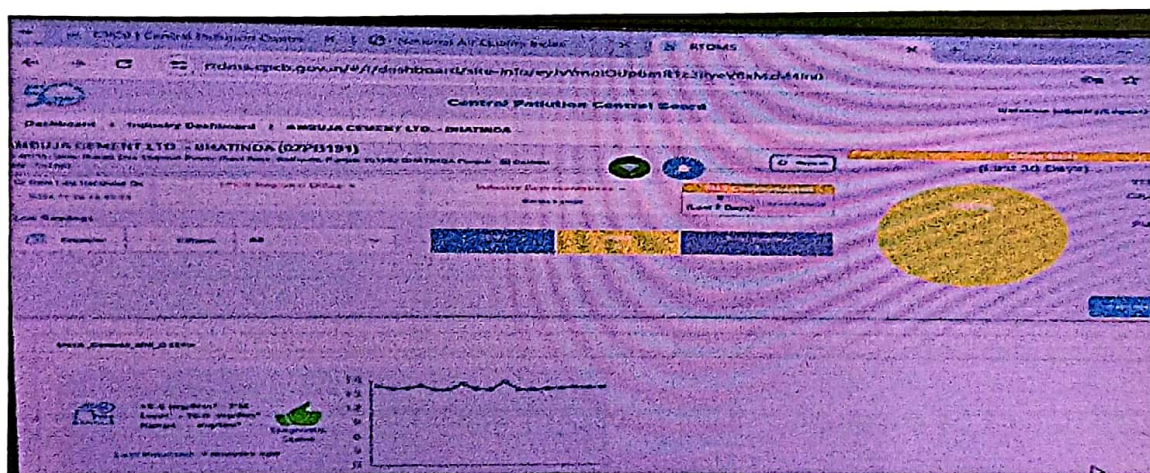
Online CAAQMS Analyzer

Annexure-3





Snapshot of CEMS Data Annexure-4



Main Gate Display Board



CONTINUOUS PARTICULATE MONITOR RESULTS FOR CEMENT MILL STACKS Annex-5

(AVERAGE RESULTS)

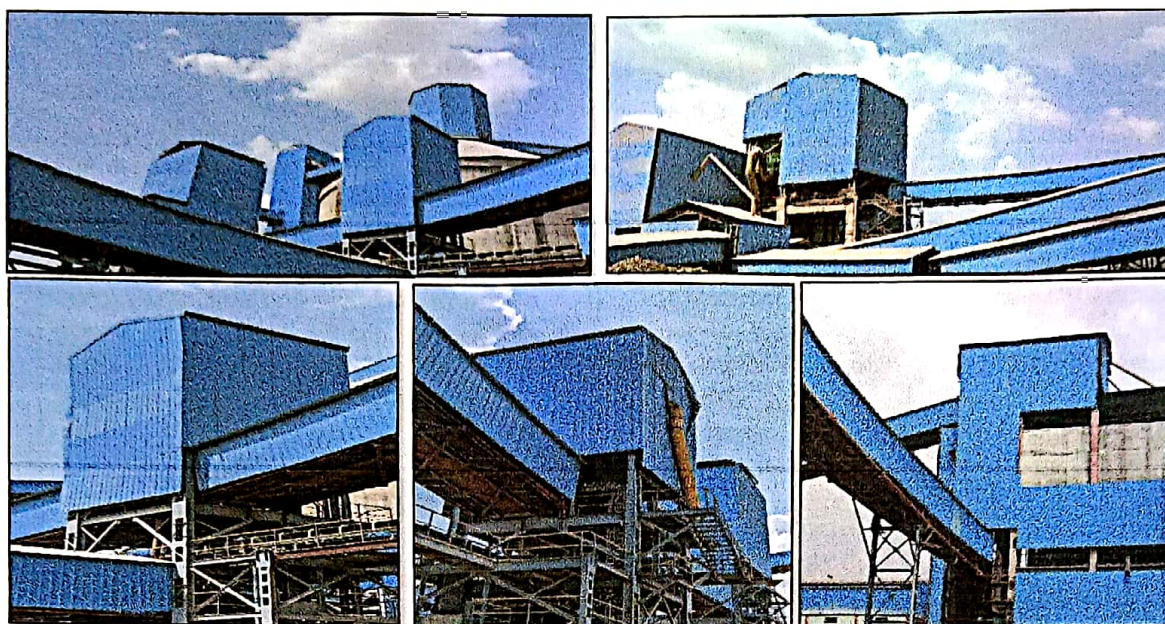
Months	Cement Mill vent	O Sepa Stack
Norms	30cmg/Nm3	30cmg/Nm3
April-24	14.5	17
May-24	17	17.5
June-24	24	18.5
July-24	13	16
August-24	21	24
September-24	15.5	16

Ambient Air Quality monitoring data

Ambient Air Quality monitoring Result						
Locations	Near Main Road		Near Water tank		Near MPSS	
	PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
24-Apr	66.7	48.2	63.7	37.1	69.4	40.2
24-May	68.3	38.2	64.5	32.5	70.6	35.2
24-Jun	67.9	35.4	65.3	30.9	66.4	31.5
24-Jul	68.2	39.6	66.2	31.5	67.1	33.7
24-Aug	67.5	40.2	63.9	33.5	70.1	30.5
24-Sep	68.3	37.5	64.1	29.4	69.2	28.4

BAG HOUSE ATTACHED TO CEMENT MILL Annexure- 6

COVERED CONVEYER BELTS AND TRANSFER POINTS WITH BAG FILTER



Annexure-7

Compliance of the Corporate Responsibility or Environmental Protection (CREP) for the cement plants

Sr.No.	Conditions	Status
1.	<p>Cement Plants which are not complying* with notified standards:</p> <ul style="list-style-type: none"> • Augmentation of existing Air Pollution Control Devices - by July 2003. • Replacement of existing Air Pollution Control Devices - by July 2004. 	<p>Unit commissioned on 2000 and complying with new emission norms.</p> <p>Project expansion is going on data shall be provided.</p>
2.	<p>Cement plants located in critically polluted or urban areas (including 5 km distance outside under urban boundary) will meet 100 mg / Nm³ limit of particulate matter by December 2004 and continue working to reduce the emission of particulate matter to 50 mg / Nm³</p>	<p>Ambuja Cement Plant is located at urban areas. At present emission level are with well in the limits as per CTO i.e. <30 mg/Nm³ for PM concentration</p> <p>Project expansion is going on data shall be provided.</p>
3.	<p>The new cement kilns to be accorded NOC/Environmental Clearance w.e.f. 01.04.2003 will meet the limit of 50 mg/ Nm³ for particulate matter emissions.</p>	<p>It's only a clinker grinding unit and emission level is being maintained <30 mg/Nm³ as per the CTO /EC condition.</p>
4.	<p>CPCB will evolve load based standards by December 2003.</p>	<p>Load based standards issued by the MoEF is for Kiln only. This is a cement grinding unit hence, this condition is not applicable.</p>

5.	CPCB and NCBM will evolve SO ₂ and NO ₂ emission standard by June 2004. The above referred Notification has stimulated emission standards for SO ₂ - 100 mg / Nm ³ and NO _x - 600 mg / Nm ³	It's only a clinker grinding unit, this condition is not applicable.
6.	The cement industries will control fugitive emissions from all the raw material and products storage and transfer points by December 2003. However, the feasibility for the control of fugitive emissions from limestone and coal storage areas will be decided by the National Task Force (NTF). The NTF shall submit its recommendation within three months.	<p>Ambuja cement limited is taking following measures to control Fugitive dust emission.</p> <ul style="list-style-type: none"> • All conveyors belts are covered. • All the material transfer points, silos tops, silos extraction, loading and unloading hoppers are equipped with bag filters. • Silo for clinker, cement and fly ash, covered shed for gypsum. • Concreting all movement area to avoid fugitive dust emission. • Road sweeping machines are being deployed for better housekeeping. • Water Spray is being done by tanker at kachha area with the consideration of weather. Moreover, water sprinklers have been installed along the road(s) as per the requisite. • Green belt has been developed along the plant boundary and inside plant premises. <p>Project expansion is going on data shall be provided.</p>
7.	CPCB, NCBM, BIS and Oil refineries will jointly prepare the policy on use of petroleum coke as fuel in cement kiln by July 2003.	Not applicable.
8.	After performance evaluation of various types of continuous monitoring equipment and feedback from the industries and equipment manufacturers, NTF will decide feasible unit operations/sections for installation of continuous monitoring equipment. The industry will install the continuous monitoring systems (CMS) by December 2003.	<p>Continuous Emission Monitoring System (CEMS) & Continuous Ambient Air Quality Monitoring Stations (CAAQMS) have been installed.</p> <p>Project expansion is going on data shall be provided.</p>
9.	Tripping in ESP to be minimized by July 2003 as per recommendation of NTF.	Not applicable.
10.	Industries will submit the target date to enhance the utilization of waste material by April 2003.	<p>Ambuja Cement Limited is putting efforts to continuously use waste materials:</p> <ul style="list-style-type: none"> • Waste material (fly ash) from nearby Thermal Power Plants is being used in cement plant. • Flyash, waste material from power plant is being used for manufacturing of PPC cement.
11.	NCBM will carry out a study on hazardous waste utilization in cement kiln by December 2003.	Not applicable

12.	Cement industries will carry out feasibility study and submit target dates to CPCB for co-generation of power by July 2003.	Not applicable
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Road Sweeping Machine

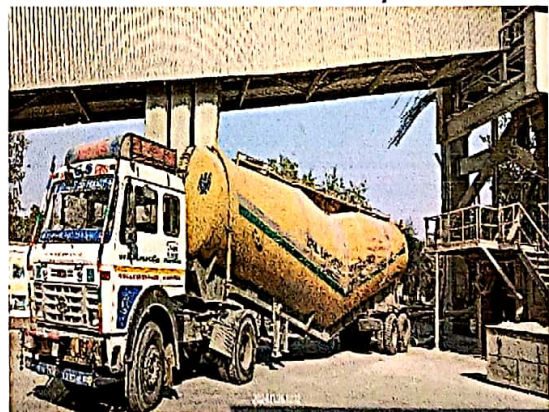
Annexure- 8

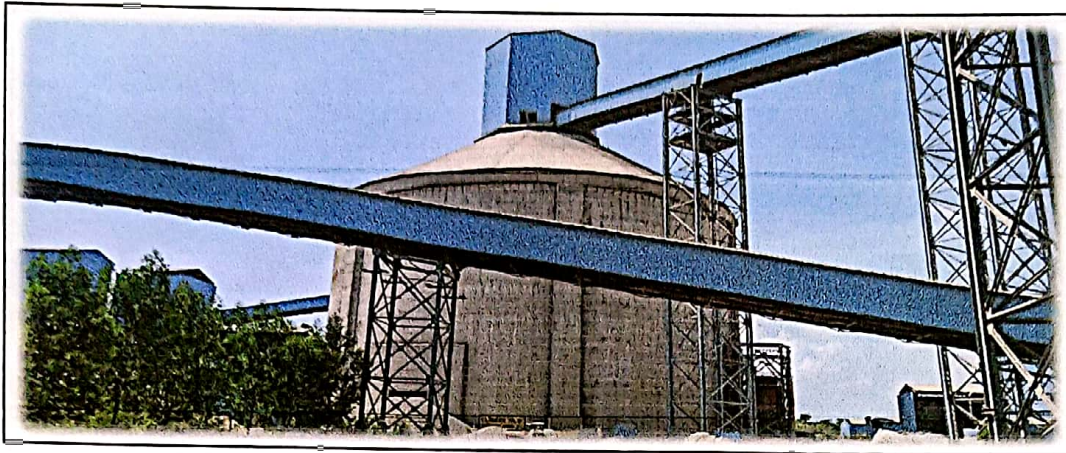


Annexure-9

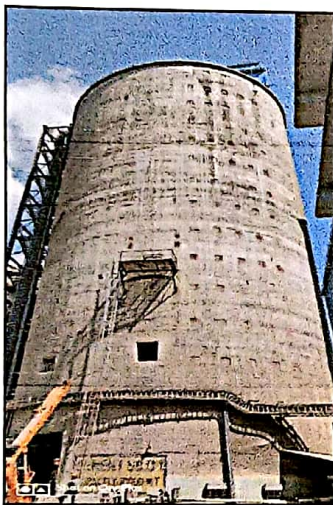
Closed Bulker for Fly ash

**COVERED TRUCK WHILE TRANSPORTING
RAW MATERIALS**

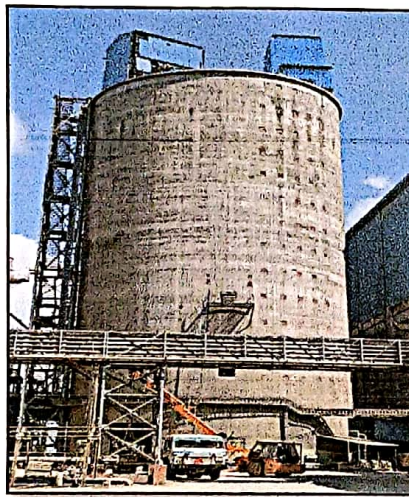




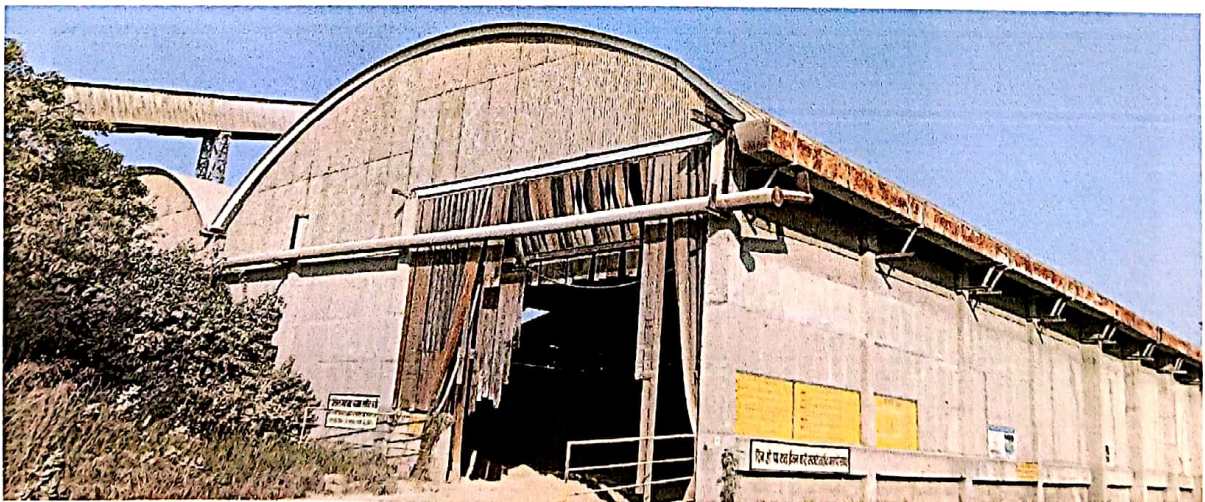
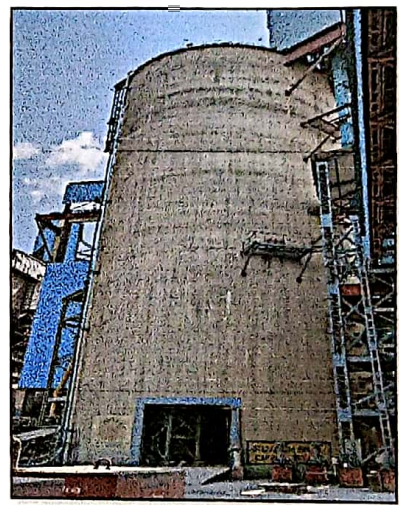
CEMENT SILO - 1



CEMENT SILO



FLY ASH SILO



Zypsum Shed

TRUCK PARKING AREA

Annexure- 11



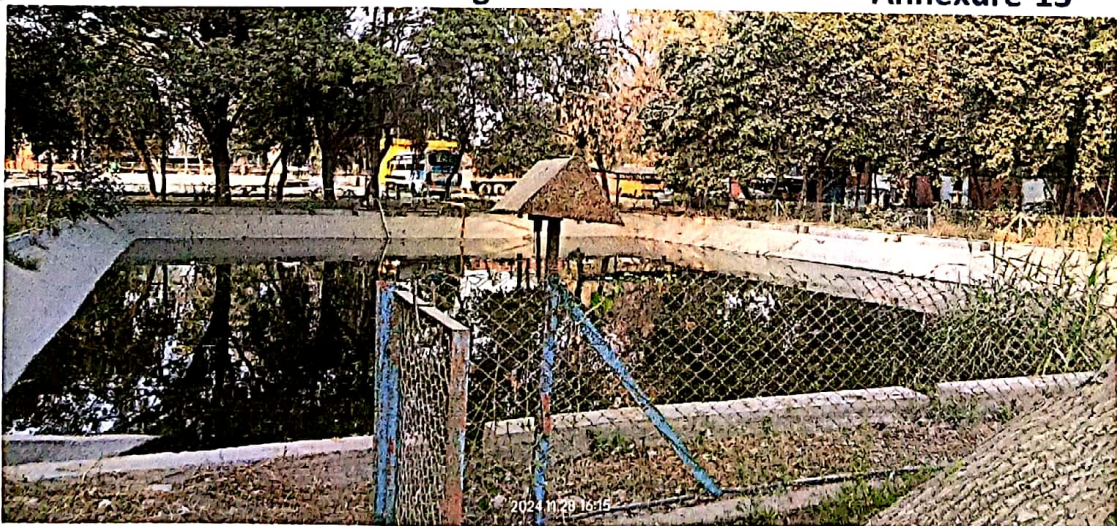
STP & UTILIZATION OF TREATED WATER IN PLANTATION

Annexure-12



Rainwater Harvesting Pond

Annexure-13



Noise Level Monitoring

Annexure-14

Ambient Noise level monitoring Data Leq. In dB(A)								
Locations	Plant boundary near logistic building		Plant boundary near wagon tippler		Plant boundary near RWHS		Plant boundary near railway siding	
Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
April -24	66.7	53.8	63.7	49.3	69.4	55.9	69.9	55.9
May-24	68.3	53.6	64.5	51.9	70.6	60.5	66.1	51.8
June-24	67.9	54.3	65.3	52.6	66.4	55.3	68.1	57.1
July-24	68.2	55.3	66.2	53.1	67.1	56.2	69.2	56.8
August-24	67.5	55.9	63.9	51.3	70.1	56.9	70.3	57.3
Sept. 24	68.3	56.3	64.1	52.3	69.2	58.6	65.2	50.9

Annexure-15

Vermicomposting Bed



Corporate Environment Policy. Annexure-16

Ambuja
Cement

adani
Cement

CORPORATE ENVIRONMENT POLICY

As an integral part of our business philosophy, Ambuja Cement Limited part of Adani Group is committed to contribute towards ensuring a clean and sustainable environment by continually improving our environmental performance.

This policy is applicable to all units with operational and financial control and extends to our value chain, vendors, suppliers, and logistics partners. The suppliers and value chain partners are expected to adhere to the policy and develop an Environment Policy for their own operations.

To achieve this goal, we wholeheartedly and proactively commit ourselves to:

- Conduct all our operations in an environmentally responsible manner that is better than statutory environment compliances and applicable standards.
- Ensure judicious use of resources including energy, water and raw materials.
- Adopt environmentally safe and advanced process technologies along with best practices for prevention & control of risks and adverse effects of the release of our pollutants to the environment (air, water, and soil) so as to protect health and safety of our employees, contract employees, and community.
- Continuously assess our environmental impacts and measure and improve our environmental performance by adopting best practices for prevention and control of pollution.
- Make continuous efforts to increase the use of non-carbonaceous raw material, renewable energy and fuel and co-processing of wastes to reduce our greenhouse gases (GHG) footprint as part of our Climate Change mitigation initiatives.
- Promote circular economy through use of alternate fuels, raw materials and reuse and recycling of waste generated.
- Comply with applicable legal and other requirements including clearances of environment, forest and wildlife, consents, permits, licenses, standards, and leading industry initiatives.

- Make continuous efforts to reduce water intensity and fresh-water usage by increased use of harvested and recycled water in our operations.
- Assess biodiversity quality in all our extraction sites and strive to create a positive impact.
- Invest in research and development of environmentally sustainable products which have a low ecological footprint.
- Set targets and objectives to reduce environmental impacts of our operations and establish continuous monitoring mechanisms.
- Achieve No Net Deforestation as part of our operations.
- Encourage value chain partners to improve their environmental performances.
- Implement and continually improve the Environmental Management System across all our operations.
- Conduct regular training employees to understand the impacts of their work activities on the environment and on judicious use of resources.
- Raise awareness of environmental management policy and environmental impacts for internal and external stakeholders.
- Carry out Environmental Due diligence at the time of business mergers and acquisitions.
- Disclosure of our environmental performance to all applicable stakeholders on a regular basis.

Roles and Responsibilities

- Unit Heads of the respective sites are responsible for the implementation of this policy and EMS at unit level in consultation with Corporate Environment Head.
- Chief Sustainability Officer oversees and holds responsibilities of overall effectiveness of the system implementation, initiatives undertaken across the organizational boundaries.
- Environmental performance and issues are communicated to Management and Board of Directors during quarterly meetings and as per the requirement.


Ajay Kapur
Chief Executive Officer
Cement Business, Adani Group

EC add Local News paper copy

Annexure-17

