

Ref: SJPCL /ENV /2022-23/02

Date: 22.11.2022

To

The Additional PCCF (Central)
Ministry of Environment, Forests & Climate Change
Regional Office (South Eastern Zone)
1st & 2nd Floor, HEPC Building,
No. 34, Cathedral Garden Road
Nungambakkam, CHENNAI - 600 034

**Sub: Submission of half yearly Environmental Clearance point wise compliance report
For the period April– 2022 to September– 2022 for our Cement Plant expansion
(Clinker 1.8 MTPA to 2.2 MTPA)– Reg.**

Ref: F.No. J-11011/21/2014-IA-II (I) dated: 28th April 2015

Dear Sir,

We are herewith submitting half yearly Environmental Clearance point wise compliance status reports for the period of April– 2022 to September– 2022 of our Cement plant expansion (Clinker 1.8 MTPA to 2.2 MTPA) located at Yanakandla (V), Banaganapalle (M), Nandyal Dist., Andhra Pradesh.

Thanking You,

Yours faithfully,
For Sree Jayajothi Cements Private Limited


B. C. Gurivi Reddy
Vice President (works)



Half Yearly EC Compliance Report – (April-2022 to September-2022)
Cement Plant Expansion: F.No. J-11011/21/2014-IA-II (I) dated: 28th April 2015.

A. SPECIFIC CONDITIONS:

S.No.	Specific conditions	Compliance status
i.	The expansion project shall comply with the new MoEFCC standards vide GSR 612 (E) dt 25.08.2014 with respect to particulate matter, SO ₂ , NO _x for cement sector.	<p>Installed Kiln Bag House Air Pollution Control Device (Pulsejet Baghouse) is designed for below 30 mg/Nm³ and PM emission level is maintained below 30 mg/Nm³.</p> <p>Complying the new MoEF & CC standards vide GSR 612 (E) dt 25.08.2014, GSR 497(E) dated: 10.05.2016 with respect to particulate matter, SO₂, NO_x.</p> <p>PM, SO₂ & NO_x values are well within new emission standards prescribed by MoEF&CC.</p>
ii.	Continuous stack monitoring facilities to monitor gaseous emissions from all the stacks shall be provided. After expansion, limit of PM ₁₀ shall be controlled to prescribed standards by installing adequate air pollution control system. Electrostatic precipitators to clinker cooler, bag house to raw mill/Kiln and bag house to coal mill. Low NO _x burners shall be provided to control NO _x emissions. Regular calibration of the instruments shall be ensured.	<p>Installed online Continuous Monitoring System (OCEMS) for Stack attached to the Raw mill/Kiln Bag House, Coal Mill baghouse, Cooler ESP and Cement Mill baghouse. All CEMS are connected to SPCB and CPCB server.</p> <p>Kiln Bag House designed for emission below 30 mg/Nm³. Hence no additional APCDs are envisaged. Low NO_x burner installed and NO_x values are well within the limit prescribed by MoEF&CC i.e. below 800 mg/Nm³.</p> <p>All OCEMS are calibrated on Every three months basis</p> <p>Photos Enclosed as Annexure-I.</p>
iii.	All the pollution control devices / equipment in raw mill/kiln, kiln feeding system, clinker cooler, coal mill, cement mill and cement silo, shall be interlocked so that in the event of the pollution control devices / systems not working, the respective unit(s) shut down automatically.	Interlocking system has been provided to all pollution control devices.
iv.	Possibilities shall be explored for the proper and full utilization of gaseous generated from the kiln in waste heat recovery boiler (WHRB) and a feasibility report shall be prepared and a plan for implementation submitted to MoEFCC, RO Chennai.	<p>Feasibility of WHRB for utilization of waste heat gaseous generated from kiln and clinker cooler was explored for 7.5 MW capacities.</p> <p>Consent for establishment obtained from APPCB vided order dated 14.08.2018.</p> <p>WHRB power plant is commissioned after obtained Consent to operate from APPCB vided order dated 28.09.2019.</p>
v.	Secondary fugitive emissions shall be controlled and should be within the prescribed limits & regularly monitored. Guidelines /Code of practice issued by the CPCB in this regard shall be followed.	<p>Cement Concrete (CC) roads are laid and housekeeping is being maintained to control secondary fugitive emissions.</p> <p>CPCB Environmental Guidelines for Prevention and Control of Fugitive Emissions from Cement Plants are being followed</p>

S.No.	Specific conditions	Compliance status
		<ul style="list-style-type: none"> • All transfer points and storage silos are provided with dust collection and extraction systems for effective control of fugitive emissions. • Shed are provided for raw materials storage. • Apart from this, Wind shelter fencing of 8 m (24 fts) height is constructed all around the raw materials storage yards. enclosed as Annexure-III • Fly ash handling by closed circuit pneumatic system. • All raw material transfer conveyors are covered with GI sheet. • Road sweepers & vacuum cleaner is deployed and good housekeeping is being maintained for controlling secondary fugitive dust emissions enclosed as Annexure-III. <p>Fugitive dust monitoring is being carried out at 3 locations as per Fugitive Dust Monitoring Guideline on monthly basis through third party M/s. Lawn Enviro Associates, Hyderabad.</p> <p>Sampling duration : 4 hrs No. of Locations : 03</p> <ul style="list-style-type: none"> • Near Coal yard • Near Limestone stock pile • Near Slag storage area.
vi.	Storage yard shall be lined and covered	<ul style="list-style-type: none"> • Shed are provided for raw materials storage. Apart from this, Wind shelter fencing of 8 m (24 fts) height is constructed all around the raw materials storage yards. • Clinker stored in clinker storage tank of capacity 50,000 tonnes. • Gypsum and additives are being stored in covered storage sheds with storage capacity of 5,000- tonnes and 5,000 tonnes respectively. • Fly ash is being stored in silos with total capacity of about 5,000 tonnes. • Cement is being stored in silos with total capacity of about 60,000 tonnes.
vii.	Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land. All the raw materials including fly ash shall be transported in the closed containers only and shall not be overloaded. The company shall have separate truck parking area. Vehicular emissions shall be regularly monitored.	Fly ash transported by closed containers only. Raw materials like Laterite, Slag are transported by tarpaulin covering. Separate truck parking provided and regular water sprinkling is carried out at truck parking area.
viii.	Total fresh water requirement after proposed expansion shall not exceed 1180m ³ /day. No ground water shall be used as proposed.	Obtained permission for the drawl of 3200 m ³ /day from SRBC / GNSS Flood flow Canal has been obtained from the Irrigation & C.A.D (PW - Reforms) Department,

S.No.	Specific conditions	Compliance status
		Government of Andhra Pradesh vide G.O.Ms.No.11 dated 22.01.2018 valid for 5 years. And water consumption has not exceeded 1180 m3/day. No ground water is used for cement manufacturing.
ix.	Efforts shall be made to further reduce water consumption by using air cooled condensers. All the treated wastewater shall be recycled and reused in the process and/or for dust suppression and greenbelt development and other plant related activities etc. No process wastewater shall be discharged outside the factory premises and zero discharge should be adopted.	Cement manufacturing is dry process. No process wastewater is generated in cement manufacturing. Colony domestic wastewater is treated in STP and is utilized 100% for gardening purpose.
x.	Rain water harvesting plan shall be prepared and shall supplement the water requirement of the project. The plan shall be submitted to RO of the MoEFCC within 3 months from the date of issue of the later.	Rain Water Harvesting & recharge structures constructed in & around the cement plant premises. All the storm water drains are connected to Rain Water Harvesting and recharge structures. Photos Enclosed as Annexure-IV .
xi.	Regular monitoring of influent and effluent surface, sub-surface and ground water should be ensured and treated wastewater should meet the norms prescribed by the State Pollution control Board or described under the EP Act 1986 whichever are more stringent.	Cement manufacturing is dry process. No process wastewater is generated in cement manufacturing. Regularly monitoring treated domestic wastewater and parameters are well below prescribed limits.
xii.	Plan for use of fly ash in making PPC shall be prepared only after ascertaining its radioactive level shall fly ash be supplied for utilization in cement manufacturing.	Fly ash being utilised in cement manufacturing process April-2022 to September-2022 Fly ash utilized –134590.7 MT tonnes.
xiii.	The proposed cement plant kiln shall be provided with a flexible fuel feeding system to enable use of hazardous such as oil sludge, cut tyres, etc. The proponent shall examine and prepare a plan for utilization of high calorific wastes such as chemical wastes, distillation residues, refuse derived fuels, etc as alternate fuel based on availability and composition. For this, the proponent shall identify suitable industries with such wastes and enter into an MOU for long term utilisation of suchwastes as per the E(P) Rules, 1986 and with necessary approvals.	Provision is made for utilization of high calorific hazardous waste in cement kiln. Regular permission for co-processing of HW has been obtained from APPCB. 2164.84 MT of hazardous waste (organic solid waste) utilized in our kiln during the period April -22 to September-22
xiv.	All the bag filter dust, raw meal dust, coal dust, clinker dust and cement dust from pollution control devices shall be recycled and	All the dust collected in bag filters is recycled in cement manufacturing.

S.No.	Specific conditions	Compliance status																																																
	reused in the process and used for cement manufacturing. Sludge from domestic sources shall be used as manure for green belt development. Spent oil and batteries shall be sold to authorized recyclers / re-processors only.	STP sludge is being utilizing as manure for green belt. Waste oil and batteries are sold to authorized recyclers / Re-processors only.																																																
xv.	Greenbelt shall be developed in at least 33% area in and around the cement plant as per the CPCB guidelines to mitigate the effects of air emissions in consultation with local DFO.	Greenbelt is developed in about 163.1 acres in and around cement plant premises. Year wise green belt details given below. 44% has been covered with green belt form the total area. <table border="1" data-bbox="826 763 1469 1485"> <thead> <tr> <th>Year</th> <th>No's of Saplings</th> <th>Area covered in Acres</th> </tr> </thead> <tbody> <tr><td>2010-11</td><td>2500</td><td>8.5</td></tr> <tr><td>2011-12</td><td>2500</td><td>8.5</td></tr> <tr><td>2012-13</td><td>4000</td><td>13.3</td></tr> <tr><td>2013-14</td><td>4000</td><td>13.3</td></tr> <tr><td>2014-15</td><td>11800</td><td>24.5</td></tr> <tr><td>2015-16</td><td>15000</td><td>35</td></tr> <tr><td>2016-17</td><td>8787</td><td>24</td></tr> <tr><td>2017-18</td><td>3871</td><td>10</td></tr> <tr><td>2018-19</td><td>6023</td><td>09</td></tr> <tr><td>2019-20</td><td>5359</td><td>06</td></tr> <tr><td>2020-21</td><td>4168</td><td>05</td></tr> <tr><td>2021-22</td><td>4193</td><td>04</td></tr> <tr><td>2022-23</td><td>1812</td><td>02</td></tr> <tr><td>Up to Sept</td><td></td><td></td></tr> <tr><td>Total</td><td>62538</td><td>163.1</td></tr> </tbody> </table>	Year	No's of Saplings	Area covered in Acres	2010-11	2500	8.5	2011-12	2500	8.5	2012-13	4000	13.3	2013-14	4000	13.3	2014-15	11800	24.5	2015-16	15000	35	2016-17	8787	24	2017-18	3871	10	2018-19	6023	09	2019-20	5359	06	2020-21	4168	05	2021-22	4193	04	2022-23	1812	02	Up to Sept			Total	62538	163.1
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xvi.	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Cement plants shall be implemented.	Compliance report enclosed as Annexure-V .																																																
xvii.	All the commitments made to the public during the Public hearing / Public consultation meeting held on the project for the existing EC shall be satisfactorily implemented and a separate budget for implementing the same shall be allocated and information submitted to the RO Chennai.	Not applicable - Public hearing was exempted for the expansion project.																																																
xviii.	At least 5 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment based on Public Hearing Issues and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office at	5% of the project cost i.e Rs.1.1 crores earmarked towards the Enterprise Social Commitment for 5 years. Need based assessment have been carried out in nearby villages and as per the study action plan is being																																																

S.No.	Specific conditions	Compliance status
	Bangalore. The proponent shall prepare a detailed CSR Plan for every next 5 years for the existing-cum expansion project, which includes village-wise, sector-wise (Health, Education, Sanitation, Health, Skill Development and infrastructure requirements such as strengthening of village roads, avenue plantation, etc) activities in consultation with the local communities and local administration. The CSR Plan will include the amount of 2% retain annual profits as provided for in Clause 135 of the Companies Act, 2013 which provides for 2% of the average net profits of previous 3 years towards CSR activities for life of the project. A separate budget head shall be created and the annual capital and revenue expenditure on various activities of the Plan shall be submitted as part of the Compliance Report to RO, Bangalore. The details of the CSR Plan shall also be uploaded on the company website and shall also be provided in the Annual Report of the company.	<p>executed.</p> <p>2010-2014 CSR : Rs. 57.50 Lakhs 2014-2015 CSR : Rs. 84.00 Lakhs 2015-2016 CSR : RS. 65.00 Lakhs 2016-2017 CSR ; RS. 91.07 Lakhs 2017-2018 CSR : Rs. 27.49 Lakhs 2018-2019 CSR : Rs. 62.54 Lakhs 2019-2020 CSR : Rs. 72.80 Lakhs 2020-2021 CSR : RS 323.12 Lakhs 2022-2023 CSR RS 105.7 Lakhs Up to Sept-2022</p> <p>Some of the CSR carried out are as below.</p> <ol style="list-style-type: none"> 1.Contribution for formation of internal CC roads with side drains and culverts in the villages of Yanakandla, Venkatapuram, Hussainapuram & Erragudi 2.Contributed towards CM Relief fund for COVID-19 3. Distribution of Essential Commodities in Surrounding villages of Banaganapalle Mandal. 4. Distributed to Collector, Kurnool for procuring Sanitizers, hand Gloves' & PPE Kits 5. Anganwadi Kendram Yanakandla.
xix.	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, Safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Not applicable – no construction activity involved for the expansion project
xx.	Risk assessment study and Disaster Preparedness and Management Plan with a focus on Disaster Prevention along with the mitigation measures should be prepared and a copy submitted to the Ministry's Regional Office, SPCB and CPCB within 3 months of issue of environment clearance letter.	On site emergency plan has been prepared and implemented.

B. GENERAL CONDITIONS:-

S.No.	General conditions	Compliance status
i.	The project authorities must strictly adhere to the stipulations made by APPCB and the State Govt.	Obtained CFO from APPCB under the Air & Water Act, valid up to 31.12.2022
ii.	No further expansion or modifications in the plant shall be carried out without prior	No further expansion or modification of the plant will be

S.No.	General conditions	Compliance status
	approval of the MoEFCC.	carried out without prior approval of the Ministry.
iii.	At least four ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of PM10, PM2.5, SO2 & NOx are anticipated in consultation with SPCB. Data on ambient air quality & stack emissions shall be regularly submitted to this Ministry including its Regional Office at Chennai and SPCB/CPCB once in six months.	<p>Four manual ambient air quality monitoring stations established in the downward direction.</p> <p>Three continuous ambient air quality monitoring stations (CAAQMS) installed and connected to PCB server.</p> <p>Data on ambient air quality and stack emissions are being submitted to the Ministry including the Regional Office once in six months & APPCB monthly basis.</p> <p>Stack Emission and Ambient Air Quality data for the period April-22 to September-22 enclosed as Annexure-II.</p>
iv.	Industrial wastewater shall be properly collected treated so as to conform to the standards prescribed under GSR 422(E) dated 19th May, 1933 and 31st December, 1993 or as amended from time to time .The treated wastewater shall be utilized for plantation purpose.	Cement manufacturing is dry process. No process wastewater is generated in cement manufacturing. Colony domestic wastewater is treated in STP and is utilized 100% for gardening purpose.
v.	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods. Silencer enclosures etc. On all sources of noise generation .The ambient noise levels shall conform to the standards prescribed under Environmental (Protection Act 1935 Rules 1980 viz 75 dBA(day time) and 70 dBA night time.	<p>The Noise levels are being monitored at various working locations and is below 85 dB(A). To control high noise levels acoustic enclosure are provided at various locations. Ambient noise levels are well within the prescribed standards under EPA.</p> <p>The ambient noise at boundary of cement plant are being maintained below 75 dBA (day time) and 70 dBA night time. Noise Monitoring data enclosed as Annexure-II.</p>
vi.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Occupational Health Surveillance Programme is being conducted on a regular basis & records maintained. The Programme includes lung function & sputum analysis test once in six months.
vii.	The company shall develop rain water harvesting structure to harvest the rain water for utilization in the lean season besides recharging the ground water table.	<p>Rain Water Harvesting & recharge structures constructed in & around the cement plant premises. All the storm water drains are connected to Rain Water Harvesting and recharge structures.</p> <p>Photos attached as Annexure-IV</p>
viii.	The project proponent shall also comply with all the environmental protection measures and safeguard recommended in the EIA/EMP report. Further, the company must undertake socio -economic development activities in the surrounding villages like community development programmes, educational	<p>Environmental protection measures as recommended in the EIA/EMP report are being complied.</p> <p>5% of the project cost i.e Rs.1.1 crores earmarked towards the Enterprise Social Commitment for 5 years.</p> <p>Need based assessment have been carried out in nearby villages and as per the study action plan is being execute.</p>

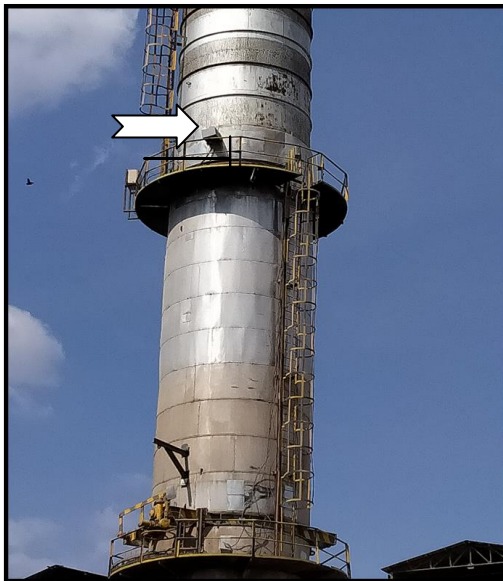
S.No.	General conditions	Compliance status
	programmes, drinking water supply and health care etc.	<p>2010-2014 CSR : Rs. 57.50 Lakhs 2014-2015 CSR : Rs. 84.00 Lakhs 2015-2016 CSR : RS. 65.00 Lakhs 2016-2017 CSR ; RS. 91.07 Lakhs 2017-2018 CSR : Rs. 27.49 Lakhs 2018-2019 CSR : Rs. 62.54 Lakhs 2019-2020 CSR : Rs. 72.80 Lakhs 2020-2021 CSR : RS 323.12 Lakhs 2022-2023 CSR RS 105.7 Lakhs Up to Sept-2022</p> <p>Some of the CSR carried out are as below.</p> <ol style="list-style-type: none"> 1. Contribution for formation of internal CC roads with side drains and culverts in the villages of Yanakandla, Venkatapuram, Hussainapuram & Erragudi 2. Contributed towards CM Relief fund for COVID-19 3. Distribution of Essential Commodities in Surrounding villages of Banaganapalle Mandal. 4. Distributed to Collector, Kurnool for procuring Sanitizers, hand Gloves' & PPE Kits 5. Anganwadi Kendram Yanakandla.
ix.	Requisite funds shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the MoEFCC as well as the State Government. An implementation schedule for implement all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Chennai. The funds so provided shall not be diverted for any other purposes.	<p>The funds earmarked for environmental protection is not diverted for any other purposes.</p> <p>Capital Expenditure - Rs. 150.5 Lakhs spent for environmental protection measures.</p> <p>Recurring Expenditure - Rs.72.3 Lakhs for environmental protection measures for 2021-22</p>
x.	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, ZilaParishad/Municipal Corporation, Urban Local Body and the local NGO, if any, from whom and suggestion / representation, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.	<p>The Environment clearance letter has been uploaded in company website.</p> <p>http://www.mahacement.com/sustainability/environment/</p>
xi.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their web site and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF&CC at Bhubaneswar. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely;	<p>Last EC Compliance report October-21 to March-22 has been uploaded in company web site.</p> <p>http://www.mahacement.com/sustainability/environment/</p>

S.No.	General conditions	Compliance status
	PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	
xii.	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEF&CC, their respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Bangalore/ CPCB / SPCB shall monitor the stipulated conditions.	A six monthly compliance report is being submitted to the Ministry at Chennai regularly. Last six months half yearly EC compliance report for the period October-2021 to March-22 submitted on 18.05.2021 to ecompliance-ap@gov.in as per MoEF Notification no. SO 5845(E) SO 5845(E)
xiii.	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 environmental conditions and shall also be sent to the respective Regional Office of the MOEF&CC at Bangalore by e-mail.	Environmental statement for the year 2021-22 was submitted to APPCB on 03.09.2022 and also uploaded the same on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the Regional office of the MoEF & CC at Chennai by e-mail.
xiv.	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 and may also be seen at Website of the Ministry of Environment, Forests and Climate Change (MoEF&CC) at http://envfor.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 Regional office at Bangalore.	Advertisement had given in two new papers on 06.05.2015. 1. Eenadu - Telugu New Paper. 2. The New Indian Express - English.
xv.	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	EC dt 28.04.2015 accorded for expansion of clinker production by modernization in existing cement plant. Plant commissioned after modernization in Sept 2015.

S.No.	General conditions	Compliance status
	date of commencing the land development work.	

Annexure – I

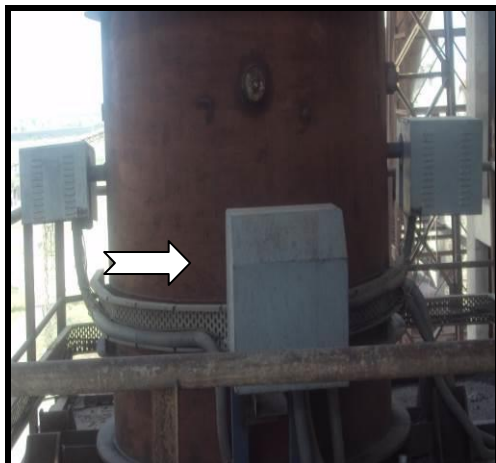
Photos of Continuous Emission Monitoring Systems



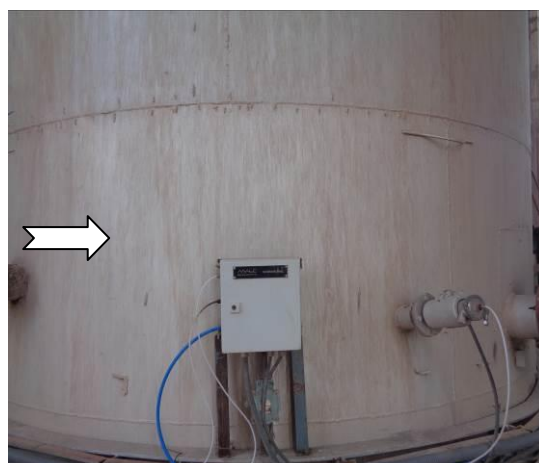
Cooler Stack



Coal Mill Stack



Cement Mill Stack



Kiln Stack

Annexure –II

Stack emission monitoring data (PM in mg/Nm³)

Stack Name	Parameter	Apr-22	May-22	Jun-22	July-22	Aug-22	Sept-22
Kiln Stack	SPM	16	25.3	18.7	16	14.9	16.7
	SO ₂	1.2	15	12.9	9.7	8.1	6.9
	NO _x	324.8	250.2	241.3	230.3	235.6	223.52
Coal Mill Stack	SPM	17.5	20.6	16.7	18.2	17.5	15.7
Cooler Stack	SPM	21.3	24.8	21.9	19.5	17.6	20.4
Cement Mill Stack	SPM	15.8	19.5	13.65	15.8	12.9	14.7
Lime Stone Crusher Stack	SPM	25.6	23.9	22.4	23.6	21.9	22.8

Ambient Air Quality Monitoring Data

PM ₁₀ (µg/m ³)	Apr-22	May-22	Jun-22	July-22	Aug-22	Sept-22
Cement Plant Main Gate	62.9	68.2	65.5	62.9	64.7	66.8
Near Colony	54.7	56.3	54.1	52.7	50.2	54.7
Near RO Plant	68.2	64.5	61.9	67.8	69.7	67.1
Near Packing Plant	75.6	77.3	72.6	76.29	73.44	71.6

PM2.5 ($\mu\text{g}/\text{m}^3$)	Apr-22	May-22	Jun-22	July-22	Aug-22	Sept-22
Cement Plant Main Gate	24	27.1	25.7	23.4	24.6	26.1
Near Colony	20.2	23.8	22.3	19.5	17.9	21.2
Near RO Plant	26.5	23.8	24.7	26.4	27.6	25.7
Near Packing Plant	30.4	32.9	30.4	32.75	30.25	28.4

SO2 ($\mu\text{g}/\text{m}^3$)	Apr-22	May-22	Jun-22	July-22	Aug-22	Sept-22
Cement Plant Main Gate	10.7	11.6	9.6	12.2	11.5	13
Near Colony	7.3	6.4	7.4	9.3	6.5	7.6
Near RO Plant	11.4	9.2	8.4	9.7	10.3	9.6
Near Packing Plant	12.2	10.5	12.1	10.4	12.1	11.3

Nox ($\mu\text{g}/\text{m}^3$)	Apr-22	May-22	Jun-22	July-22	Aug-22	Sept-22
Cement Plant Main Gate	21.2	23.4	21.4	24.6	22.4	25.2
Near Colony	16.4	17.5	18.3	17.2	16.3	18.4
Near RO Plant	23.1	21.5	16.3	19.3	21.6	20.7
Near Packing Plant	26.7	25.1	23.6	22.7	24.7	22.3

Noise Monitoring Data (Ldn)

Location	Apr-22	May-22	Jun-22	July-22	Aug-22	Sept-22
Near Packing plant	67.1	67.5	67.1	66.9	68.1	67.1
Near Cement Plant	68.3	72.6	71.3	68.3	67.4	69.3
Near CCR	54.4	59.3	58.4	59.8	53.6	55.6
Near Time Office	56.6	57.5	60.2	61.3	59.7	58.4
Near Main Gate	61.7	64.1	63.1	62.9	63.1	61.7
Near Temple	60.8	60.9	59.8	54.6	55.9	56.2
Near Raw Mill Area	68.2	73.4	69.2	70.4	68.4	66.7
Near Stores	64.9	63.8	62.7	63.2	61.9	59.4
Near Sub Station	63.8	66.8	61.9	60.3	62.8	60.8
Near Dispensary	58.3	62.7	52.7	58.1	57.4	55.4

Annexure –III



Road Sweeping Machine



Vacuum Cleaner



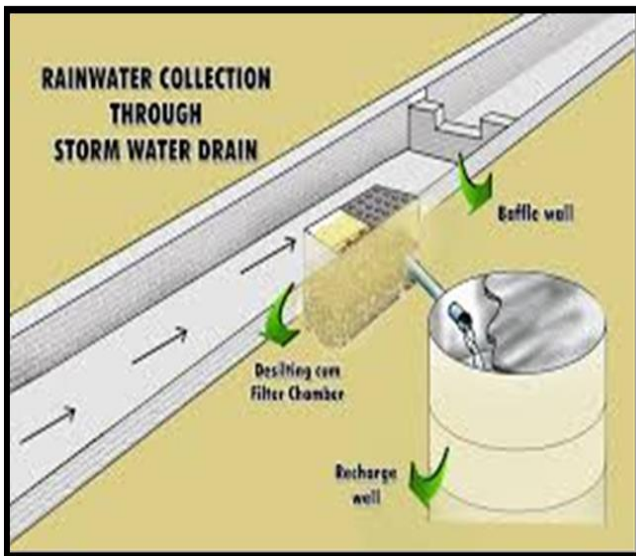
Floor Sweeping Machi

WIND SHELTER FENCING

Annexure –III



Annexure –IV



Rain Water Harvesting Structure

Annexure –V

**Compliance Report on
Corporate Responsibility for Environmental Protection (CREP)**

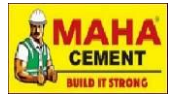
S. No	Condition	Compliance Status
1	Cement Plants, which are not complying with notified standards, shall do the following to meet the standards; Augmentation of existing Air Pollution Control Devices - by July 2003 Replacement of existing Air Pollution Control Devices - by July 2004	Complying with the new emission standards for PM, SO ₂ & NO _x notified by MoEFCC as per G.S.R 612 (E) dated 25.08.2014
2	Cement Plants located in critically polluted or urban areas (including 5 km distance outside urban boundary) will meet 100 mg/ Nm ³ limit or particulate matter by December 2004 and continue working to reduce the emission of particulate matter to 50 mg/Nm ³ .	Not applicable – Our cement plant is not located in critically polluted or urban areas
3	The new cement kilns to be accorded NOC/Environmental Clearance w.e.f 01.04.2003 will meet the limit of 50 mg/Nm ³ for particulate matter emissions.	Kiln emission is control through high efficient pulsejet bag house to meet the standard of PM < 30 mg/Nm ³ .
4	CPCB will evolve load based standards by December 2003.	--
5	CPCB and NCBM will evolve SO ₂ and NO _x emission standards by June 2004.	Complying with the new emission standards for SO ₂ & NO _x notified by MoEFCC as per G.S.R 612 (E) dated 25.08.2014, GSR 497(E) dated :10.05.2016

S. No	Condition	Compliance Status
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 recommendations within three months.	<p>CPCB Environmental Guidelines for Prevention and Control of Fugitive Emissions from Cement Plants are being followed</p> <ul style="list-style-type: none"> All transfer points and storage silos are provided with dust collection and extraction systems for effective control of fugitive emissions. The dust collected from the pollution control equipment is being recycled back into the process. Clinker is being stored in clinker storage tank of capacity 50,000 tonnes to control fugitive emissions. Gypsum and additives are being stored in covered storage sheds with storage capacity of 5000 tonnes. Fly ash is being stored in silos with total capacity of about 5000 tonnes and pneumatic system for fly ash handling. Cement is being stored in silos with total capacity of about 60,000 tonnes All raw material transfer conveyor are covered with GI sheet. Truck mounted vacuum cleaner and road sweeper are deployed and good housekeeping is being maintain for controlling secondary fugitive dust emissions.
7	CPCB, NCBM, BIS and Oil refineries will jointly prepare the policy on use of petroleum cokes as fuel in cement kiln by July 2003.	-----
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 online emission monitoring equipment installed for 4 major stacks Online data is connected to CPCB & APPCB servers.</p> <ol style="list-style-type: none"> Kilns Bag house stack; Clinker Cooler ESP stack; Coal mill bag house stack; and Cement mill bag house stack.
9	Tripping in kiln ESP to be minimized by July 2003 as per the recommendations of NTF.	Pulsejet Bag house is provided for all Kiln. No tripping is envisaged
10	Industries will submit the target date to enhance the utilization of waste material by April, 2003.	<p>Fly ash, gypsum and slag are being utilised in cement manufacturing process. Waste material utilized April-2022 to September-2022</p> <p>Fly ash - 134590.728 MT Gypsum- 45327.03 MT Slag - 120030.295 MT</p>
11	NCBM will carry out a study on hazardous waste utilization in cement kiln by December 2003.	2164.84 MT of hazardous waste (organic solid waste) utilized in our kiln during the period of April-2022 to September-2022



Sree Jayajothi Cements Private Limited,

Yanakandla Village -518124,
Kurnool Dist, Andhra Pradesh



S. No	Condition	Compliance Status
12	Cement industries will carry out feasibility study and submit target dates to CPCB for co-generation of power by July 2003.	We have installed and commissioned 7.5 MW WHRB power plant. Utilizing hot gases generated from kiln and Cooler.