BK BIRLA GROUP OF COMPANIES

MANGALAM CEMENT LTD.

Birla Uttam

MANGALAM CEMENT LTD.

Regd. A/D

MCL/ENV-7 (II)/2020-21/ Dt: 30.11.2020

Director
Central Pollution Control Board,
(Ministry of Environment of Forest, Govt. of India)
Parivesh Bhawan
East Arjun Nagar
Dehli - 110032

Sub.:-"Six Monthly Compliance Report for the period April-2020 to September-2020 for the expansion of cement plant (1.32 MTPA) clinker & 2.3 MTPA cement production M/s Mangalam Cement Environmental clearance.

Ref.:- Environment Clearance F NO. J - 11011 /110 /2012 - IA II (I), dtd 22.03.2013.

Dear Sir,

We are submitting herewith the six monthly compliance report of Environment Clearance issued by MoEF&CC vide their letter no. F NO. J - 11011 /110 /2012 - IA II (I), dtd 22.03.2013 for expansion of cement plant (1.32 MTPA) clinker & 2.3 MTPA cement production of M/s Mangalam Cement Limited (Unit-II), Village: Morak, Dist: Kota (Rajasthan). Submitted for your kind information & records please.

Thanking you,
Yours faithfully,
For Mangalam cement Ltd. (Unit - II)

P. R. Chaudhary
Sr. Joint President (Operation) & FM

Cc to: Director,
Government of India
Ministry of Environment & Forests,
Regional office (Central Region)
Kendriya Bhawan, 5th floor,
Sector 'H' Aliganj,Lucknow - 226024
: Sr. Environment Engineer (CPM)
Rajasthan Pollution Control Board,
4, Institutional Area,
Jhalana Doongri, Jaipur (Raj.)
: Regional Director,
Central Pollution Central Board,
Zonal Office (Central),
3rd Floor, Sahakar Bhawan,
North T. T. Nagar, Bhopal-462003

Regd. Office & Works : P.O. Aditya Nagar-326520, Morak, Distt. Kota (Raj.) CIN : L26943RJ1976PLC001705, Telefax : 07459 - 232156
Website : www.mangalamcement.com, E-mail : email@mangalamcement.com
Kota Office : Shop No. 20, 80 Feet Road, Opp. Sukhdham Colony, (Near SBI Bank) Kota - 324001(Rajasthan)
Mob : 9351468064 / 9351468055 / 9351468445, E-mail : mclkta@kappa.net.in
Delhi Office : 153, Leela Building (GF), Okhla Indl. Estate, Phase-III, New Delhi - 110020
Tel. No. : 011- 43539132, 43539133, 43539137 Fax : 011- 23421768
E-mail : delhi.purchase@mangalamcement.com, delhi.marketing@mangalamcement.com
Jaipur Office : 2nd Floor, Geejgarh Tower, Hawa-Sarak, Jaipur - 302 006 (Rajasthan)
Tel. : 0141 - 2218933, 2218931, E-mail : jaipur.marketing@mangalamcement.com

Mangalam Cement Ltd. (Unit-II)

Name of the Project :- Expansion of cement grinding capacity from 1.7 MTPA to 2.3 MTPA	**Project Code :-**

Clearance Letter No. : - F NO. J - 11011 /110 /2012 - IA II (I), dtd 22.03.2013

Month of Compliance Report :- April – 2020 to Sept. 2020

SPECIFIC CONDITIONS

S. No	Conditions	Compliance Status
i.	Particulate emissions shall be controlled within 50 mg/Nm3 by installing adequate air pollution control system viz. Bag filters and stacks of adequate height etc. Data on ambient air, fugitive and stack emission shall to be Ministry's Regional Office at Lucknow, State Pollution Control Board (SPCB) and CPCB regularly.	The Particulate emissions from all units are within the norms as per prescribed by state pollution control board. Every six monthly data are being sent to Regional office at Lucknow, Rajasthan pollution control board at Jaipur and Central Pollution control board, Delhi.
Ii	The National Ambient Air Quality Standard issued by the Ministry vide G.S.R. No. 826 (E) dated 16th November, 2009 should be followed.	We are following National Ambient Air Quality Standard issued by Ministry of Environmental and Forest.

Mangalam Cement Ltd. (UNIT-II)

Stack No.	Details of Stack	Particulates Matter Concentration (mg/Nm3)
		Avg.
1	Kiln Main Stack	18.8
2	Clinker Cooler Stack	24.4
3	Cement mill Stack	18.4
4	Coal mill stack	14.9

iii	Gaseous emission levels including secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines/Code of practice issued by the CPCB should be followed.	Gaseous emission levels and fugitive emission level is controlled and under the latest permissible limits. We shall follow guidelines / code of practice issued by the CPCB.

Mangalam Cement Ltd. (UNIT-II)

Stack No.	Details of Stack	Particulates Matter Concentration (mg/Nm3)
		Avg.
1	Kiln Main Stack	18.8
2	Clinker Cooler Stack	24.4
3	Cement mill Stack	18.4
4	Coal mill stack	14.9

Mangalam Cement Ltd. (UNIT-II)

Ambient Air Quality Monitoring Results

Sr No	Location → Parameters ↓	Norms (µg/m3)	Near Railway Gate	Near Security Gate	Near Rack Loading Area	Near Work Shop
		Avg.				
1	PM_{10}	100	72.1	60.9	70.9	69.4
2	$PM_{2.5}$	60	39.5	25.6	36.4	29.8
3	SO_2	80	6.6	5.7	5.9	5.2
4	NOx	80	15.9	13.0	14.3	13.0
5	CO	4000	300.0	300.0	365.0	230.0

Mangalam Cement Ltd. (UNIT-II)

Results of Fugitive Emission

S.No.	Location	SPM (µg/m³)
		Avg.
1	Near Coal Storage area	377.0
2	Near Cement Mill	394.1
3	Raw material storage area	403.4
4	Stacker & Reclaimer	433.6
5.	Near Packing Plant	443.9
6.	Near Time Office	378.3
7.	Near Crusher	444.3
8.	Near Additive Storage	398.2
9.	Near Central Stock Pile	411.8

<table>
<tr>
<td>iv</td>
<td>The company shall install adequate dust collection and extraction system to control fugitive dust emissions at various transfer points, raw mill handling (unloading, conveying, transporting, stacking), vehicular movement, bagging and packing areas etc. All the raw material stock piles should be covered with GI sheets. Covered sheds for storage of raw materials and fully covered conveyers for transportation of materials shall be provided besides coal, cement, fly ash and clinker shall be stored in silos. Pneumatic system shall be used for fly ash handling.</td>
<td>We have installed adequate ESP / Bag filters at all transfer point's, raw material handling for control fugitive dust emissions and regularly spraying water at plant roads, hoppers and raw material storage areas for control fugitive emission by vehicular movements. All raw material Storage and belt conveyors are covered by GI sheets. Cement is stored in silos. Fly ash is stored in silos and pneumatic system is available for fly ash handling.
<table>
<tr><th colspan="3">Results of Fugitive Emission</th></tr>
<tr><th rowspan="2">S.No.</th><th rowspan="2">Location</th><th>SPM (µg/m³)</th></tr>
<tr><th>Avg.</th></tr>
<tr><td>1</td><td>Near Coal Storage area</td><td>377.0</td></tr>
<tr><td>2</td><td>Near Cement Mill</td><td>394.1</td></tr>
<tr><td>3</td><td>Raw material storage area</td><td>403.4</td></tr>
<tr><td>4</td><td>Stacker & Reclaimer</td><td>433.6</td></tr>
<tr><td>5.</td><td>Near Packing Plant</td><td>443.9</td></tr>
<tr><td>6.</td><td>Near Time Office</td><td>378.3</td></tr>
<tr><td>7.</td><td>Near Crusher</td><td>444.3</td></tr>
<tr><td>8.</td><td>Near Additive Storage</td><td>398.2</td></tr>
<tr><td>9.</td><td>Near Central Stockpile</td><td>411.8</td></tr>
</table>
</td>
</tr>
<tr>
<td>V</td>
<td>Asphalting/concreting of roads and water spray all around the stockyard and loading/unloading areas in the cement plant shall be carried out to control fugitive emissions. Regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of SPM and RSPM such as haul road, loading and unloading points, transfer points and other vulnerable areas. It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.</td>
<td>Concrete roads and floors are provided in the plant to improve the ambient air quality. Regularly water spray systems are provided at plant roads, hoppers and raw material storage areas for control fugitive emission. Two sweeping machine is available for cleaning of plants roads. Our ambient air quality parameters are within the norms prescribed by the Central pollution control board.
<table>
<tr><th colspan="7">Mangalam Cement Ltd. (UNIT-II)</th></tr>
<tr><th colspan="7">Ambient Air Quality Monitoring Results</th></tr>
<tr><th rowspan="2">Sr No</th><th rowspan="2">Location → Parameters ↓</th><th rowspan="2">Norms (µg/m3)</th><th>Near Railway Gate</th><th>Near Security Gate</th><th>Near Rack Loadin Area</th><th>Near Work Shop</th></tr>
<tr><th></th><th colspan="4">Avg.</th></tr>
<tr><td>1</td><td>PM10</td><td>100</td><td>72.1</td><td>60.9</td><td>70.9</td><td>69.4</td></tr>
<tr><td>2</td><td>PM2.5</td><td>60</td><td>39.5</td><td>25.6</td><td>36.4</td><td>29.8</td></tr>
<tr><td>3</td><td>So_2</td><td>80</td><td>6.6</td><td>5.7</td><td>5.9</td><td>5.2</td></tr>
<tr><td>4</td><td>Nox</td><td>80</td><td>15.9</td><td>13.0</td><td>14.3</td><td>13.0</td></tr>
<tr><td>5</td><td>CO</td><td>4000</td><td>300.0</td><td>300.0</td><td>365.0</td><td>230.0</td></tr>
</table>
<table>
<tr><th colspan="3">Mangalam Cement Ltd. (UNIT-II)</th></tr>
<tr><th colspan="3">Results of Fugitive Emission</th></tr>
<tr><th rowspan="2">S.No.</th><th rowspan="2">Location</th><th>SPM (500 µg/m³)</th></tr>
<tr><th>Avg.</th></tr>
<tr><td>1</td><td>Near Coal Storage area</td><td>377.0</td></tr>
<tr><td>2</td><td>Near Cement Mill</td><td>394.1</td></tr>
<tr><td>3</td><td>Raw material storage area</td><td>403.4</td></tr>
<tr><td>4</td><td>Stacker & Reclaimer</td><td>433.6</td></tr>
<tr><td>5.</td><td>Near Packing Plant</td><td>443.9</td></tr>
<tr><td>6.</td><td>Near Time Office</td><td>378.3</td></tr>
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<tr><td>9.</td><td>Near Central Stockpile</td><td>411.8</td></tr>
</table>
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</table>

<table>
<tr>
<td>vi</td>
<td>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 should be transported in the closed containers only and should not be overloaded. Vehicular emissions should be regularly monitored.</td>
<td>All raw materials are stored in covered yard. Fly ash is coming from Kota and other place in the closed containers. Water spray system is available to control vehicular emissions. Vehicular emissions are regularly monitored and record maintained.
Raw Material Storage Water Spraying
 </td>
</tr>
<tr>
<td>vii</td>
<td>Total water requirement shall not exceed 1240 m^3/day. Efforts shall be made to further reduce water consumption by using air cooled condensers. All the treated wastewater should be recycled and reused in the process and/or for dust suppression and green belt development and other plant related activities etc. No process wastewater shall be discharged outside the factory premises and ‘zero’ discharge should be adopted.</td>
<td>We shall not exceed water requirement. We have used treated wastewater in green belt development within the factory premises and maintained Zero wastewater discharged.</td>
</tr>
<tr>
<td>Viii</td>
<td>Efforts shall be made to make use of rain water harvested. If needed, capacity of the reservoir shall be enhanced to meet the maximum water requirement. Only balance water requirement shall be met from other sources.</td>
<td>Making use of rain water harvested, capacity of reservoir is sufficient to meet the water requirement.
<u>Rain Water Harvesting</u>
<table>
<tr><th colspan="3">Mangalam Cement Ltd.</th></tr>
<tr><th colspan="3">Details Of water Harvesting</th></tr>
<tr><th>S.No.</th><th>Location</th><th>Roof Area (m2)</th></tr>
<tr><td>1.</td><td>Engineering Building</td><td>725</td></tr>
<tr><td>2.</td><td>Load Center Building</td><td>1458</td></tr>
<tr><td>3.</td><td>Store Building</td><td>1620</td></tr>
<tr><td>4.</td><td>Captive Power Plant-I</td><td>1200</td></tr>
</table>
</td>
</tr>
</table>

<table>
<tr><td>Ix</td><td>All the bag filter dust, raw meal dust, clinker dust and cement dust from pollution control devices should be recycled and reused in the process used for cement manufacturing. Spent oil and batteries should be sold to authorized recyclers/ reprocesses only.</td><td>All bag filters and ESP dust totally recycled and reused in the ourplant process. We are following guideline given by Pollution Control Board.</td></tr>
<tr><td>X</td><td>Green belt 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.</td><td>We are developing 33 % green belt area in & around of our cement plant, as per the CPCB guidelines.
<table>
<tr><td colspan="4">Mangalam Cement Ltd. Unit – II</td></tr>
<tr><td colspan="4">Year Wise Tree Plantation</td></tr>
<tr><td>Sr. No.</td><td>Year</td><td>Plant Names</td><td>Numbers</td></tr>
<tr><td>1</td><td>08-09</td><td rowspan="13">Neem, Karanj, Sheesam, Sirus, Bad, Peepal, Palash, Khejri, Chareel, Mango, Jamphal etc.</td><td>10000</td></tr>
<tr><td>2</td><td>09-10</td><td>11000</td></tr>
<tr><td>3</td><td>10-11</td><td>8000</td></tr>
<tr><td>4</td><td>11-12</td><td>9000</td></tr>
<tr><td>5</td><td>12-13</td><td>1700</td></tr>
<tr><td>6</td><td>13-14</td><td>1031</td></tr>
<tr><td>7</td><td>14-15</td><td>4599</td></tr>
<tr><td>8</td><td>15-16</td><td>1890</td></tr>
<tr><td>9</td><td>16-17</td><td>1919</td></tr>
<tr><td>10</td><td>17-18</td><td>2015</td></tr>
<tr><td>11</td><td>18-19</td><td>51</td></tr>
<tr><td>12</td><td>19-20</td><td>775</td></tr>
<tr><td>13</td><td>April to Sept. 2020</td><td>50</td></tr>
</table></td></tr>
<tr><td>xi</td><td>At least 5% of the total cost of the project shall be earmarked towards the Enterprise Social Commitment based on locals need and item-wise details along with time bound action plan should be prepared and submitted to the Ministry’s Regional Office at Lucknow. Implementation of such program should be ensured accordingly in a time bound manner.</td><td>We are following the condition as per guidelines. CSR Report for the period from April 2020 to September 2020 is attached in Annexure-VI.</td></tr>
</table>

xii	The company shall provide housing for 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.	We have maintained two colonies along with all facilities. It is not applicable us as we are undergoing for construction in existing plant. For existing labours we have marked colony with all facilities. Colony View Garden
General Conditions :-		
i	The project authorities must strictly the stipulations made by the Rajasthan State Pollution Control Board and the State Government.	We shall strictly the stipulations made by the Rajasthan State Pollution Control Board and the State Government.
ii	No further expansion or modification in the plant shall be carried out without prior approval of this Ministry of Environment and Forests.	For Expansion or modification of the plant we shall take prior approval of the Ministry.
iii	At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM10, SO2 and NOx are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Lucknow and the SPCB/CPCB once in six months.	Four ambient air qualities – monitoring stations are provided at the periphery of our factory premises for the monitoring of ambient air quality. The locations of these stations were decided in consultation with RO Kota. We are submitting data on ambient air quality and stack emissions to Regional office at Lucknow and RPCB, CPCB once in six months.

Mangalam Cement Ltd. (UNIT-II)

Ambient Air Quality Monitoring Results

Sr No	Location→ Parametrs ↓	Norms (µg/m3)	Near Railway Gate	Near Security Gate	Near Rack Loading Area	Near Work Shop
			Avg.			
1	PM10	100	72.1	60.9	70.9	69.4
2	PM2.5	60	39.5	25.6	36.4	29.8
3	So_2	80	6.6	5.7	5.9	5.2
4	NOx	80	15.9	13.0	14.3	13.0
5	CO	4000	300.0	300.0	365.0	230.0

iv	Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May 1993 31st December 1993 and as amended from time to time. The treated wastewater shall be utilized for plantation purpose.	Industrial waste water is being collected and treated as per GSR 422 (E) dtd. 19th May 1993 guidelines and used for plantation purpose after treatment.

<table>
<tr><td>v</td><td>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 silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).</td><td>Noise is being checked on regularly basis as per standard& limited within the prescribed standards.
<table>
<tr><th colspan="4">Mangalam Cement Ltd. (UNIT-II)</th></tr>
<tr><th colspan="4">Results of Noise</th></tr>
<tr><th rowspan="2">Sr. No.</th><th rowspan="2">Location</th><th colspan="2">Ambient Air Noise Results (dB)</th></tr>
<tr><th>Day Avg.</th><th>Night Avg.</th></tr>
<tr><td>1</td><td>Near Security Gate</td><td>60.7</td><td>50.5</td></tr>
<tr><td>2</td><td>Near Railway Gate</td><td>60.3</td><td>50.4</td></tr>
<tr><td>3</td><td>Near Rack Loading Area</td><td>62.0</td><td>53.0</td></tr>
<tr><td>4</td><td>Near Work Shop</td><td>58.2</td><td>49.0</td></tr>
</table></td></tr>
<tr><td>vi</td><td>Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.</td><td>We are maintaining Occupational health checkup of the workers regular basis as per the factories act. Report is enclosed herewith Annexure - VII</td></tr>
<tr><td>Vii</td><td>The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean seasons besides recharging the ground water table.</td><td>We have developed rainwater harvesting system at our plant buildings.
<u>Rain water Harvesting</u>

<table>
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</table></td></tr>
</table>

<table>
<tr><td>viii</td><td>The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.</td><td>Earmarked capital for environmental projects will be used exclusively for its implementations as maintained in EIA / EMP Reports. We shall implement this condition as per Enterprise Social Commitment scheme. CSR Report for the period from April 2020 to September 2020 is attached in Annexure-VI.</td></tr>
<tr><td>ix</td><td rowspan="3">Requisite funds shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Lucknow. The funds so provided shall not be diverted for any other purpose.</td><td>We agree the condition. Compliance report will be send to the all authorities regularly.</td></tr>
<tr><td></td><td>Mangalam Cement Ltd. (Unit-I,II, III & CPP-I & II)
Environmental expenditure incurred during the period from April 2020 to Sept. 2020 for environment protection measures.
<table>
<tr><th>S.No.</th><th>Department</th><th>Total Cost (In Rs.)</th></tr>
<tr><td>1.</td><td>Total Expenditures</td><td>59625937.74</td></tr>
</table></td></tr>
<tr><td></td><td></td></tr>
<tr><td>x</td><td>A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/ Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.</td><td>We have put the clearance letter on the website of the company.</td></tr>
<tr><td>Xi</td><td>The project proponent shall upload the status of compliance of the stipulated environment clearance condition, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF at Lucknow. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM_{10}, SO2, NOX (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a</td><td>We are uploading every six monthly report of plant monitoring results and compliance report of Environmental clearance condition time to time at our web site and same data are being send to the RO, Lucknow, CPCB, RPCB and Zonal office.</td></tr>
</table>

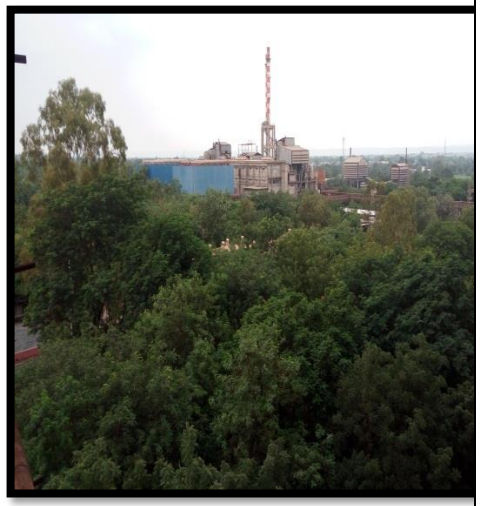
	convenient location near the main gate of the company in the public domain.	
xii	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of this Ministry at Lucknow/CPCB/SPCB shall monitor the stipulated conditions.	The resulting monitoring data are being submitted, six monthly reports in the month of June and Dec. every year and same copy being sent to the Regional office Lucknow, RPCB and Central Pollution Control Board regularly.
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 at Lucknow by e-mail.	We are submitting Environmental Statement before 30th September in every year and same data available at web site and one copy being sent by e-mail to the Regional office of the MoEF at Lucknow.
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 State Pollution Control Board may also be seen at Website of the Ministry of Environment and Forests 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 should be forwarded to the Regional office at Lucknow.	We had advertised information of Environmental clearance letter in two local newspapers in local language of the locality concerned and same copy sent to the Rajasthan Pollution Control Board, Jaipur and the Regional office at Lucknow.
xv	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	We will inform the regional office as well as to the ministry the date of financial closure and final approval of the project. This project is completed on Sept-2013

	authorities and the date of commencing the land development work.	

MANGALAM CEMENT LTD. (UNIT-II)

S. No.	Stack	Attached with
1.	Kiln	Hybrid Bag House
2.	Clinker cooler	ESP
3.	Cement mill	Hybrid Bag House
4.	Coal mill	Bag House

EXISTING PLANT	CAPTIVE POWER PLANT
CCR BUILDING	**PACKING PLANT AREA**

RAIN WATER STORAGE AT MINES	GARDEN	CPP PLANT VIEW
		
NEAR PLANT VIEW	COLONY VIEW	CENTRAL GARDEN VIEW

PLANTATION IN MANDIR AREA	RAIN WATER HARVESTING	PLANTATION IN MINES AREA
PLANTATION NEAR CRUSHER	PLANTATION NEAR CRUSHER	WATER SPRINKLING ON ROAD

CRUSHER MATERIAL TRANSFER BELT	COAL TRANSFER BELT	COVER RACK LOADING AREA
CLINKER TRANSFER BELT	**GYPSUM YARD**	**RAW MATERIAL TRANSFER BELT**

Annexure-I

Mangalam Cement Ltd. (UNIT-II)

Stack No.	Details of Stack	Stack Attached with	Height (Mtrs.)	Dia (Mtrs.)	Particulates Matter Concentration (mg/nm^3)		
					April 2020 to June 2020	July-2020 to Sept. -2020	Avg.
1	Kiln Main Stack	Hybrid Bag house	100	3.2	18.4	19.3	18.8
2	Clinker Cooler Stack	ESP	35	3.3	25.1	23.8	24.4
3	Cement mill Stack	Bag house	30	0.9	19.5	17.3	18.4
4	Coal mill stack	Bag house	60	1.35	15.5	14.3	14.9

Annexure-II

Mangalam Cement Ltd. (UNIT-II)

Ambient Air Quality Monitoring Results

Sr. No	Location Parameters	Near Railway Gate			Near Security Gate			Near Rack Loading Area			Near Work Shop		
		April 2020 to June 2020	July-2020 to Sept. - 2020	Avg.	April 2020 to June 2020	July-2020 to Sept. - 2020	Avg.	April 2020 to June 2020	July-2020 to Sept. - 2020	Avg.	April 2020 to June 2020	July-2020 to Sept. - 2020	Avg.
1	PM10 (µg/m3)	84.18	60.05	72.1	70.29	51.46	60.9	83.73	57.98	70.9	85.35	53.48	69.4
2	PM2.5 (µg/m3)	44.92	34.00	39.5	25.87	25.38	25.6	41.63	31.09	36.4	31.48	28.03	29.8
3	So2 (µg/m3)	7.41	5.72	6.6	4.84	6.55	5.7	4.50	7.36	5.9	4.59	5.78	5.2
4	NOx (µg/m3)	17.94	13.76	15.9	11.32	14.68	13.0	16.37	12.18	14.3	13.38	12.53	13.0
5	CO (µg/m3)	280.00	320.00	300.0	240.00	360.00	300.0	360.00	370.00	365.0	280.00	180.00	230.0

Annexure-III

Mangalam Cement Ltd. (UNIT-II)

Results of Noise

Sr. No.	Location	Ambient Noise Results (dB)A					
		April - 2020 to June - 2020		July – 2020 to Sept. 2020		Day Avg.	Night Avg.
		Day	Night	Day	Night	Day	Night
1	Near Security Gate	61.4	53.5	60.0	47.4	60.7	50.5
2	Near Railway gate	63.4	55.8	57.3	45.0	60.3	50.4
3	Near Rack loading area	65.3	57.6	58.7	48.3	62.0	53.0
4	Near Work Shop	60.3	51.2	56.2	46.8	58.2	49.0

Annexure-IV

Mangalam Cement Ltd. (UNIT-II)

Results of Fugitive Emission

S.No.	Location	SPM (µg/m³)		
		April 2020 to June 2020	July-2020 to Sept. -2020	Avg.
1	Near Coal Storage area	393.80	360.14	**377.0**
2	Near Cement Mill	431.80	356.41	**394.1**
3	Raw material storage area	416.50	390.33	**403.4**
4	Stacker & Reclaimer	482.14	385.15	**433.6**
5.	Near Packing Plant	462.05	425.81	**443.9**
6.	Near Time Office	451.70	304.81	**378.3**
7.	Near Crusher	496.10	392.46	**444.3**
8.	Near Additive Storage	410.15	386.18	**398.2**
9.	Near Clinker Stock Pile (CSP)	412.96	410.59	**411.8**

Annexure-V

Mangalam Cement Ltd. (Unit – II)

Year Wise Tree Plantation

Sr. No.	Year	Plant Names	Numbers	Survival Rate	Location	Area (hector)	
						Total Plant Area	Total 33 % Plantation area to be developed
1	08-09	Neem, Karanj, Sheesam, Sirus, Bad, Peepal, Palash, Khejri, Chareel, Mango, Jamphaletc	10000	70%	Plant & Colony	94	31.02
2	09-10		11000	70%	Plant & Colony	94	31.02
3	10-11		8000	70%	Plant & Colony	94	31.02
4	11-12		9000	70%	Plant & Colony	94	31.02
5	12-13		9000	70%	Plant & Colony	94	31.02
6	13-14		1031	70%	Plant & Colony	94	31.02
7	14-15		4589	70%	Plant & Colony	94	31.02
8	15-16		900	70%	Plant & Colony	94	31.02
9	16-17		747	70%	Plant & Colony	94	31.02
10	17-18		2015	70%	Plant & Colony	94	31.02
11	18-19		51	70%	Plant & Colony	94	31.02
12	19-20		775	70%	Plant & Colony	94	31.02
13	April 2020 to Sept. 2020		50	70%	Plant & Colony	94	31.02

Annexure-VI

MANGALAM CEMENT LIMITED (Unit-II)

CSR Report - April'20 to September'20		
S.No.	**Particular**	**Description**
1	Mask Distribution	The virus that causes COVID-19 is mainly transmitted through droplets generated when an infected person coughs, sneezes, or exhales. These droplets are too heavy to hang in the air, and quickly fall on floors or surfaces. So In the period of Covid-19 pandemic, we distributed mask to all surrounding villagers to protect them from CORONA and organised Virus protection activities in 8(Eight) sourranding villages like - Sahrawad Village, Askali Gram Panchayat, Morak Station Gram, Morak Goan, Barodiya Village, Chechat Village, Budhkhan Gram Panchayat, Hiriyakhedi Village.
2	Sanitizer Distribution	COVID-19 can Spread by touching a contaminated surface and then your eyes, nose or mouth so Hand Sanitizers were distributed to all Villagers with organised some Corona virus protection activities and these activities were done in 8(Eight) surrounding villages like - Sahrawad Village, Askali Gram Panchayat, Morak Station Gram, Morak Goan, Barodiya Village, Chechat Village, Budhkhan Gram Panchayat, Hiriyakhedi Village.
3	COVID -19 Awareness Training	Mangalam Cement Limited conducted Covid-19 Corona Virus Awareness Trainings to all villagers to make them aware and protect them from Corona Virus. We gave them training on the following topics like - Mask wearing, Use of Hand Sanitizer, Social Distancing, Most common symptoms of Corona Virus etc.
4	Mask Preparation Training to Women's	Considering the Covid-19 Pandemic we gave cotton mask making training to village women along with raw material, stitching machine, work space and gave them training on selling skills and market analysis skills to develop them as entrepreneur so that they can become an independent earning women.
5	Food Distribution	In Covid-19 pandemic when everyone was isolated in their homes and industries were shut down, people were not getting proper food supply , their earning and income sources were stopped and they were dying hungry, in that pandemic situation we initiated to provide food and ration packet to all needy poor villagers and labours in their home. This activity was done in 8(Eight) surrounding villages like - Sahrawad Village, Askali Gram Panchayat, Morak Station Gram, Morak Goan, Barodiya Village, Chechat Village, Budhkhan Gram Panchayat, Hiriyakhedi Village.
6	Contribution in Swachh Bharat Abhiyan	To contribution in Indian Government Mission " Swachh Bharat Abhiyan ", we contributed to development of Local Gram Panchayats for Road Cleanings, Plantation, Drainage improvement system, Public Sochalay etc.

Annexure-VII

Health Surveillance Report

Date:- 23/10/2020

Health activities conducted by OHC from April 2020 to Sept. 2020 are as following….

1. Periodical health examination of 861 nos. Staff & workers was done during this period Some Staff/workers were suffering from hypertension, Cardiac disease & refractive errors.

Hypertensive patients were investigated and treated, refractive errors were referred to ophthalmologist, cardiac patient were referred to cardiologist and those suffering from skin disorder were treated and instructed to use PPE regularly.

2. Health knowledge of workers was improved through health talks on various topics like health and hygiene, Diarrhoea & vomiting, hypertension, diabetes, heart disease, obesity, nutrition, dog bite, snake bite, heat stroke etc.

3. Follow up action of diseased/affected workers was done & remedial measure taken.

Medical officer

AVP-HR (P&A)

Annexure- VIII

Mangalam Cement Ltd.

Details of Water Harvesting

Sr. No.	Location	Roof Area (m^2)
1.	Engineering Building	725
2.	Load Center Building	1458
3.	Store Building	1620
4.	Captive Power Plant – I	1200

Annexure-IX

Mangalam Cement Ltd (Unit-I, II, III & CPP- I & II)

Environmental expenditure incurred during the period from April 2020 to Sept. 2020 for environment protection measures.

S. No.	Department	Total Cost (In Rs.)
1.	Total Expenditures	**59625937.74**