MANGALAM CEMENT LTD.

MANGALAM CEMENT LTD.

Regd. A/D

MCL/AGU-104/2022-2023 Dt. 26.05.2022

Deputy Director General of Forest (C)
Ministry of Environment & Forest and Climate Change
Integrated Regional Office (C Z)
Kendriya Bhawan, 5th Floor
Sector "H" Aliganj
LUCKNOW -226024 (U.P.)
E-mail: rocz.lko-mef@nic.in

Sub. Six Monthly Compliance Report for the period **October-2021 to March-2022** for Environmental Clearance to Cement Grinding Unit Capacity 1.25, MTPA OPC and 1.99 MTPA PPC and DG based Power Plant (5.4 MW X 2) of Mangalam Cement Limited, at Plot No : K-1,CDF Complex, Anoop Shahar Road, Chherat Goan, Aligarh (Uttar Pradesh).

Ref. :- 997/Parya/SEAC/1134/2013/OSD(T) dt. 07.08.2014.

Dear Sir,

We would like to submit here with the six monthly compliance report of Environmental Clearance issued by SEIAA, Uttar Pradesh vide letter no.997/Parya/SEAC/1134/2013/OSD (T) dt. 07.08.2014 for Cement Grinding Unit Capacity 1.25, MTPA OPC and 1.99 MTPA PPC and DG based Power Plant (5.4 MW X 2) to M/s Mangalam Cement Limited, situated at Plot No: K-1,CDF Complex, Anoop Shahar Road, Chherat Gaon, Aligarh (U.P.) along with monitoring data. Submitted for your kind information & records please.

Thanking you.

Yours faithfully
For Aligarh Grinding Unit
M/s Mangalam Cement Limited

S.K.Pokharna
Jt.President (Tech.)

CC to:

: **Member Secretary,** Uttar Pradesh Pollution Control Board , Building. No. TC-12V, Vibhuti Khand, Gomti Nagar, Lucknow, Uttar Pradesh 226010,

: **Regional Directorate, Lucknow;** CPCB, Zonal Office (North) PICUP Bhawan Vibhuti Khand, Gomti Nagar Lucknow -226010,

: **Regional officer,** UP State Pollution Control Board , Regional Office J-1, Gyan Sarovar Colony, Ramghat Road, Aligarh (UP)

M/s Mangalam Cement Limited
Clinker Grinding Unit
Aligarh

ENVIRONMENT CLEARANCE COMPLIANCE REPORT

Name of the Project :- Cement Grinding Unit Capacity 1.25 MTPA OPC and 1.99 MTPA PPC and DG based Power Plant (5.4 MW X 2)		**Project Code :-**
Clearance Letter No. : - 997/Parya/SEAC/1134/2013/OSD (T) dt. 07.08.2014		
Month of Compliance Report :- October 2021 To March 2022		
S.No.	**EC Conditions**	**Compliance Report**
General Conditions		
1.	The project authorities must strictly adhere to the stipulation made by the Uttar Pradesh State Pollution Control Board and the State Government.	We are strictly following guidelines of UPPCB and the State Government.
2.	No further expansion or modifications in the plant shall be carried out without prior approval of the SEIAA. UP.	In case of any addition / modification / alteration or change in existing plant, the separate permission will be taken by Ministry of Environment and Forest.
3.	The gaseous emission from various process units shall conform to the load/ mass based standards notified by this Ministry on 19th May, 1993 and standards prescribed from time to time. The State Pollution Control Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location.	We are following prescribed Standards.
4.	At least four ambient air quality monitoring stations should be established in the relevant directions as well as where maximum ground level concentration of PM2.5, SO2 and NOX are anticipated in consultation with the SPCB, Data on ambient air quality and stack emission shall be regularly submitted to UPPCB/ CPCB and Regional Office, of MoEF at Lucknow once in six months.	Monitoring stations has been installed at the periphery of our factory premises for the monitoring of ambient air quality. The locations of these stations decided after consultation with RO Aligarh. Ambient air quality monitoring report and Stack emission monitoring report are enclosed as **Annexure – I & II** and the same has been submitted to Regional office, MoEF&CC at Lucknow and UPPCB, CPCB once in six months regularly.

5.	Industrial waste water shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended form time to time. The treated waste water shall be utilized for plantation purpose.	It is a zero liquid discharge based plant.
6.	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 shall conform to the standards prescribed under EPA Rules, 1989 viz 75 dBA (daytime) and 70 dBA (night times).	Ambient noise level in and around the plant area is being checked and reports are attached as **Annexure-III.**
7.	Occupational health surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.	Occupational health checkup of the workers is being done on regular basis as per the factories act & record to kept. Personal Air quality monitoring reports are attached as **Annexure-VII.**
8.	The company shall develop surface water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	Rain water harvesting structure has been developed for roof top only. Surface rain water harvesting is not feasible in cement grinding unit. Details are enclosed herewith in **Annexure-VIII**
9.	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 socioeconomic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.	Earmarked capital for environmental management will be used exclusively for its implementations as mentioned in EIA / EMP reports. We shall be implemented this condition as per Enterprise Social Commitment scheme. Details are enclosed herewith in **Annexure-VI**
10.	As proposed, budget 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 MoEF at Lucknow. The funds so provided shall not be diverted for any other purpose.	We agree the condition and complying. Environmental expenditure incurred during the period from October -21 to March 2022 for environment protection measures is given below. Details are enclosed herewith in **Annexure-IX**

		Mangalam Cement Ltd Environmental expenditure incurred during the period from October – 2021 to March - 2022 for environment protection measures. S. No. / Department / Total Cost (In Rs.) 1. Total Expenditures **39,69,205.00**
11.	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.	We have put the clearance letter on the website of the company.
12.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MoEF at Lucknow, CPCB and UPPCB. The criteria pollutant levels namely: PM10, PM2.5, SO2, NOX (ambient level as well as stack emissions) for the projects shall be monitored and displayed at convenient locations near the main gate of the company in the public domain.	We are uploading six monthly EC compliance report including monitoring results on our website time to time and same data is being send to the RO, MOEF&CC, UPPCB Lucknow and CPCB. Measured data is being displayed near company gate in public domain.
13.	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, CPCB and UPPCB. The Regional office of MoEF at Lucknow/CPCB/SPCB shall monitor the stipulated conditions.	We are submitting six monthly compliance report of Environmental Conditions including results of monitored data on or before 1st June and 1st Dec every year in hard as well as soft copy to Regional office, MOEF&CC at Lucknow, UPPCB and CPCB.
14.	The environmental statement for each financial year ending 31st March in form-V as is mandated to be	Environmental Statement is being submitted every year before 30th September and same is being uploaded on company's website. Latest report

	submitted by the project proponent to be concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986 as amended subsequently, shall also be put on the websites of the company along with the status of compliance of environmental conditions and shall also be sent to the Regional office of the MoEF at Lucknow.	submitted vide our letter no. MCL/Env. Audit/2021-2022/90 on dt. 15.09.2021.
15.	The project proponent shall inform the public that the project has been accorded Environmental Clearance by the SEIAAUP and copies of the clearance letter are available with the SPCB and may also be seen at website of the SEIAAUP at seiaaup.com. 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 UPPCB and the Regional office of MOEF&CC at Lucknow vide our letter no. MCL/AGU-37/2013-14/10553 dated 20.08.2014.
16.	Project authorities shall inform the Regional Office of MoEF, Lucknow as well as the SEIAA the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	We agree the condition & the data of financial closure and final approval of the project shall be informed to Regional Office as well as to the Ministry.
	Specific Conditions	
1.	Continuous Ambient Air Quality Monitoring Station to monitor the concerned parameters shall be installed in the predominant wind direction immediately after the plant is in operation.	We shall be installed continuous Ambient Air Quality Monitoring Station to monitor the concerned parameters.
2.	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 be submitted to the MoEF Regional Office at Lucknow, SPCB and CPCB regularly.	We have installed adequate air pollution control system like Bag filters and stack of adequate height. Data on ambient air, fugitive and stack emission is being regularly submitted to the Regional Office, MoEF&CC, Lucknow, UPPCB & CPCB. Copy attached as **Annexure-I, II, & IV.**
3.	The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826 (E) dated 16th	We are strictly following National Ambient Air Quality Standard issued by Ministry of Environmental Forest & Climate Change.

	November, 2009 should be followed.	
4.	Gaseous emission levels including secondary fugitive emission 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.	We are following guidelines / code of practice issued by the CPCB. Fugitive emission report is attached as **Annexure-IV.**
5.	The company shall install adequate dust collection and extraction system to control fugitive dust emissions at various transfer points, raw meal handling (unloading, conveying, transporting, stacking), vehicular movement, bagging and packing areas etc. All the raw material stock piles should be covered. A closed clinker stockpiles system shall be provided. Conveyers 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 cement, fly ash and clinker shall be stored in silos. Pneumatic system shall be used for fly ash handling.	We have installed 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 have been covered by GI sheets. Cement is stored in silos. Fly ash has been stored in silos and pneumatic system is available for fly ash handling.
6.	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 after sprinkling shall be carried out in critical areas prone to air pollutions and having high levels of PM 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.	Asphalting/ concreting roads and floors have been provided in the plant to improve the ambient air quality. We are strictly complied with the ambient air quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.
7.	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.	All raw materials have been stored in covered yard and Silo. Fly ash is being transported from other places in the closed containers. Water spray system is being available to control vehicular emissions.
8.	Total ground water requirement for the cement plant shall not exceed	We are not exceeding water consumption with consented quantity. Permission for ground water

	170/day and necessary permission for the drawl of water shall be obtained from the Competent Authority. 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.	withdrawal from CGWA has been taken. It is a zero liquid discharge based plant.
9.	Rain water harvesting measures shall be adopted. The company must also harvest the rain water from the roof tops and storm water drains to recharge the ground water and use the same water for the various activities of the project to conserve fresh water.	We are using rain water harvesting system in artificial ground water recharge.
10.	All the bag filter dust, raw meal dust, clinker dust and cement dust from pollution devices should be recycled and reused in the process used for cement manufacturing. Spent oil and batteries should be sold to authorized recyclers/ re-processors only.	We are following guideline given by Pollution Control Board. All bag filters dust have been totally recycled and reused in the plant process.
11.	Green belt shall be developed in at least 33% of project area in and around the cement plant as per the CPCB guidelines to mitigate the effects of air emissions in consultation with local DFO. Layout plan showing greenbelt should be submitted within three month. Green belt shall be distributed uniformly all around the main plant particularly in the predominant wind direction.	We are developing 33 % green belt area in & around of our cement plant, as per the CPCB guidelines. List of trees planted within premises are attached as **Annexure-V.**
12.	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 and to be removed after the completion of the project.	We agreed the condition. Now the plant is in operation phase. All the construction work has been completed.
13.	All the recommendations made in the Chapter on Corporate Responsibility for Environment Protection (CREP) for the cement plants shall be implemented.	We are following all the recommendations made in the Chapter on Corporate Responsibility for Environment Protection (CREP) for the cement plants.
14.	Environmental Corporate	We agree the condition; we shall be following ECR

	Responsibility (ECR) plan along with budgetary provision amounting to 2% of total profit shall be submitted (with in the month) on need base assessment study in the study area. Income generating measures which can help in upliftment of weaker section of society consistent with the traditional skills of the people identified. The programme can include activities such as old age homes, rain water harvesting provisions in nearby areas, development of fodder farm, fruit bearing orchards, vocational training etc. In addition, vocational training for individuals shall be imparted so that poor section of society can take up self-employment and jobs. Separate budget for community development activities and income generating programmers shall be specified.	plan. CSR expenditure is attached as **Annexure-VI**
15.	Post project monitoring for air, water (surface+ ground), stack noise of D.G. sets, STP to be carried out as CPCB Guidelines. Walls of appropriate heights shall be provided in the raw material and the product handling sections.	We are following CPCB guidelines.
16.	Corporate Responsibility for Environmental Protection (CREP) guidelines for cement industries should be followed.	We shall be following all the recommendations made in the Chapter on Corporate Responsibility for Environment Protection (CREP) for the cement plants.
17.	All storm water drain and conveyor belts should be covered. Walls of appropriate heights shall be provided in the raw material and the product handling sections.	We agree the condition, we shall be covered all storm water drain and conveyor belts. We have provided appropriate heights of walls in the raw material and the product handling sections.
18.	Any litigation pending in the Courts of Law it shall be blinding on project proponent.	We agree the condition.
19.	Parking facility should be provided with in the project premises.	We have provided parking facility in the project premises.
20.	Green belt should be developed as per CPCB norms. 50% Evergreen Tree (that remains green for most part of the year and sheds leave slowly throughout the year having height more than 2.0 m, with a well distinguished trunk) should be part of the green belt. Green belt should be developed in a strip of 10 meters with in the boundary of its premises and	We shall follow guideline of CPCB. Plantation in the premises is being done as per guidelines.

	along both sides of the internal roads.	
21.	The minimum height of plantation of sampling should be 3.6 m at the time of occupancy.	We shall follow guideline of CPCB.
22.	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under section 11 of the National Environment Appellate Authority Act, 1997.	We agree the condition.
23.	A comprehensive EIA report shall be prepared and submitted based on six month data immediately after the plant is in operation.	We agree the condition.
24.	Walls of appropriate heights shall be provided in the raw material and the product handling sections.	We have provided appropriate heights of walls in the raw material and the product handling sections.

Annexure-I

Mangalam Cement Ltd. Aligarh

Stack No.	Details of Stack	Stack Attached with	Height (Mtrs.)	Dia (Mtrs.)	Particulates Matter Concentration (mg/nm^3)		
					Oct -21 to Dec -21	Jan-22 to Mar -22	Avg.
1	Cement Mill Stack	Bag house	30.00	0.95	23	21	22

Annexure-II

Mangalam Cement Ltd. Aligarh

Ambient Air Quality Monitoring Results

Sr. No	Location Parameters ↓	Near Canteen			Near Packing Plant			Near CDF Building -I			Near CDF Building -II		
		Oct -21 to Dec -21	Jan -22 to Mar -22	Avg.	Oct -21 to Dec -21	Jan -22 to Mar -22	Avg.	Oct-21 to Dec-21	Jan -22 to Mar -22	Avg.	Oct -21 to Dec-21	Jan -22 to Mar-22	Avg.
1	PM10 (µg/m3)	86	88	87	88	90	89	76	79	77.5	80	84	82
2	PM2.5 (µg/m3)	38	39	38.5	39	40	39.5	33	35	34	36	34	35
3	So_2 (µg/m3)	20	17	18.5	19	17	18	17	15	16	17	16	16.5
4	NOx (µg/m3)	38	33	35.5	41	44	42.5	32	33	32.5	35	37	36
5	CO (Mg/m3)	1.14	1.10	1.12	1.14	1.18	1.16	1.09	1.10	1.095	1.04	1.07	1.055

Annexure-III

Mangalam Cement Ltd. Aligarh

Results of Noise

Sr. No.	Location	Ambient Air Noise Results (dB)A					
		Oct-21 to Dec-21		Jan -22 to Mar-22		Day Avg.	Night Avg.
		Day	Night	Day	Night		
1	Near Canteen	63.8	53.0	63.0	52.3	63.4	52.6
2	Near Packing Plant	65.1	59.4	65.9	59.0	65.5	59.2
3	Near CDF Building-I	67.1	53.4	66.7	52.0	66.9	52.7
4	Near CDF Building-II	69	58	67.5	56.4	68.2	57.2

Annexure-IV

Mangalam Cement Ltd. Aligarh				
Results of Fugitive Emission				
S.No.	Location	SPM (µg/m³)		
		Oct-21 to Dec-21	Jan -22 to Mar-22	Avg.
1	Cement Mill Area	260	255	257.5
2	Packing Plant	292	296	294
3	Main Gate	238	230	234
4	Gypsum Shed	234	242	238
5	Fly Ash Silo	258	264	261
6	Clinker Silo	250	244	247

Annexure-V

Mangalam Cement Ltd. Aligarh

Month Wise Tree Plantation

Sr. No.	Month	Plant Names	Numbers	Survival Rate	Location	Area (hector)
						Plantation Area
1	Oct-21 to Mar- 22	Papadi	65	90 %	Plant	5.0

Annexure-VI

MANGALAM CEMENT LIMITED

CSR Expenditure for the period from Oct-21 to March -22		
S.No.	Particulars of CSR Activities	AMOUNT (in Rs.)
1.	Total CSR Expenditure	1,64,59,539.00

Annexure-VII

Dt

Health surveillance report (01.10.2021-31.03.2022)

Health activities conducted by O.H.C.during this period are as follows.

Periodical health examination & general medical & heath examination of workers & staff was done to detect occupational & age related health problems, which are as follows.....

1. Periodical health examination of 49 staff & 133 workers was done.
2. 2 (two) staff & 4 (four) workers were to be suffering from hypertension.
   They were refer to physician for treatment of hypertension.
3. 5 (five) staff & 2(two) workers were found to be suffering from Diabetes.
   They were referred to physician for treatment of Diabetes.
4. 7 (seven) staff & 6(six) workers were obese.
   They were advised to change his food habits and do regular exercise to reduce Weight. They were counselled regarding obesity related disease.
5. Total O.P.D. patient 521.
   Follow up action of disease/affected worker was done & remedial measure Taken.

O.H.C.

Annexure- VIII

Mangalam Cement Ltd. Aligarh

Details of Water Harvesting

Sr. No.	Location	Roof Area (m^2)
1.	CCR Building -1	1125
2.	CCR Building -2	
3.	Administration Building	138
4.	Canteen Building -1	180
5.	Canteen Building -2	

Annexure-IX

Mangalam Cement Ltd .Aligarh

Environmental expenditure incurred during the period from Oct-21 to March-22 for environment protection measures.

S. No.	Department	Total Cost (In Rs.)
1.	Total Expenditures	39,69,205.00