

ACL/DCW/PPP/MOEF/2019-20/

SPEED-POST

Date: 15/05/2020

The Additional Principal Chief Conservator of Forest
Ministry of Environment, Forest and Climate Change
Regional Office-South Eastern Zone
1st and 2nd Floor, HEPC Building
NO.34, Cathedral Garden Road
Nungambakkam, Chennai-600034(Tamil Nadu State)

**Sub: Half yearly Environment Clearance Compliance report, (October 2019 to March 2020)
EC granted by SEIAA, AP, MoEF Vide letter no.SEIAA//AP/GTR-54/2012,Dated 10th July 2013.**

Dear Sir,

With reference to above, we are enclosing herewith Half Yearly Environment Clearance Compliance report of CPP (30MW) of Durga Cement Works, a unit of Andhra Cement Limited for the period from October 2019 to March 2020 for your kind information and reference please.

We would request you to arrange for sending acknowledgement for this letter for our reference.

Kindly arrange to acknowledge receipt of this letter.
Thanking You,

Yours faithfully
For **DURGA CEMENT WORKS**
(A Unit of Andhra Cements Limited)



(N.B.Singh)
Advisor-Technical

Encl: As above
Copy to:

The Member Secretary
AP Pollution Control Board
Head office,D.No.33-26-14D/2 Near Sunrise Hospital,
Pushpa Hotel Centre, Chalamavari Street,
Kasturibaipet, Vijayawada-520010 (AP State)

The Director,
Ministry of Environment, Forest and Climate Change
Regional Office-South Eastern Zone 1st and 2nd Floor,
HEPC Building NO.34, Cathedral Garden Road
Nungambakkam, Chennai-600034(Tamil Nadu State)

The Scientist & In charge
Central Pollution Control Board, 1th & 2th Floor, Nisarga Bhavan
A-Block, Thimmaiah Main Road,7thD Cross, Shivanagar opp.
Pushpanjali Therature, Bengaluru, (Karnataka State)

The Environment Engineer
Regional Office, AP Pollution Control Board,Door No.4-5-4/5C
(East), Navbharat Nagar, Ring Road, Guntur-522007, (AP State)

Name of the Project : 30 MW Captive Power Plant
 Durga Cement Works
 (A Unit of Andhra Cements Limited)
 Durgapuram (V), Dachehalli (M)
 Guntur-District (AP)

Project code: 02TS282-CPP

Clearance Letter No. : SEIAA /AP/GTR-54/2012-Dated:10.07.2013
Period of Compliance Report : October 2019 to March 2020

A. Specific Conditions

Air Pollution

I	The Particulate emissions from the stack of height 77m, connected to the AFBC Boiler of capacity 132 TPH, shall not exceeded 50 mg/Nm ³ as committed in the presentation & EIA report. Limestone shall be used as the bed material in the boiler to absorb sulphur. ESP shall to provided to control particulate emission.	Electrostatic Precipitator (ESP) installed for the control of particulate emission and its stack height is 77 meters which is connected with AFBC Boiler. Stack emission not exceeding 50 mg/Nm ³ .
II	Provision shall be made to provide flue Gas Desulphurization (FGD) unit, if required in future	Provision for FGD Shall be made, if required in future.
III	On-line monitors shall be provided to measure Stack Emissions and Ambient Air Quality. Separate energy meters shall be provided for pollution control systems.	On-line continuous emission monitoring system in stack & separate energy meter installed. 3Nos. of On-line real time CAAQM stations & 4 Nos. AAQM Monitoring stations already installed around CPP in the existing cement plant area for checking of Ambient Air Quality. CAAQMS data is being transmitted online to APPCB & CPCB Server on regular basis.
IV	Raw materials shall be transported in covered trucks. Raw materials shall be stored under sheds. All the belt conveyors shall be covered with G.I. sheets. Appropriate dust suppression system shall be provided all around the stockpiles and conveyor system. All the roads in the plant area shall be asphalted /concreted and water shall be sprinkled to suppress the dust.	Raw materials are being transported in covered trucks, Raw materials are stored under sheds and all the belt conveyors are fully covered with G.I. sheets. All the roads being concreted in the plant area. Dust suppression system installed at dust generating point. Regular water spray is done through water tanker for the control of fugitive emission.
V	In plant control measures for checking fugitive emissions from all vulnerable sources like spillage /raw materials handling etc. shall be provided. Further adequate dust collection and extraction system such as bag filters shall be provided at all transfer points raw material screen houses, hoppers stock house, product house etc. Fugitive emissions shall be regularly monitored and records maintained.	Regular fugitive emission is monitored and controlled by adopting appropriate control measures and record being maintained.

VI Ambient air quality including ambient noise levels must not exceed the standards stipulated under Notification dt.16.11.2009 issued by MoEF, GOI. Monitoring of Ambient Air Quality and stack emissions shall be carried out regularly in consultation with APPCB and report submitted to the Board and to the Ministry's Regional office at Bengaluru half yearly.

Ambient Air Quality & Ambient Noise Level is being regularly monitored which is meeting the stipulated Standards. Monitoring data is given below :

Stack Emission Monitoring Report	
October 2019 to March 2020	
Stack Name	CPP ESP
Parameter	Particulate Matter (mg/Nm ³)
Maximum	
Minimum	*CPP Stopped
Average	

Ambient Air Quality Monitoring Report				
October 2019 to March 2020				
Location - (1)	Near Mine Pit (Cross wind)			
Parameter	PM _{2.5}	PM ₁₀	SO ₂	NO ₂
Concentration	µg/m ³			
Maximum	32.98	65.06	11.11	12.09
Minimum	24.32	49.96	5.06	5.66
Average	28.56	57.47	8.58	8.65
Location - (2)	Near Naguleru River Pump House (Cross Wind)			
Parameter	PM _{2.5}	PM ₁₀	SO ₂	NO ₂
Concentration	µg/m ³			
Maximum	30.46	65.50	8.77	11.90
Minimum	22.19	45.31	2.72	4.82
Average	26.27	55.41	5.65	8.32
Location - (3)	Near CPP (Towards Gamalapadu Village) (UP Wind)			
Parameter	PM _{2.5}	PM ₁₀	SO ₂	NO ₂
Concentration	µg/m ³			
Maximum	31.88	67.18	9.89	15.41
Minimum	23.88	56.45	3.26	6.27
Average	27.84	62.01	6.61	10.71
Location - (4)	Colony area (Towards Srinagar Village) (Down Wind)			
Parameter	PM _{2.5}	PM ₁₀	SO ₂	NO ₂
Concentration	µg/m ³			
Maximum	26.55	63.53	12.04	11.25
Minimum	21.17	46.82	1.29	4.47
Average	23.78	55.49	6.86	7.84

Ambient Noise Level Monitoring Report								
October 2019 to March 2020								
Location	Near ESP		Near D M Plant		Near Boiler		Near CPP Office	
Time	Day	Night	Day	Night	Day	Night	Day	Night
Concentration	dB(A)Leq							
Maximum	43.8	40.4	44.7	42.1	45.0	41.4	44.4	39.6
Minimum	40.7	37.2	42.4	39.5	41.1	38.6	41.7	36.7
Average	42.2	38.8	43.5	40.8	43.0	40.0	43.1	38.1

VII The proponent shall comply with the official Memorandum dt.05.02.2013 issued by the Ministry of Environment & forests, Govt.of India, W.r.t quality of imported coal, etc.

Shall be complied.

Water Pollution

I The source of water is rain water collected in mines. The total water requirement shall not

Rain water collected in mines pit is being used in CPP and water consumption in CPP hasnot exceeded550KLD.

	exceed 550 KLD. Out of that ,Quantity of water used for boiler feed water makeup considering DM plant is 449.4 KLD, Ventilation system 6.1 KLD is form potable water in plant 17.6 KLD, Washings & Sanitation is 38.8 KLD, Gardening & Landscaping is 14.3 KLD, Water treatment losses is 31.9 KLD.																																																							
II	The total waste water generated is 275.4 KLD. Out of that,233.4 KLD is from boiler blow down, 1.2 KLD is from ventilation system, 14.2 KLD is from potable water in plant, 26.6 KLD is from washing & Sanitation.	Agreed. The total waste water has not exceeded 275.4 KLD.																																																						
III	No effluent shall be discharged outside the factory premises and 'Zero' discharge shall be adopted. The DM plant generation water shall be subjected to neutralization .It shall be routed to Guard pond along with effluent generated from ventilation system. The treated waste water shall conform to on land for irrigation standards prescribed by the MoEF, GOI. The treated industrial waste water is to be used for dust suppression, bottom ash handling and development of green belt. The domestic waste water shall be treated in STP and send to Guard pond.	All the effluent ofCPPistreated in ETP. No effluent is discharged outside the factory premises and 'Zero' discharge is adopted. The treated waste water shall conform to on land for irrigation standards prescribed by the MoEF, GOI. The domestic waste water is being treated at 300 KLD STP.																																																						
		<p>STARTTECH LABS PVT. LTD. F-10, Sector-10, Gurgaon, Haryana Distt. Haryana, Gurgaon, Haryana Phone: 91-124-2333333, 91-124-2333334 E-mail: starttech@starttechlabs.com Website: www.starttechlabs.com</p> <p>STARTTECH LABS QUALITY SERVICES & OUR COMMITMENT</p> <p>TEST REPORT</p> <p>Name & Address of the Customer: M/S Energy Cement Works, A Unit of Fubina Greenbelt Ltd, Sriharipur, Gurugram, Haryana, Gurgaon Distt., H.P.</p> <p>Anal. Ref No: ST/2019/0379/100 Anal. Started on: 13/10/19 Anal. Comp. on: 15/10/19 Date of Report: 17/10/19</p> <p>SAMPLE DETAILS</p> <p>Name of Sample: STP Outlet Water Batch No.: Sample Qty: 5Ltr Date of Registration: 12/10/19</p> <p>RESULTS</p> <table border="1"> <thead> <tr> <th>S. No.</th> <th>Tests</th> <th>Units</th> <th>Methods</th> <th>Results</th> <th>Limit as per APPROX/ISIRI Standards</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>pH @ Temperature (°C)</td> <td>—</td> <td>IS 3025</td> <td>7.14 @ 26.7</td> <td>6.5 - 8.5</td> </tr> <tr> <td>2</td> <td>Color</td> <td>Hazen</td> <td>IS 3025</td> <td>1</td> <td>—</td> </tr> <tr> <td>3</td> <td>Total Solids</td> <td>mg/L</td> <td>IS 3025</td> <td>399</td> <td>—</td> </tr> <tr> <td>4</td> <td>Total Dissolved Solids</td> <td>mg/L</td> <td>IS 3025</td> <td>39.2</td> <td>500</td> </tr> <tr> <td>5</td> <td>Total Suspended Solids</td> <td>mg/L</td> <td>IS 3025</td> <td>11</td> <td>300</td> </tr> <tr> <td>6</td> <td>Oil & Grease</td> <td>mg/L</td> <td>IS 3025</td> <td>60</td> <td>10</td> </tr> <tr> <td>7</td> <td>Chemical Oxygen Demand</td> <td>mg/L</td> <td>IS 3025</td> <td>28</td> <td>200</td> </tr> <tr> <td>8</td> <td>Biological Oxygen Demand (5 days @ 20°C)</td> <td>mg/L</td> <td>IS 3025</td> <td>8.3</td> <td><10</td> </tr> </tbody> </table> <p>Form No: ST/2019/0379/100, Order date: 02/10/2019 Report: Obtained results reported</p> <p>Prepared by: [Signature] Checked by: [Signature] Authorized signatory (Owner & Designation): [Signature] Date: 17/10/19 Page: 1 of 1 BWS Manager</p>	S. No.	Tests	Units	Methods	Results	Limit as per APPROX/ISIRI Standards	1	pH @ Temperature (°C)	—	IS 3025	7.14 @ 26.7	6.5 - 8.5	2	Color	Hazen	IS 3025	1	—	3	Total Solids	mg/L	IS 3025	399	—	4	Total Dissolved Solids	mg/L	IS 3025	39.2	500	5	Total Suspended Solids	mg/L	IS 3025	11	300	6	Oil & Grease	mg/L	IS 3025	60	10	7	Chemical Oxygen Demand	mg/L	IS 3025	28	200	8	Biological Oxygen Demand (5 days @ 20°C)	mg/L	IS 3025	8.3	<10
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IV	The company must harvest the rainwater from the rooftops and storm water drains to recharge the ground water.	All the drainage of plant and colony connected to mines pits to conserve the rain water and recharge the ground water of surrounding area.																																																						
V	The area of the greenbelt shall not be less than 33% of the total area of the site of the proposed power plant. Green belt with tall growing trees shall be developed along the boundary of the site.	Total CPP area: 3 ha. Green belt development area – 1.9 ha. Name of tree planted –Neem, Dubaiand kanuga. Total No. of Tree planted:1400 Nos.																																																						
Solid Waste																																																								
I	The Ash generated (0.0175 MTPA) from the plant i.e. Fly ash (0.0140MTPA) and Bottom ash (0.0035MTPA) shall be utilized in the Cement plant. The Proponent shall comply with the provisions laid under notification S.O.2804 (E), dt.03.11.2009 with respect to utilized of Ash generated from the power plant. The Proponent shall utilized 100% of fly ash	100% of Fly Ash generated from CPP is being used in our existing cement manufacturing unit for production of PPC. The Cement plant has 5000 MT fly ash silo where all the fly ash generated is stored for manufacturing PPC.																																																						

	generated in the plant, with in four year from the date of commissioning. An action plan to that effect shall be submitted to the CPCB,APPCB, Regional office of MoEF,GOI,Bangalore with in a period of four month.	
II	Annual implementation report (for the period from 1 st April to 31 st March)Providing information about the compliance of provisions in the above mentioned notification shall be submitted by the 30 th day of April, every year to the CPCB, APPCB, Regional office of MoEF, GOI, Bangalore and also be made part of the annual report of the thermal power plant.	Environmental Statement (Form-V) for the period from April, 2018 to March, 2019 has been submitted our ref. Letter. No.: ACL/DCW/ENV/2018-19/397,Dated :12.09.2019
III	Waste oils, used oils, hazardous waste generated from the industry shall be disposed as per the Hazardous wastes (Management, Handling and transboundary movement) Rules, 2008 and its amendments thereof to the recyclers authorized by APPCB.	Waste oil& used oil being disposed through recycler authorized by APPCB. Annual return in Form -4 along with manifest submitted our ref. Letter No.:ACL/DCW/ENV/HW/2018-19/25 dt.17.04.2019
B	General Conditions	
I	This order is valid for a period of five year	Noted.
II	"Consent for Establishment" shall be obtained from Andhra Pradesh Pollution Control Board Under Air and Water Act before the start of any activity /construction work at site.	Consent for Establishment had been obtained fromAPPCB before the start ofactivity under Air&Water Act vide consent Orderno.335/PCB/CFE/RO-GNT/HO/2013-3133 Dt.08.08.2013.
III	Provision shall be made for the housing of the construction labour within the site with all necessary infrastructure and facilities such as safe drinking water, fuel for cooking, mobile toilets ,mobile STP, medical health care, crèche etc.The housing may be in the form of temporary structure to be removed after the completion of the project. The safe disposal of wastewater and solid waste generated during the construction phase should be ensured.	Complied. All the infrastructures had been developed for the construction labours: 1. Shared and partially furnished accommodation provided. 2.Community kitchen with Kerosene /Gas burners Provided 3. RO water Supply 4. Garbage collection& disposal system 5. Common toilet &bath facilities provided 6. Free Medical facilities through camp hospital and tie up with Govt. / Private Hospital.
IV	No change in the process technology and scope of working should be made without prior approval of the SEIAA,AP .No further expansion or modifications in the plant shall be carried out without prior approval of the SEIAA, AP/MoEF,GOI,NewDelhias applicable.	Noted and Agreed.
V	The proponent shall submit half-yearly compliance report in respect of the terms and conditions stipulated in this order in hard and soft copies to the SEIAA, and CCF Regional of MoEF&GOI, Bangalore on 1 st June and 1 st December of each calendar year.	Being complied Half yearly Compliance report(April, 2019 to September, 2019)submitted. Ref.Letter No.: ACL/DCW/PPP/MoEF/2019-20/ Dated: 12.11.2019.
VI	Four Ambient Air Quality-Monitoring Stationsshould be established in the core zone as well as in the buffer zone for monitoring. Location of stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be under taken in consultation with the state Pollution Control Board.	Four (4) Nos.Ambient Air Quality Monitoring Stations already installed around CPP in the existing cement plant area for monitoring of AmbientAir Quality.
VII	Data on Ambient Air Quality should be regularly submitted to the Ministry including	Being regularlycomplied.

	its Regional office located at Bangalore and the State Pollution Control Board/Central Pollution Control Board once in six months.	
VIII	Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on Safety and health aspects.	Being complied.
IX	Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed	Regular health checkup is being done at factory dispensary by the Doctors and outsource agency.

Shree

X A separate Environment Management Cell with suitable qualified personnel should be setup under the control of a Senior Executive, who will report directly to the Head of the Organization.

Environment management cell to carry out various Environment related activities has been set up under the control of Advisor (Tech.).

MAIPRAKASH ASSOCIATES LIMITED
 Durga Cement Works; Andhra Cements Ltd.
 Office Order; Environment Management Cell

03/March/2019


DCW/00/Environ/2

1. With immediate effect revised Environment Management Cell is set up at Durga Cement Works, for implementation and monitoring adherence to statutory norms relating to environmental protection, in DCW, and promoting environmental awareness in and around the plant.
2. The Environment Management Cell(EMC) Will comprise of :-

a) EMC Leader (Shri)	- N. B. Singh	Advisor (Tech.)
b) EMC Members (Shri)	i. K. Veera Babu	V P (Mech.)
	ii. K. Kashinath	GM (Genl)
	iii. A. K. Nema	GM (Prod. & QC)
	iv. Y. Ravi	AGM (Elect.)
	v. P. Suresh	AGM (Inst.)
	vi. Amit Kumar Dutt	Officer (Env.)

The Environment Management Cell (EMC) Will be responsible for:-

- 1) Ensuring serviceability of all environmental monitoring equipment.
- 2) Initiating and implementing eco friendly procedures and plans.
- 3) Promoting Environmental awareness in the employees of DCW, by organizing quarterly environmental awareness lectures, presentations & competitions.
- 4) Promoting environmental awareness in the children and villagers around the plant by organizing environmental awareness lectures, presentations and competitions for them in nearby schools.
- 5) Proper Record of these events to be maintained by Environment officer.


 N. B. Singh
 Advisor (Tech.)

XI The funds earmarked for environmental protection measures (Capital cost of Rs.16.3 crores & recurring cost of Rs. 5.1 Crores /Annum) and Corporate Social responsibility (CSR) activities (Capital cost of 54.0lakhs&Recurring cost of Rs.10.8lakhs /annum) should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry and its Regional Office located at Bangalore.

Being complied.
 The capital cost for environment protection measures invested is Rs. 13.18 crores. Fund for maintenance shall not be diverted to any other purpose.

XII	The Regional office of MOE&F located at Bangalore monitor compliance of the stipulated conditions. The Project authorities should extend full cooperation to the officers(a) of the Regional office by furnishing the requisite data /information/monitoring reports.	Noted and Agreed.
XIII	The Project proponent shall submit the copies of the environmental clearance to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant officers of the Government who in turn has to display the same for 30 days from the date of receipt.	Complied. Copies of Environment Clearance of CPP provided to the Heads of local bodies as well as relevant Government Offices Vide our letter dated: 21.07.2013 & 23.07.2013
XIV	The project authorities should advertise at least in two local newspaper widely circulated one of which shall be in the vernacular language of the locality concerned, with in 7 days of the issue of the clearance letter information that the project has been accorded environmental clearance and a copy of the clearance letter is available with the state Pollution Control Board and SEIAA, AP. This order shall be displayed in the web site of the project proponent	Complied. Intimation of getting Environment Clearance of CPP advertised in two local newspapers, widely circulated in this region for information of public. Newspaper clipping available in company website.
XV	The Proponent shall explicitly follow the suggestions and commitment made in the public hearing in protection of the environment	Noted and Agreed
XVI	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 18 of the National Green Tribunal Act, 2010.	Noted and Agreed
XVII	The company shall undertake eco-development measures including community welfare measures in the project area.	Eco-development measures and community welfare measures are being taken.
XVIII	The proponent shall obtain all other mandatory clearance from respective departments	Being complied.
XIX	Concealing the factual data or failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (protection) Act, 1986	Noted and Agreed.
XX	The SEIAA may revoke or suspended the order, if implementation of any of the above conditions is not satisfactory. The SEIAA reserves the right to alter /modify the above condition or stipulated any further condition in the interest of environment protection	Noted and Agreed
XXI	The above condition will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the public liability insurance Act 1991 along with their amendment and rules.	Noted and Agreed.