

ANDHRA CEMENTS LIMITED
DURGA CEMENT WORKS

REGISTERED POST

ACL/DCW/MOEF/2015-15/

Date: 01.12.2015

To
The Member Secretary,
State Level Environment Impact Assessment Authority (SEIAA), Andhra Pradesh
Ministry of Environment & Forest, Govt. of India
A-3, Industrial Estate, Saradhnagar
Hyderabad-500018

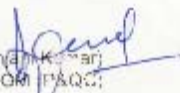
Sub: Half Yearly Environment Clearance Compliance report, (April 2015 to September 2015), EC granted by SEIAA, AP, MoEF vide letter no. SEIAA/AP/GTR-54/2012, dated 10th July 2013.

Dear Sir,

With reference to above, please find half yearly Environment Clearance compliance report of 35 MW of Captive Power Plant of Durga Cement Works, a unit of Andhra Cements Limited for the period of April 2015 to September 2015 for your kind information and record please.

Thanking You

Yours faithfully,
For DURGA CEMENT WORKS
A unit of Andhra Cements Limited


(Anand Kumar)
S-OM/PAQC

Enc: As above
Copy to

The Additional Principal Officer, Conservator of Forest
Ministry of Environment, Forest and Climate Change
Regional Office - South Eastern Zone
1st and 2nd Floor, HEPC Building
34 Cathedral Garden Road
Nungambakam, Chennai-600034

The Director,
Regional Office (South Zone)
Ministry of Environment, Forest and Climate Change
1st and 2nd Floor, I & II Wing
2nd Block, Kormangala
Bengaluru-560034, Karnataka

Scientist & Incharge
Central Pollution Control Board, 1st & 2nd Floor, Nisarga Bhavan
A-Block Thimmaiah Main Road 7th D Cross, Shivahagar
Opp. Pushpanjali Theatre, Bengaluru, Karnataka

The Environment Engineer
Regional office, Air Pollution Control Board
10th Parghava Apartment, Brundavan garden
S. J. J. R-522007, Andhra Pradesh

Regd. Office & :
Factory

ANDHRA CEMENTS LIMITED
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Dachepalli - 522 414, Guntur Dt, Andhra Pradesh
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JAYPEE
GROUP

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

Project code: 02TS282- CPP

Clearance Letter No.: SEIAA /AP/GTR-54/2012-Dated:10.07.2013

Period of Compliance Report: April 2015 to September 2015

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	Electro static Precipitator (ESP) installed for the control of particulate emission and its stack height is 77 meters which is connected with AFBC Boiler. Stack emission shall not exceed 50 mg/Nm3..
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 .Connectivity to APCS & CPCB server work is under process. 3 Nos 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. Separate raw material shed is being constructed and all the belt conveyors are fully covered with G.I.sheets. All the roads will be 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 shall be monitored and controlled by adopting appropriate control measures and record will be 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 Bangalore half yearly

Ambient air quality & Ambient noise level is being regularly monitored which is meeting the stipulated Standards, Monitoring data April 2015 to September 2015 is given below :

AMBIENT AIR QUALITY MONITORING REPORT DCW CPP				
LOCATION -1 NEAR MINE PIT-1, (CROSS WIND)				
	PM-2.5 µg/m ³	PM-10 µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³
MAX.	29.76	64.24	8.08	14.79
MIN.	16.37	45	4.04	8.56
AVG.	24.14	53.69	5.94	11.68
STD DEV.	2.99	4.75	1.03	1.43
COFF. OF VARIATION	0.12	0.09	0.17	0.12
98 PERCENTILE	29.06	62.88	7.85	14.04
LOCATION -2 NEAR NAGULERU RIVER PUMP HOUSE, (CROSS WIND)				
MAX.	26.21	61.35	8.73	15.16
MIN.	14.76	40.38	3.84	8.27
AVG.	21.87	50.08	5.91	11.13
STD DEV.	2.69	5.23	0.89	1.64
COFF. OF VARIATION	0.12	0.10	0.15	0.15
98 PERCENTILE	25.89	59.32	7.93	15.03
LOCATION -3 NEAR CPP (TOWARDS GAMALAPADU VILLAGE), (UP WIND)				
MAX.	32.8	66.6	8.08	16.63
MIN.	18.74	46.8	4.65	8.26
AVG.	26.81	56.75	6.20	12.20
STD DEV.	2.73	4.82	0.86	1.66
COFF. OF VARIATION	0.10	0.08	0.14	0.14
98 PERCENTILE	31.25	65.44	8.06	15.60
LOCATION -4 COLONY AREA (TOWARDS SRI NAGAR VILLAGE),(DOWN WIND)				
MAX.	24.45	60.23	7.41	15.54
MIN.	13.63	38.16	3.40	6.69
AVG.	19.57	46.54	5.45	10.62
STD DEV.	2.53	4.21	0.80	1.58
COFF. OF VARIATION	0.13	0.09	0.15	0.15
98 PERCENTILE	23.51	56.57	7.01	13.65

NOISE LEVEL REPORT OF CPP 30 MW OF DCW FROM APRIL 2015 TO SEPTEMBER 2015				
	1.Near ESP		2. Near DM Plant	
	Day Time dBA (6AM-10PM)	Night Time dBA (10PM-6AM)	Day Time dBA (6AM-10PM)	Night Time dBA (10PM-6AM)
Max.	56.30	44.60	57.30	52.40
Min.	43.50	41.70	43.60	42.30
Avg.	47.53	43.20	49.21	43.74
Std.Dev	3.41	0.84	3.89	1.77
Coff.of Variation	0.07	0.02	0.08	0.04
98 percentile	55.60	44.54	56.72	47.93
	3. Near Boiler		4.Near CPP Office	
Max.	53.60	44.60	49.70	44.80
Min.	43.60	41.40	42.60	40.20
Avg.	47.08	43.19	45.39	43.08
Std.Dev.	2.83	0.80	2.00	1.04
Coff.of Variation	0.06	0.02	0.04	0.02
98 percentile	53.60	44.54	49.58	44.68

vii The proponent shall comply with the official Memorandum dt.05.02.2013 issued by the Ministry of

Shall be complied

	Environment & forests, Govt.of India, W.r.t quality of imported coal, etc.	
Water Pollution		
i	The source of water is rain water collected in mines. The total water requirement shall not 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.	Rain water collected in mines pit is being used in CPP and water consumption in CPP will not exceeds 550KLD.
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 will not exceed 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 MoE&F, 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 of CPP will be treated in ETP. No effluent shall be discharged outside the factory premises and 'Zero' discharge shall be 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 already installed and working.
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.	Tree plantation already done on 1.0 Ha. Around the CPP. Tree plantation report given below : Total CPP area : 3 ha. Green belt development area : 1 ha. Name of tree planted : Neem Total No. of Tree planted : 1000 No.
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 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 MoE&F,GOI,Bangalore with in a period of four month	All the Ash generated from CPP will be used in our existing cement manufacturing unit. The provision of SO 2804(E) dtd 03.11.2009 w.r.t. utilization of fly ash shall be complied. The cement plant has 5000 MT fly ash silo where all the fly ash generated will be stored for manufacturing PPC.
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.	Half Yearly compliance report of Environment Clearance of CPP is being regularly submitted to CPCB APPCB, & Regional office of MoEF, GOI. Annual report shall also be submitted.
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 will be disposed through authorized recycler of APPCB.

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 has been obtained from APPCB before the start of activity under Air & Water Act vide consent Order no.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.	All the infrastructures have 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/MoE&F, GOI, New Delhi as 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 regularly complied. (Ref. Letter No.ACL/DCW/MoEF/2015-16/23, Dated01.06.2015)
vi	Four Ambient air quality-monitoring stations should 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.	.4 Nos AAQM stations already installed around CPP in the existing cement plant area for the checking of Ambient air quality.
vii	Data on ambient air quality should be regularly submitted to the Ministry including its Regional office located at Bangalore and the State Pollution Control Board/Central Pollution Control Board once in six months.	Being regularly complied.
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. OHS record is maintained properly.
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 plant head.

xi	The funds earmarked for environmental protection measures (Capital cost of Rs.16.3 crores & recurring cost of Rs. 5.1 Crores /Annam) and Corporate Social responsibility (CSR) activities (Capital cost of 54.0 lakhs &Recurring cost of Rs.10.8 lakhs /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.	As on date, about Rs. 12.98 crores already invested on the air pollution control equipments installed i.e.ESP, Bag filters and nuisance bag filters. Funds provided for the maintenance of the above equipment shall not be diverted for any other purpose. About 100.98 Lakhs invested in CSR activities in surrounding villages.
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(s) 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.	Already Complied. Copies of Environment Clearance of CPP provided to the Heads of local bodies as well as relevant Government Offices vide our letter No .Nil 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 sited of the project proponent	Already Complied .Intimation of getting Environment Clearance of CPP advertised in two local newspapers widely circulated in this region for information of public. Newspaper clipping already provided and also 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 16 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. Details are given below:

DCW CSR ACTIVITES

S.No.	Item	Amount
		(Rs.in)
1	Provided R.O.Plant at Srinagar village under NTR SUJALA PATHAKAM, inaugurated by Shri Yarapathineni Srinivasa Rao, MLA on 02-10-2014	2.7
2	Extension of water pipe line in one of wards in Srinagar Village	4
3	a)Drinking water supply scheme for Srinagar, Ramapuram, Durgapuram, Gamalapadu	2.4
	b) Pump house repairs are to be carried out as the pipeline system was introduced in 1995 and rusted	4
4	Dandivagu Lift Irrigation Scheme	1.6
5	Improving Health & Hygiene in surrounding villages	10
6	Aggregate chips for filling pit holes of the Road connecting Ramapuram village to State High way – 2.5 Kms	11
7	a) Repairs to the construction of School compound wall in Gamalapadu village – 350 Mtrs with main gate.	6
	b) Grampanchayat Office compound wall repairing (collapsed wall) and gate	2.5
8	Financial assistance for maintenance religious places in surrounding villages	1
9	Construction of Kalyana Mandapam in Ramapuram Village	10
10	a)Laboratory and Library renovation in Durga Public School	5
	b) R.O.Plant installed at Durga Public School	5
	c) Continuous power supply for Durga Public School	7
11	White-washing & colouring of Siva Temple in Ramapuram in connection with Mahasivaratri	0.1
12	Cutting & Cleaning bushes in Srinagar village	0.6
13	Road repair work / Cementing of road work in Ramapuram & Gamalapadu villages together = 500 Metres	15
14	Compassionate grounds subsidized / free education to poor / suffering / deserved people	3
15	Providing medical check ups to all students at DPS with free medical help and energy food to lower class (weekly twice)	1.5
16	Providing free R.O. water (including supply of regular water in times of power/water supply failure), emergency medical services and ambulance and fire services for Plant.	4
17	Providing Free Medical facilities, Ambulance and Fire services in Emergencies to the neighbouring villages.	2.5
18	Sri Sitaramula Swamy & Venugopala Swamy temple complex colouring on the occasion of Sriramanavami Festival (28-03-2015).	0.7
19	Flooring & colouring of Srinagar Gram panchayat Office.	1.29
	TOTAL EXPENDITURE	Rs.100.89 Lac

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.