

ANDHRA CEMENTS LIMITED
DURGA CEMENT WORKS

REGISTERED POST

ACL/DCW/MOEF/2013-14/

Date: 02.12.2013

To
The Additional Director
MoEF-GOI, Regional Office (South Zone)
Kendrya Sadan 4th floor, E&F Wings
IInd Block, Kormangla
Bengaluru-560034
Karnataka

Sub: Six monthly Environment Clearance Compliance report, granted by SEIAA, AP, MoEF vide letter no. SEIAA/API/GTR-54/2012, dated 10th July 2013.

Dear Sir,

With Reference to above, please find enclosed six monthly Environment Clearance compliance report of 30 MW of Captive Power Plant of Durga Cement Works, a unit of Andhra Cements Limited for the period of July 2013 to September 2013 for your kind information and record please.

Thanking You

Yours faithfully
For DURGA CEMENT WORKS
A unit of Andhra Cement Limited


(Anjan Kumar)
Sr. GM (P&QC)

Enc. As above
Copy to:

The Member secretary
AP Pollution Control Board
Paryavaran Bhavan A-III, IE, Sanath Nagar,
Hyderabad-500018

The Environment Engineer
Regional office, AP Pollution Control Board
102 Raghava Apartment, Brundavan garden
GUNTUR-522007 Andhra Pradesh

Shri A Monoharan
(Scientist D & Incharge)
Central Pollution Control Board, 1st & 2nd Floor, Nisarga Bhavan
A-Block, Thimmaiah Main Road, 7th D Cross, Shivanagar opp.
Pushpanjali Theatre, Bengaluru, Karnataka



Regd. Office &
Factory

ANDHRA CEMENTS LIMITED

Durga Cement Works, Durgapuram, Sirinagar (P.O.),
Dachepalli - 522 414, Guntur Dt. Andhra Pradesh
Ph. : +91-8649-257428-29, Fax : +91-8649-257449

DURGA CEMENT WORKS

(A UNIT OF ANDHRA CEMENTS LIMITED)
DURGAPURAM (V), DECHEPALLI (M)
GUNTUR-DISTRICT (AP)

ENVIRONMENT CLEARANCE COMPLIANCE REPORT OF CPP 30 MW OF DURGA CEMENT WORK (A UNIT OF ANDHRA CEMENT LIMITED) FOR THE PERIOD OF JULY 2013 to SEPTEMBER 2013

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

| A.SPECIFIC CONDITION | | |
|-----------------------------|---|--|
| 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 | Shall be complied. Civil work started for the construction of Captive Power Plant. Photographs attached Annexure A-1 . ESP will be installed and its stack height will be 77 meter for the control of air pollution. |
| ii | Provision shall be made to provide flue Gas Desulphurization (FGD) unit, if required in future | Provision Shall be made, if required. |
| 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 for APCS will be provided before the plant operation. 2 Nos CAAQMS stations & 4 No AAQM Monitoring stations already being installed in existing plant for the checking of ambient air quality in the factory premises. |
| 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. | Shall be complied. Separate raw material shed will be constructed during the construction phase and all the belt conveyors will be fully covered with G.I.sheets. All the roads will be concreted in the plant. Dust suppression system will be installed at dust generating area. Regular water spray will be 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. | Shall be complied. Regular fugitive emission shall be monitored and controlled by the 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, reports enclosed as per Annexure-A- 2 |
| 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 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. | Shall be complied. Rain water collected in mines pit will be used in CPP and water consumption in CPP not exceed 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 | Shall be complied. ETP & STP will be constructed for the treatment of effluent water. Treated water will be used in plant, Green belt development & Dust suppression. Zero discharge will be adopted. |
| 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. | Shall be complied. All the waste water of Plant & colony will be treated. ETP & STP treated water will be reused in Plant, Green belt development & Dust suppression. Zero' discharge shall be adopted. Treated water will conform to on land for irrigation standards prescribed by the MoEF,GOI |
| iv | The company must harvest the rainwater from the rooftops and storm water drains to recharge the ground water. | Shall be complied. |
| v | The area of the greenbelt shall not be lass 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. | Shall be complied. Action plan as per Annexure A-3 . |
| 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 | Shall be complied. All the Ash generated from CPP will be used in our cement manufacturing. |
| 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. | Shall be complied. Annual implementation & compliance report will be submitted to APPCB, CPCB & MoEF regularly. |
| 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. | We will follow the Hazardous waste Handling and transboundary movement) Rules, 2008 and its amendments thereof. Waste oil& used oil will be disposed through authorized recycler of APPCB |
| B GENERAL CONDITION | | |
| i | This order is valid for a period of five year | Agreed |
| ii | "Consent for Establishment" shall be obtained from Andhra Pradesh Pollution Control Board Unser Air and Water Act before the start of any activity /construction work at site. | Complied with. We have taken Consent for Establishment from APPCB before the start of activity under Air & Water Act. Consent for Establishment enclosed as per Annexure B-1 |
| 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 | Complied with. All the infrastructures have been developed for the construction labours as per Annexure-B-2 |

| | | |
|------|--|--|
| | toilets ,mobile STP, medical health care, crèche etc.The housing may be in the from 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. | |
| 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 . | 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. | Agreed. |
| 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. | Complied with. We have already established 2nos. CAAQMS and 4 nos. Ambient air quality monitoring stations in the excising factory premises. CAAQMS& AAQM Stations photographs enclosed as per Annexure B-3 |
| 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 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 surveillence 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. |
| 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 for the Environment Management of our Cement plant and Mines already exists. Competent CPP personnel will also be the part of the Cell. Organization chart enclosed as Annexure B-4 |
| 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. | The fund for environment protection measures earmarked shall not be diverted to any other purpose.CSR activities worth Rs.87.99 lakhs have already been under taken by Durga Cement works during the year 2013-14.Details as per Annexure-5 . |
| 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 | 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. Environment Clearance of CPP, copies provided to the Heads of local bodies as well as relevant Government Offices. Received copy attached as per AnnexureB-6 |
| 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 | Complied .Intimation of getting Environment Clearance of CPP advertised in two local newspapers widely circulated in this region for information of public. Cutting of Newspaper |

| | | |
|-------|---|--|
| | 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 | enclosed as per Annexure B-7 Environment clearance copy is 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 | 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. | 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 | Shall be 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 | 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 | 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. | Agreed. |
| | | |

Annexure A-1

CPP CONSTRUCTION WORK STARTED



Annexure-A- 2

AMBIENT AIR QUALITY MONITORING REPORT FROM JULY 2013 TO SEPTEMBER 2013

1.COLONY AREA

| | PM 2.5 ($\mu\text{g}/\text{m}^3$) | PM-10 ($\mu\text{g}/\text{m}^3$) | SOX ($\mu\text{g}/\text{m}^3$) | NOX ($\mu\text{g}/\text{m}^3$) |
|--------------------|---|--|--|--|
| Max. | 29.16 | 43.59 | 12.3 | 16.5 |
| Min. | 17.3 | 29.07 | 5.51 | 7.25 |
| Average | 22.15 | 35.34 | 8.29 | 12.52 |
| STD DEV. | 3.17 | 3.83 | 1.68 | 2.21 |
| COFF. OF VARIATION | 0.14 | 0.11 | 0.20 | 0.18 |
| 98 PERCENTILE | 28.82 | 42.51 | 11.89 | 15.90 |

2.NEAR CPP

| | PM 2.5 ($\mu\text{g}/\text{m}^3$) | PM-10 ($\mu\text{g}/\text{m}^3$) | SOX ($\mu\text{g}/\text{m}^3$) | NOX ($\mu\text{g}/\text{m}^3$) |
|--------------------|---|--|--|--|
| Max. | 33.98 | 53.47 | 8.80 | 13.82 |
| Min. | 21.64 | 39.16 | 3.60 | 5.18 |
| Average | 26.00 | 46.18 | 6.39 | 10.54 |
| STD DEV. | 3.20 | 3.92 | 1.54 | 2.76 |
| COFF. OF VARIATION | 0.12 | 0.08 | 0.24 | 0.26 |
| 98 PERCENTILE | 32.41 | 52.62 | 8.80 | 13.62 |

3. NEAR NAGULERU RIVER PUMP HOUSE (NEAR MINE PIT)

| | PM 2.5 ($\mu\text{g}/\text{m}^3$) | PM-10 ($\mu\text{g}/\text{m}^3$) | SOX ($\mu\text{g}/\text{m}^3$) | NOX ($\mu\text{g}/\text{m}^3$) |
|--------------------|---|--|--|--|
| Max. | 25.64 | 38.56 | 8.5 | 17.1 |
| Min. | 12.5 | 25.37 | 3.39 | 6.46 |
| Average | 18.39 | 31.91 | 6.71 | 11.60 |
| STD DEV. | 3.31 | 3.79 | 1.16 | 2.68 |
| COFF. OF VARIATION | 0.18 | 0.12 | 0.17 | 0.23 |
| 98 PERCENTILE | 24.70 | 38.24 | 8.32 | 16.96 |

4. NEAR MINES OFFICE

| | PM 2.5 ($\mu\text{g}/\text{m}^3$) | PM-10 ($\mu\text{g}/\text{m}^3$) | SOX ($\mu\text{g}/\text{m}^3$) | NOX ($\mu\text{g}/\text{m}^3$) |
|--------------------|---|--|--|--|
| Max. | 26.66 | 46.86 | 8.53 | 11.90 |
| Min. | 15.00 | 34.33 | 5.94 | 8.29 |
| Average | 22.05 | 41.27 | 7.15 | 10.33 |
| STD DEV. | 4.16 | 4.63 | 0.98 | 1.27 |
| COFF. OF VARIATION | 0.19 | 0.11 | 0.14 | 0.12 |
| 98 PERCENTILE | 26.49 | 46.63 | 8.49 | 11.83 |

NOISE LEVEL REPORT FROM JULY 2013 TO SEPTEMBER 2013

1. Colony area

| | Day Time dB(A) | Night Time dB(A) |
|--------------------------|----------------|------------------|
| Max | 45.6 | 44.5 |
| Min | 40.2 | 36.4 |
| Avg. | 43.27 | 41.48 |
| Std.Dev | 1.53 | 2.03 |
| Coff.of Variation | 0.035 | 0.049 |
| 98 percentile | 45.50 | 44.16 |

2. Near Time Office

| | Day Time dB(A) | Night Time dB(A) |
|--------------------------|----------------|------------------|
| Max | 52.4 | 50.2 |
| Min | 42.6 | 40.3 |
| Avg. | 47.825 | 45.91 |
| Std.Dev | 2.49 | 2.69 |
| Coff.of Variation | 0.052 | 0.059 |
| 98 percentile | 52.02 | 49.89 |

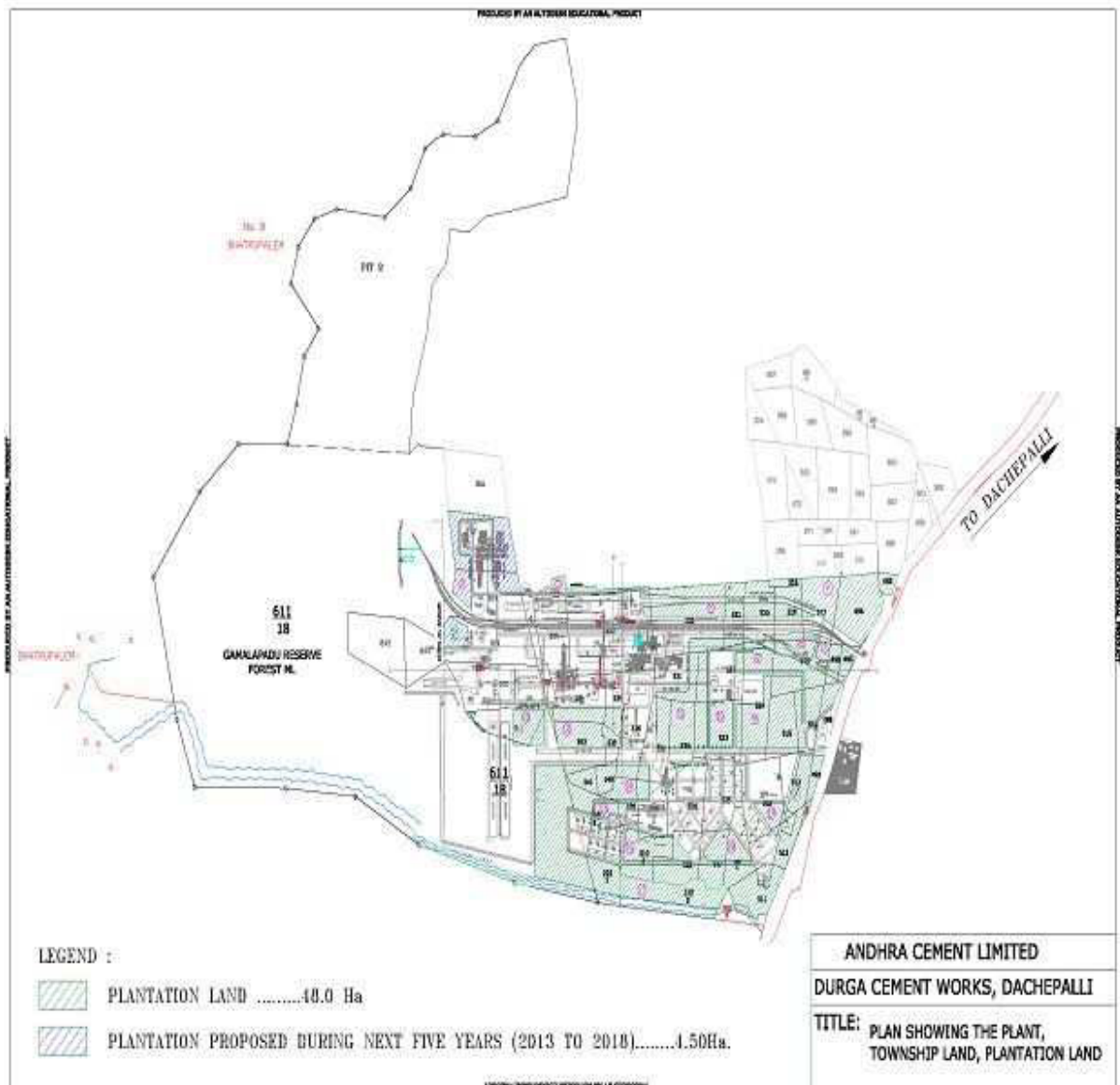
3. Near mines office

| | Day Time dB(A) | Night Time dB(A) |
|--------------------------|----------------|------------------|
| Max | 52.4 | 51.5 |
| Min | 47.6 | 44.6 |
| Avg. | 50.27 | 48.42 |
| Std.Dev | 1.57 | 1.73 |
| Coff.of Variation | 0.031 | 0.036 |
| 98 percentile | 52.37 | 51.19 |

Annexure A-3

Status of green Belt development (Plant & Colony)

Total Industrial Land area: - 141.574 Ha
Existing Green belt: - 48.00 Ha
Proposed Green belt development in coming 5 years – 4.50 Ha.





Tree Plantation in colony area




Tree Plantation in Boundary



Tree Plantation Plant area

Annexure-B 1

**ANDHRA PRADESH POLLUTION CONTROL BOARD**
PARYAVARAN BHAVAN, A - 3, INDUSTRIAL ESTATE,
SANATHNAGAR, HYDERABAD - 500 018

Phone: 23887500
Fax: 040 - 23815631
Grams : Kalushya Nivarama
Website :www.appcb.ap.nic.in

*① CFE Original Doc.
② File of Secretariat
Dok
26/8*

REGD.POST WITH ACK.DUE

CONSENT ORDER FOR ESTABLISHMENT

Order No. 335/PCB/CFE/RO-GNT/HO/2013 3/33 **Dt. 08.08.2013**

Sub: PCB – CFE - M/s. Durga Cement Works, (A unit of M/s. Andhra Cements Ltd), Sy. No. 814 & 815, Gamalapadu (P), Durgapuram (V), Dachepalli (M), Guntur District – Consent for Establishment of the Board under Sec.25 of Water (P & C of P) Act, 1974 and Under Sec.21 of Air (P&C of P) Act, 1981 - Issued - Reg.

Ref: 1) Environmental Clearance dt. 10.07.2013 issued by SEIAA, A.P
2) Industry's application received through SWCC on 01.06.2013 and Addl. Information received on 13.06.2013
3) R.O's inspection report dt. 13.06.2013
4) Industry's Ir dt. 19.07.2013.
5) CFE Committee meeting held on 29.07.2013
6) Industry's Ir dt. 30.07.2013.

1. In the reference 2nd cited, an application was submitted to the Board seeking Consent for Establishment (CFE) to establish captive power plant to produce the following with installed capacities as mentioned below, with an investment of Rs.141.02 Crores.

| Sl. No. | Products | Capacity |
|---------|--|----------|
| 1 | Electricity (Fuel – Imported Coal – 575.34 TPD) | 30 MW |

2. As per the application, the above activity is to be located within the existing plant premises located at Sy. No. 814 & 815, Gamalapadu (P), Durgapuram (V), Dachepalli (M), Guntur District in an area of 141.57 hectares.

3. The above site was inspected by the Environmental Engineer , Regional office, Guntur, A.P Pollution Control Board on 07.06.2013 and observed that the site is surrounded by

North : Mining pit
South : Dry Lands
East : Dry Lands
West : Existing Cement Plant

4. The Board, after careful scrutiny of the application and verification report of Regional Officer, hereby issues **CONSENT FOR ESTABLISHMENT** to your unit Under Section 25 of Water (Prevention & Control of Pollution) Act 1974 and Section 21 of Air (Prevention & Control of Pollution) Act, 1981 and the rules made there under. **This order is issued to manufacture the products as mentioned at para (1) only.**

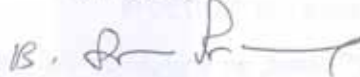
5. This Consent Order now issued is subject to the conditions mentioned in Schedule 'A' and Schedule 'B'.
6. This order is issued from pollution control point of view only. Zoning and other regulations are not considered.

Encl: Schedule 'A'
Schedule 'B'

Sd/-
MEMBER SECRETARY

To,
M/s. Durga Cement Works,
(A unit of M/s. Andhra Cements Ltd),
Sy. No. 814 & 815, Gamalapadu (P), Durgapuram (V),
Dachepalli (M), Guntur District

/// T.C.F.B.O///



JOINT CHIEF ENVIRONMENTAL ENGINEER(CFE)

B. R. R.
12/8

SCHEDULE - A

1. Progress on implementation of the project shall be reported to the concerned Regional Office, A.P. Pollution Control Board once in six months.
2. Separate energy meters shall be provided for Effluent Treatment Plant (ETP) and Air pollution Control equipments to record energy consumed.
3. The proponent shall obtain Consents for Operation (CFO) from APPCB, as required Under Sec.25/26 of the Water (P&C of P) Act, 1974 and under sec. 21/22 of the Air (P&C of P) Act, 1981, before commencement of the activity.
4. Notwithstanding anything contained in this conditional letter or consent, the Board hereby reserves its right and power Under Sec.27(2) of Water (Prevention and Control of Pollution) Act, 1974 and Under Sec.21(4) of Air (Prevention and Control of Pollution) Act, 1981 to review any or all the conditions imposed herein and to make such alternation as deemed fit and stipulate any additional conditions by the Board.
5. The consent of the Board shall be exhibited in the factory premises at a conspicuous place for the information of the inspecting officers of different departments.
6. Compensation is to be paid for any environmental damage caused by it, as fixed by the Collector and District Magistrate as civil liability.
7. Floor washing shall be admitted into the effluent collection system only and shall not be allowed to find their way in storm drains or open areas. The industry shall maintain a good housekeeping. All pipe valves, sewers, drains shall be leak proof. Dyke walls shall be constructed around storage of chemicals.
8. Rain Water Harvesting (RWH) structure (s) shall be established on the plant site. The proponent shall ensure that effluent shall not enter the Rain Water harvesting structure.
9. The rules and regulations notified by Ministry of Law and Justice, GOI, regarding the Public Liability Insurance Act, 1991 shall be followed.
10. This order is valid for period of 5 years from the date of issue.

SCHEDULE - B

Water:

1. The source of water is Rain Water from Mines Pit and the maximum permitted water consumption is 550 KLD.

| Sl. No. | Purpose | Quantity (KLD) |
|---------|-------------------------|----------------|
| 1. | Process / Boiler makeup | 449.4 KLD |
| 2. | Ventilation system | 6.1 KLD |
| 3. | Potable water in Plant | 17.6 KLD |
| 4. | Washings & Sanitation | 20.9 KLD |
| 5. | Gardening & Landscaping | 14.3 KLD |
| 6. | Water Treatment losses | 31.9 KLD |
| 7. | Clarifier Sludge | 0.0 KLD |

2. The maximum Waste Water Generation (KLD) shall not exceed the following:

| Sl. No. | Purpose | Quantity (KLD) |
|--------------|---|------------------|
| 1. | Process / Boiler Blowdown | 233.4 KLD |
| 2. | Ventilation system | 1.2 KLD |
| 3. | Potable water in Plant | 14.2 KLD |
| 4. | Washings & Sanitation | 16.8 KLD |
| 5. | Gardening & Landscaping | - |
| 6. | Water Treatment losses / Clarifier Sludge | 9.8 KLD |
| TOTAL | | 275.4 KLD |

Treatment & Disposal

| Source of Effluent | Treatment facility | Mode of final disposal |
|--------------------|--------------------|---|
| Process water | ETP | Proposed to be used in coal handling plant (CHP), Ash handling system, CPP makeup and dust suppression. |
| Domestic | STP | Proposed to be used for plantation, ash conditioning and gardening purpose within their premises. |

3. The Effluent Treatment Plant (ETP) shall be constructed and commissioned along with the commissioning of the activity. All the units of the ETP shall be impervious to prevent ground water pollution.
4. The effluents shall be treated to the on land for irrigation standards, as stipulated under Schedule VI of Environment (Protection) Rules, 1986, notified by Ministry of Environment and Forests, Government of India vide G.S.R.422 (E), dt.19.05.1993 and its amendments thereof.
5. Separate magnetic flow meters with totalisers to necessary pipe-line shall be provided for assessing the quantity of water used for each of the purposes mentioned below.
- Industrial cooling, boiler feed.
 - Domestic purposes.
 - Processing, whereby water gets polluted and pollutants are easily bio-degradable.
 - Processing, whereby water gets polluted and the pollutants are not easily bio-degradable.

Air:

6. The Air pollution Control equipment shall be installed along with the commissioning of the activity and shall comply with the following for controlling

| Sl. No | Details of Stack | Stack 1 |
|--------|-----------------------------|-----------------------------|
| a) | Attached to | Boiler |
| b) | Capacity | 132 TPH |
| c) | Fuel quantity | Coal – 575.34 TPD |
| d) | Stack height | 77 m |
| e) | Control equipment | Electro Static Precipitator |
| f) | Conc. of particulate matter | < 50 mg/Nm ³ |

7. The industry shall provide adequate space for installation of flue gas desulphurization (FGD), if required at later stage, as stipulated by MoE&F, Gol.
8. Regular monitoring of ground level concentration of SO₂, NO_x, Hg, PM₁₀ & PM_{2.5} shall be carried out in the impact and buffer zone and records shall be maintained. If at any stage these levels are found to exceed the prescribed limits, requisite restorative measures shall be implemented immediately. The location of the monitoring stations shall be fixed in consultation with the Regional Officer of the Board. Consolidated daily reports shall be submitted to the concerned Regional Officer on monthly basis.
9. Online stack monitoring shall be provided for the boiler stack and the data shall be connected to Board website. Two continuous Ambient Air Quality monitoring (CAAQM) stations (upwind and downwind directions) shall be installed and data shall be connected to Board website.
10. **The proponent shall ensure compliance of the National Ambient Air quality standards notified by MoEF, Gol vide notification No. GSR 826(E), dated. 16.11.2009 during construction and regular operational phase of the project.**
11. Adequate dust extraction system such as cyclones/ bag filters and water spray system in dusty areas such as surroundings of coal stacking area, coal crushing, transfer lines and other coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.
12. Raw materials shall be transported in covered trucks. Raw material shall be stored under sheds. All the belt conveyors shall be covered with G.I. sheets. Appropriate dust suppressions 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.
13. The industry shall take following mitigation measures to control fugitive emissions during construction and operational state:
 - Vehicles shall be managed to avoid traffic congestions and shall provide parking facilities.
 - Automated mechanical water sprinkling shall be provided on roads and at dusty construction material storage areas, for suppression of dust. Mechanized handling equipment shall be used for loading & unloading operations.
 - Vehicles shall comply with emission standards shall have valid PUC certification.

14. A sampling port with removable dummy of not less than 15 cm diameter shall be provided in the stack at a distance of 8 times the diameter of the stack from the nearest constraint such as bends etc. A platform with suitable ladder shall be provided below 1 meter of sampling port to accommodate three persons with instruments. A 15 AMP 250 V plug point shall be provided on the platform.
15. The generator shall be installed in a closed area with a silencer and suitable noise absorption systems. The ambient noise level shall not exceed 75 dB(A) during day time and 70 dB(A) during night time.

Solid Waste:

16. The proponent shall comply with the following:

| Sl. No | Solid Waste generated | Quantity | Method of Disposal |
|--------|-----------------------|------------|---|
| 1 | Bottom Ash | 51.78 TPA | Used for their own Cement manufacturing i.e, Portland Pozzolona Cement (PPC). |
| 2 | Fly Ash | 207.12 TPA | Used for their own Cement manufacturing i.e, Portland Pozzolona Cement (PPC). |
| 3 | ETP Sludge | 30 TPM | Used as manure. |

17. Fly ash shall be collected in dry form and storage facility (silos) shall be provided. 100% fly ash utilization shall be ensured from 4th year onwards.
18. Adequate safety measures shall be provided in the plant area to check / minimize spontaneous fires in coal yard, especially during summer season.
19. Storage facilities for auxiliary liquid fuel such as LDO /HFO/LSHS shall be made in the plant area where risk is minimum to the storage facilities. Disaster Management Plan shall be prepared to meet any eventuality in case of an accident taking place. Mock drills shall be conducted regularly and based on the same, modifications required, if any shall be incorporated in the Disaster Management Plan. Sulphur content in the liquid fuel shall not exceed 0.5 %.
20. The following rules and regulations notified by the MoE&F, GoI shall be implemented.
 - a) Hazardous waste (Management, Handling and Transboundary Movement) Rules, 2008.
 - b) Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989.
 - c) Fly ash notification S.O.2804 (E), dt. 3.11.2009.
 - d) Batteries (Management & Handling) Rules, 2010.
 - e) E-Waste (Management & Handling) Rules, 2012.

Other Conditions:

21. The Proponent shall allocate a minimum of 1.0 % of its project cost of Rs. 141.02 crores towards CSR activities during construction period and

22. Green belt of adequate width and density with minimum area of 33% of total area, shall be developed along the boundary of the industry. Green belt development shall be started along with the construction.
23. The proponent shall achieve 100% disposal of fly ash and bottom ash as per Fly Ash Notification issued by MOE&F, GOI vide S.O.2804 (E), dated 3.11.2009.
24. The proponent shall ensure that there shall not be any change in the process technology and scope of working without prior approval from the Board.
25. The proponent shall comply with all the directions issued by the Board from time to time.
26. Concealing the factual data or submission of false information/ fabricated data and failure to comply with any of the conditions mentioned in this order and attract action under the provisions of relevant pollution control Acts.
27. The Board reserves its right to modify above conditions or stipulate new / additional conditions and to take action including revoke of this order in the interest of environment protection.
28. The Board reserves its right to modify above conditions or stipulate any additional conditions including revocation of this order in the interest of environment protection.
29. Any person aggrieved by an order made by the State Board under Section 25, Section 26, Section 27 of Water Act, 1974 or Section 21 of Air Act, 1981 may within thirty days from the date on which the order is communicated to him, prefer an appeal as per Andhra Pradesh Water Rules, 1976 and Air Rules, 1982, to such authority (hereinafter referred to as the Appellate Authority) constituted under Section 28 of Water (Prevention and Control of Pollution) Act, 1974 and Section 31 of the Air (Prevention and Control of Pollution) Act, 1981.

Sd/-
MEMBER SECRETARY

To,
M/s. Durga Cement Works,
(A unit of M/s. Andhra Cements Ltd),
Sy. No. 814 & 815, Gamalapadu (P), Durgapuram (V),
Dachepalli (M), Guntur District

/// T.C.F.B.O///

JOINT CHIEF ENVIRONMENTAL ENGINEER(CFE)

14/8

Annexure-B-2

WELFARE MEASURES OF WORKERS FOR THE CONSTRUCTION OF CPP

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 & both facilities provided
6. Free Medical facilities through camp hospital and tie up with Govt. / Private Hospital



Annexure B-3

2 No. On line ambient air quality monitoring system installed



4 Ambient Air Monitoring Stations



Near Naguleru River (Near mines)



Near Mines office



Near CPP

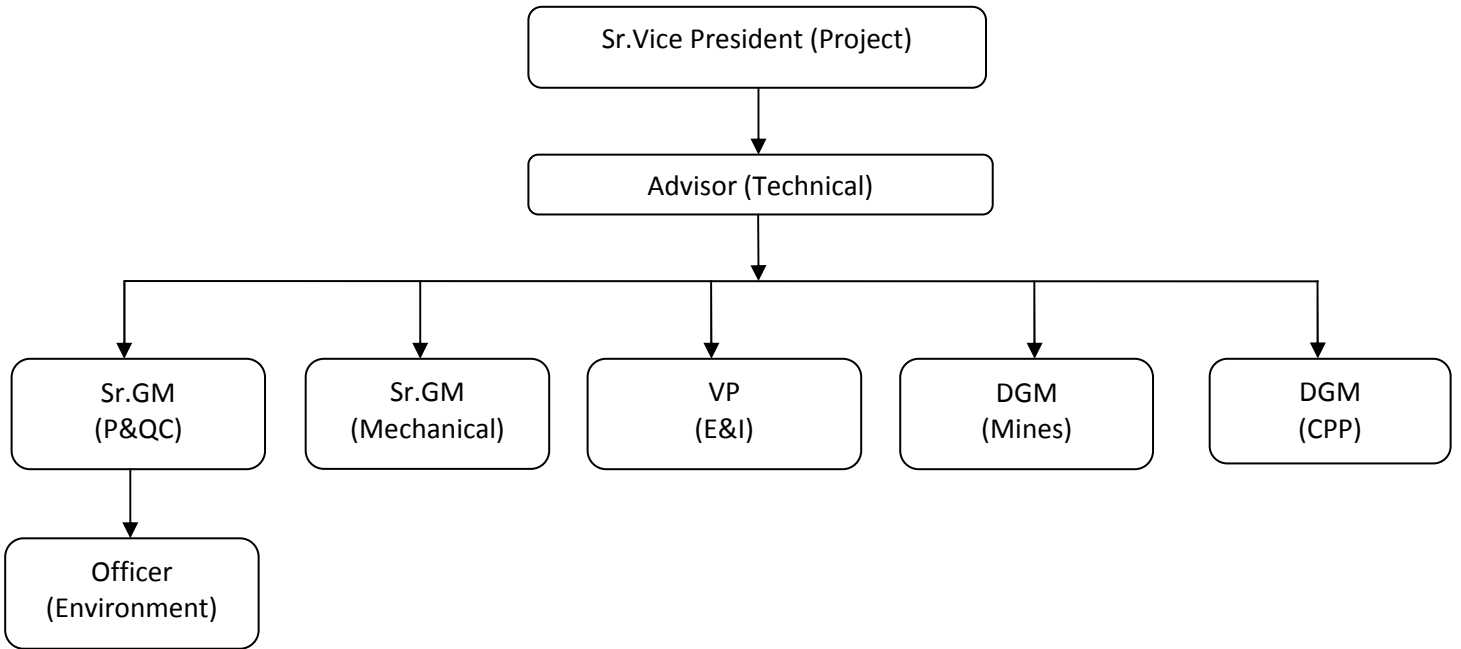


Colony

Annexure-B-4

DURGA CEMENT WORKS
(A UNIT OF ANDHRA CEMENTS LIMITED)
GAMALAPADU (V), DECHEPALLI (M)
Dist. Guntur, AP

ORGANIZATION STRUCTURE OF ENVIRONMENT MAMNAGMENT CELL



Annexure B-5

CSR EXPENDITURE

The Company has spent /would incur an expenditure of approximately 87.99 Lakhs in providing the CSR activities during the year 2013

| S.N | Item | Expenditure to be incurred during 2013(Rs.in Lakhs) |
|-----|---|---|
| 1 | A. Medical Camps (every Quarter) B. Assistance in improving hygiene | 7.00 2.00 |
| 2. | Drinking water supply scheme | 2.40 |
| 3. | Dandivagu life irrigation scheme | 1.60 |
| 4. | Repair /construction of roads in the villages | 40.00 |
| 5. | Electrification to Srinagar village streets | 1.03 |
| 6. | Organising Nation Athletic champion sports meet,guntur | 3.00 |
| 7. | Financial assistance for maintenance of religious places in srinagar,ramapuram and gamalapadu village | 0.96 |
| 8. | Renovation works in various school | 20.00 |
| 9. | Renovation of Panchayat Bhavan /Community halls | 10.00 |
| | Total | 87.99 |

Annexure-B-6

DURGA CEMENT WORKS

A Unit of Andhra Cements Limited

To,

DT: 21.07.2013

1. The Village Secretary,
Gamalapadu
2. The Village Secretary,
Ramapuram,
3. The Village Secretary,
Srinagar,
4. The Village Secretary,
Bhatrupalam,
5. The Village Secretary,
Pondugala,

Sub: submission of copies of "Environment Clearance of 30 MW CPP" at
Andhra Cements Limited... Reg.

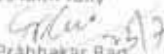
Dear Sir,

The Environment Clearance (E.C) for 30 MW Captive power plant has been issued to our Andhra cements limited, Durga cements works, Dachepalli on 10.07.2013 by SEIAA Andhra Pradesh, MOEF Government of India. As per clause Xiii of general conditions of E.C. Copies of E.C are required to be submitted to heads of the Government Local bodies and village panchayats in which the cement plant falls under.

This is for your kind information please.

Thanking you sir,

Yours faith fully


M. Prabhakar Rao
D.G.M (A&L)



Regd Office &
Factory

ANDHRA CEMENTS LIMITED

Durga Cement Works, Durgapuram, Srinagar (P.O.)
Dachepalli - 522414, Guntur District, Andhra Pradesh
Ph : +91 - 8649 - 257428, Fax : +91 8649-257428

DURGA CEMENT WORKS

A Division of Jaypee Cement Limited

To,
The Station House Officer,
Dachepalli

DT: 23.07.2013

Sub: submission of copies of "Environment clearance of 30 MW
CPP" at Andhra Cements Limited.... Reg.

Dear Sir,

The Environment Clearance (E.C) for 30 MW Captive power plant has been issued to our Andhra cements limited, Durga cements works, Dachepalli on 10.07.2013 by SEIAA Andhra Pradesh, MOEF Government of India. As per clause XIII of general conditions of E.C, Copies of E.C are required to be submitted to heads of the Government Local bodies and village panchayats in which the cement plant falls under.

This is for your kind information please.

Thanking you sir,

Yours faith fully


M.Prabhakar Rao
D.G.M (A&L)

Sir,
Received
copy
R.S.R. J.P.C.

In Date: 24-07-2013

STATION HOUSE OFFICER
Dachepalli P

Copy to: Sub Divisional Police officer, Gurajala.


JAYPEE

Regd. Office &
Factory

ANDHRA CEMENTS LIMITED

Durga Cement Works, Durgapuram, Srisaigal (P.O.),
Dachepalli - 522414, Guntur District, Andhra Pradesh
Ph: +91-8349-257428 Fax: +91-8349-257429

DURGA CEMENT WORKS

A Unit of Andhra Cements Limited.

To,

DT: 23.07.2013

The Tahasiladar,
Dachepalli (M)

Sub: submission of copies of "Environment clearance of 30 MW
CPP" at Andhra Cements Limited.... Reg.

Dear Sir,

The Environment Clearance (E.C) for 30 MW Captive power plant has been issued to our Andhra cements limited, Durga cements works, Dachepalli on 10.07.2013 by SEIAA Andhra Pradesh, MOEF Government of India. As per clause Xiii of general conditions of E.C, Copies of E.C are required to be submitted to heads of the Government Local bodies and village panchayats in which the cement plant falls under.

This is for your kind information please.

Thanking you sir,

Yours faith fully



M.Prabhakar Rao
D.G.M (A&L)



JAYPEE
GROUP

ANDHRA CEMENTS LIMITED

Regd. Office & Factory : Durga Cement Works, Durgapuram, Srinagar (P.O),
Dachepalli - 522414, Guntur District, Andhra Pradesh
Ph : +91 - 8649 - 257428, Fax : +91 8649-257428

DURGA CEMENT WORKS

A Unit of Andhra Cements Limited

To,

DT: 23.07.2013

The Mandal Development Officer,

Dachepalli (M)

Sub: submission of copies of "Environment clearance of 30 MW
CPP" at Andhra Cements Limited... Reg.

Dear Sir,

The Environment Clearance (E.C) for 30 MW Captive power plant has been issued to our Andhra cements limited, Durga cements works, Dachepalli on 10.07.2013 by SEIAA Andhra Pradesh, MOEF Government of India. As per clause Xiii of general conditions of E.C, Copies of E.C are required to be submitted to heads of the Government Local bodies and village panchayats in which the cement plant falls under.

This is for your kind information please.

Thanking you sir,

Yours faith fully


M. Prabhakar Rao
D.G.M (A&L)


M.P.D.O.
M.P.P. DACHEPALLI


JAYPEE
GROUP

Regd. Office &
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ANDHRA CEMENTS LIMITED

Durga Cement Works, Durgapuram, Srinagar (P.O),
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Ph : +91 - 8649 - 257428. Fax : +91 8649-257428

AnnexureB-7

Advertisement on news paper of Environment Clearance of CPP 30 MW

ప్రకటన
మన ప్రభుత్వం (ఆంధ్ర ప్రదేశ్ ప్రభుత్వం) నుండి 30 MW కెప్టివ్ పవర్ ప్లాంట్ ఏర్పాటు చేయడానికి అనుమతి కోసం State Level Environment Impact Assessment Authority (SEIAA) of ఆంధ్ర ప్రదేశ్ ప్రభుత్వం ద్వారా ప్రకటించబడిన ఆర్డర్ నెంబర్ SEIAA/AP/GTR-54/2012 Dt. 10/07/2013 కింద ఏర్పాటు చేయబడిన ప్రాజెక్టు యొక్క పేరు: **Project Proponent: Durga Cement Works (A unit of Andhra Cements Limited of Jaypee Group) Durgapuram (V), Dachepalli (M), Guntur District.**

ENADUS-19/7/2013

PUBLIC NOTICE

Environment Clearance has been accorded to Durga Cement Works, a unit of Andhra Cements Limited of Jaypee Group by the State Level Environment Impact Assessment Authority, Andhra Pradesh, Ministry of Environment and Forests (MoEF), Govt. of India, for the establishment of 30 MW Captive Power Plant at Durga Cement Works, Durgapuram (V), Dachepalli (M), Guntur District, Andhra Pradesh. The Environment Clearance has been accorded by the Ministry vide their order no SEIAA/AP/GTR-54/2012 Dt- 10/07/2013.

Copy of Clearance letter is available with Andhra Pradesh Pollution Control Board and SEIAA, A.P. This may also be seen at the website of Jaypee Group.

**Project Proponent
DURGA CEMENT WORKS
(A UNIT OF ANDHRA CEMENTS LIMITED OF JAYPEE GROUP)
DURGAPURAM (V), DACHEPALLI (M),
GUNTUR DISTRICT**

PUBLIC NOTICE

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Copy of Clearance letter is available with Andhra Pradesh Pollution Control Board and SEIAA, A.P. This may also be seen at the website of Jaypee Group.

Project Proponent
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