



ANDHRA PRADESH POLLUTION CONTROL BOARD
PARYAVARAN BHAVAN, A - 3, INDUSTRIAL ESTATE,
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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 ///

B. R. R.
JOINT CHIEF ENVIRONMENTAL ENGINEER(CFE)

No.	Particulars	Amount
1	Electricity	30 MW
2	Fuel - Imported Cost	507.34
3	(T.C.F.B.O)	

As per the application, the above details are 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 41.57 hectares.

The above site was inspected by the Environmental Engineer, Regional Office, Guntur, A.P. Pollution Control Board on 03.08.2013 and observed that the site is surrounded by

North : Mining pit
South : Dry lands
East : Dry lands
West : Extension of the plant

The Board, after careful scrutiny of the application and verification report of Regional Office, hereby issues CONSENT FOR ESTABLISHMENT in 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 thereunder. This order is issued to manufacture the products as mentioned at para (7) only.

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 be 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.
 - a) Industrial cooling, boiler feed.
 - b) Domestic purposes.
 - c) Processing, whereby water gets polluted and pollutants are easily bio-degradable.
 - d) 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/Nm3

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	
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:

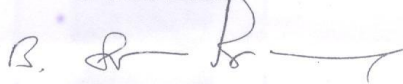
21. The Proponent shall allocate a minimum of 1.0 % of its project cost of Rs. 141.02 crores towards CSR activities during construction period and

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)

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