



ANDHRA PRADESH POLLUTION CONTROL BOARD
PARYAVARAN BHAYAN, A - 3, INDUSTRIAL ESTATE,
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REGD. POST WITH ACK. DUE
CONSENT ORDER FOR ESTABLISHMENT

Order.No.102/PCB/CFE/RO-TPT/HO/2007

Dt. 05.05.2007

Sub: PCB - CFE - M/s. Eswar Cements (P) Ltd., Chinna Komerla, Talamanchipatnam and Nawabpeta panchayaths of Mylavaram (M), Kadapa 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) Industry's application received through SWCC received on 19.9.2006
 - 2) Public hearing conducted on 28.11.2006 at Z.P High School, Premises, Chinna Komerla, Talamanchipatnam and Nawabpeta Panchayaths, Mylavaram (M), Kadapa District.
 - 3) R.O's inspection report dt. 22.3.2007
 - 4) CFE Clearance Committee meeting held on 03.04.2007
 - 5) T.O. Lr.dt. 10.4.2007
 - 6) Industry's Lr.dt.16.4.2007 submitted Environmental Clearance issued by MOE&F, GOI vide Lr.dt. 5.4.2007
 - 7) E.E., R.O., Tirupati vide Lr.dt. 16.4.2007
 - 8) CFE Clearance Committee meeting held on 27.4.2007
 - 9) Proponent's Lr.dt. 30.4.2007

1. In the reference 1st cited, an application was submitted to the Board seeking Consent for Establishment (CFE) to set up Cement plant, Captive Power Plant and limestone mining to produce the following with a project cost of Rs.1010.43 crores.

Sl. No.	Products	Capacity (million metric tones / annum)
1.	Lime stone mining	3.819 MMTPA
2.	Ordinary Portland Cement / Pozzolana Portland cement	4.06 MMTPA
3.	Clinker	2.60 MMTPA
4.	Electricity (coal based Thermal Power Plant)	40 MW

2. As per the application, the above activity is to be located at Chinna Komerla, Talamanchipatnam and Nawabpeta panchayaths of Mylavaram (M), Kadapa District.
3. The above site was inspected by the Environmental Engineer, Regional office, Tirupati, A.P Pollution Control Board on 18.10.2006 and found that the site is surrounded by

North : Agricultural lands and Bheemagundam (V) having population of about 1000 is located at about 2 km from the proposed site.

South : Jammalamadugu -Kumool road (R&B road) and Chinnakomerla village having population of about 2500 located on the other side of the road.

East : Nawabpeta Gram Panchayath road and the Nawabpet having population of about 2000 located adjacent to the proposed site.

West : Agricultural lands followed by Talamanchipatnam having population of about 2500 is located about 400 m away and Madhavapuram village having population of about 400 located at about 800 m away.

4. The Board, after careful scrutiny of the application and verification report of Regional Officer, hereby issues **CONSENT FOR ESTABLISHMENT** to your activity 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 produce 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. Eswar Cements (P) Ltd.,
H.No.3-5-874/4, II floor,
Hyderguda, Hyderabad - 500 029.

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

P. Ravindar
JOINT CHIEF ENVIRONMENTAL ENGINEER (CFE)

7/5/07

SCHEDULE - A

1. Progress on implementation of the project shall be reported to the Regional Office, Tirupati, 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 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 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 borewell / Mylavaram reservoir and the maximum permitted water consumption is 2500 KLD (as informed vide lr.dt. 30.4.2007)
2. The Effluent Treatment Plant (ETP) shall be constructed and commissioned and Air Pollution control equipment shall be installed along with the commissioning of the activity. All the units of the ETP shall be impervious to prevent ground water pollution.
3. The effluents shall be treated to the on land for irrigation standards, stipulated under Environment (Protection) Rules, 1986, notified and published by Ministry of Environment and Forests, Government of India as specified in schedule VI vide G.S.R.422 (E), dt.19.05.1993 and its amendments thereof, and additional standards / conditions stipulated by APPCB.

4. The maximum Waste Water Generation (KLD) shall not exceed the following (as per E.C)

Sl. No	Purpose	Wastewater generation (KLD)
1.	Washings for workshop	372
2.	Back wash from softener	
3.	Sewage from plant	22
4.	Sewage from township	188
	Total	582

Effluent source	Treatment proposed	Mode of final disposal
Washings from workshop, Back wash from softener	ETP	For onland applications.
Sewage from township & plant	STP of capacity – 500 KLD	

5. Separate meters with necessary pipe-line shall be provided for assessing the quantity of water used for each of the purposes mentioned below.
- Industrial cooling, spraying in mine pits
 - 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 proponent shall comply with the following for controlling air pollution.

Sl. No	Sources	Capacity	Stack height	Control equipment	SPM Standard
1.	Boiler (2nos)	2 x 110 TPH	110 m (as per EC)	ESP	50 mg/Nm ³
2.	Rotary Kiln (VRM)	8000 TPD	90 m (as per EC)	Bag house	
3.	Raw mill (VRM)	660 TPH	90 m	Bag filter	
4.	Coal mill (VRM)	75 TPH	40 m	Bag filter	
5.	Cement mill (VRM)		45 m	Bag house	
6.	Bumer – Kiln	28 TPH			
7.	Clinker cooler	8000 TPH	45 m	ESP	
8.	Coal crusher	150 TPH	15 m	Bag filter	
9.	Cement grinding (3 nos)	3 x 220 TPH	20 m	Bag filter	

7. Adequate stack height shall be provided for D.G. sets as per CPCB norms.
8. Measures to control Fugitive Emissions:
- Transportation:** C.C. roads shall be laid in the cement plant to prevent dust emissions. To prevent fugitive dust, from clinker transport, water sprinkling shall be practiced during transport activities.

- b) Conveyor Belts and Bucket conveyors: To control the dust emissions from dropping / transfer points of the belt and bucket conveyors, bag filters shall be provided at various locations of the transfer points.
 - c) Storage Piles: All the raw material stockpiles shall be covered with aprons to mitigate fugitive dust emissions.
 - d) A closed clinker stockpile system and bag filter for clinker hoppers.
 - e) Water sprinkling arrangements in the raw material stockyards and cement bags loading areas.
 - f) Dust suppression system at dump hopper of coal / limestone.
 - g) Raw materials / cement shall be fully covered during transportation to / from the site by road / rail.
 - h) Open areas within the plant premises and along with boundaries of the plant premises shall be covered under greenbelt. A thick greenbelt shall be developed all along the plant boundary etc.
9. 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.
 10. The proponent shall provide interlocking system for air pollution control equipments provided with raw material feeding system so that the feeding of raw material would be stopped incase the air pollution control equipments fails.
 11. 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.
 12. The CPP shall have Air Cooled Condenser System for cooling of water for CPP.

Solid Waste:

13. The proponent shall comply with the following:

Sl. No.	Source	Quantity	Method of disposal
1.	ETP sludge	5 MT /annum	Landfill
2.	STP sludge	10 MT/month	Manure for greenbelt development

14. Captive Power Plant:

- The total ash produced from CPP would be about 180 TPD, out of which 15% (27 TPD) shall be bed ash and rest 85% (153 TPD) shall be fly ash to be collected from boiler bag filters / ESP / economizer air heater.
- Fly ash shall be transported pneumatically to the cement plant flyash silo and shall be used in manufacturing of PPC.
- Bed ash shall be collected from overflow spouts into ash cooler hoppers. Ash from hoppers, after sufficient cooling will be conveyed pneumatically to a bed ash storage silo for further use as boiler bed material.

15. Waste oil generated shall be reused in the plant, and finally burnt in the kiln or sold to authorised recyclers / re-processor as mentioned in the Environmental Clearance.
16. The Hazardous waste (Management and Handling), Rules, 1989 and regulations notified by the MOE&F, GOI shall be implemented.

Mining:

17. The proponent shall explore the possibility to convert the mine pit into reservoir by closing all crevices and allowing rain water into the mine pit.
18. The proponent shall take up following measures to control fugitive dust emissions:

a) Drilling:

- Adopting wet drilling & wagon-drilling machine with attached water drum during drilling operations
- Controlled blasting operations.
- In semi-hard to soft formations, use of hydraulic excavators for rock breakage as well as for loading.
- Use of sharp teeth for excavators for reducing dust generation.
- Provided dust masks to the workers.
- Suspension of excavation operations during periods of very strong winds.
- Plantation of wide leaf trees and tall grass along approach roads and on safety barrier zones to help suppress the dust.

b) Haulage:

- Regular maintenance of haul roads.
- Use of water tankers for regular water sprinkling on the haulage roads to ensure effective dust suppression.
- Avoiding over filling of tippers and consequent spillage on the roads.
- Effectively covering ore carrying trucks by tarpaulin to avoid escape of fines to the atmosphere.
- Regularly monitoring of air quality both in the core zone and the buffer zone.

19. The industry shall take up following measures to control noise pollution:
 - Selection of suitable machinery and equipment, proper mounting of equipment, providing noise insulation/padding wherever practicable and machinery fitted with properly designed silencers.
 - Proper maintenance of noise generating parts of the machine.
 - Provision of earmuffs to workers as a measure to protect their ears.
 - Thick plantation in and around the mine.
 - Proper gradient of haul roads to reduce cumulative noise levels.
 - To carry out noise surveys during different seasons at the mine

Other Conditions:

20. Green belt of width 15 m shall be developed along the boundary of the industry. Green belt development shall be started along with the construction activity. The total area of the greenbelt shall be 90 ha as committed in the EIA report.
21. Greenbelt of width 25 m shall be developed along the boundary of mining area.

22. The recommendations / commitments made during the Public Hearing held on 26.11.2006 at Z.P High School, Premises, Chinna Komeria, Talamanchipatnam and Nawabpeta Panchayaths, Mylavaram (M), Kadapa District shall explicitly be followed from pollution control point of view.
23. The Proponent has obtained Environmental Clearance from MOE&F, Govt. of India dt. 5.4.2007 for the proposed cement plant.
24. The proponent shall obtain Environmental Clearance for mining operations. Mining operations shall be carried after obtaining Environmental Clearance from MOE&F, GOI.
25. The proponent shall obtain clearance from Central Ground Water Authority to draw ground water.

Sd/-
MEMBER SECRETARY

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