



REGD.POST WITH ACK.DUE

CONSENT ORDER FOR ESTABLISHMENT

Order No.265/PCB/CFE/RO-GNT/HO/2008

Dt.26 .06.2008

Sub: PCB - CFE - M/s. Bhavya Cements Ltd., Sy.No. 1172, 838-82, Tangeda (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) Public Hearing conducted on 30.4.2008 at Tangeda (V), Dachepalli (M), Guntur District.
 - 2) Industry's application received through SWCC on 17.5.2008 & addl. Information on 24.5.200 & 27.5.2008
 - 3) R.O's inspection report dt. 27.5.2008
 - 4) CFE Clearance Committee meeting held on 12.06.2008
 - 5) Industry's Ir.dt. 13.6.2008.

1. In the reference 1st cited, an application was submitted to the Board seeking Consent for Establishment (CFE) to set up for Cement Manufacturing, Lime Stone Mining & Captive power generation to produce the following products with installed capacities as mentioned below, with a project cost of Rs. 1045 Crores in an area of 146.77 acres for Plant, Colony & Captive Power plant and mine lease area of 1162.05 acres.

Sl. No.	Products	1 st Phase	2 nd Phase	Total
1	Cement	1.4 MiTPA	2.6 MiTPA	4.0 MiTPA
2	Captive Power Plant			15 MW
3	Lime Stone Mining	14,85,000 TPA	27,22,500 TPA	42,07,500 TPA

2. As per the application, the above activity is to be located at Sy.No. 1172, 838-82, etc., Tangeda (V), Dachepalli (M), Guntur District
3. The above site was inspected by the Environmental Engineer and Asst. Environmental Engineer, Regional office, A.P Pollution Control Board, Guntur on 22.4.2008 and found that the site is surrounded by

Cement & Power Plant

- North** : Vacant land of the unit followed by greenbelt area, Township and then Tangeda Village
South : Dry Agricultural lands
East : Dachepalli to Tangeda road
West : Storm Water drain

Mining site:

- North** : Dry Agricultural lands
South : Dry Agricultural lands
East : Dry Agricultural lands
West : Tangeda Village to some extent and Dachepalli - Tangeda Road

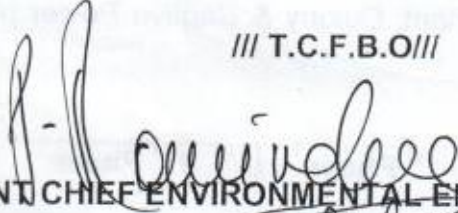
4. The Board, after careful scrutiny of the application and verification report of Regional Officer, hereby issues CONSENT FOR ESTABLISHMENT to your unit Under Section 25 of Water (Prevention & Control of Pollution) Act 1974 and Section 21 of Air (Prevention & Control of Pollution) Act, 1981 and the 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

T6
M/s. Bhavya Cements Ltd.,
Plot No. A1, Film Nagar,
Jubilee Hills, Hyderabad - 500 033.

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


JOINT CHIEF ENVIRONMENTAL ENGINEER (CFE)

28/6/08

SCHEDULE - A

1. Progress on implementation of the project shall be reported to the Regional Office, Guntur, 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 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 Krishna river and the maximum permitted water consumption is 3073 KLD.

SI No.	Description	Water Consumption (KLD)	
		Cement Plant, Colony & CPP	Mines
1	Process (VRM Spray + RM Gear box + Instrument cooling etc)	500	-
2	Boiler water makeup	25	-
3	Cooling tower makeup	2250	-
4	DM Plant Regeneration	17	-
5	Mines (Dust suppression)	-	49
6	Domestic water		
	a) Plant + canteen	70	
	b) Township	162	
	Total	3024	49
	Grant total	3073 KLD	

2. The Sewage Treatment Plant (STP) 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 STP 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:

SI No.	Description	Waste water generation (KLD)	
		Cement Plant, Colony & CPP	Mines
1	Process	-	-
2	Boiler blow down	2.5	-
3	Cooling tower blow down	225.0	-
4	DM Plant Regeneration	17.0	-
5	Mines (Dust suppression)	-	-
6	Domestic water		
	a) Plant + canteen	56.0	-
	b) Township	130.0	-
	Total	430.50	-

Effluent source	Treatment	Mode of final disposal
Trade effluents (244.5 KLD)	Neutralisation & primary treatment	After primary treatment, the trade effluents shall be sent to STP for further treatment along with domestic sewage.
Domestic (186 KLD)-	STP (500 m3/day capacity)	Treated water from STP shall be used for plantation and Gardening purpose within the premises.

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

Sl. No.	Source	Stack height (m)	Control equipment
Phase -I			
1	Raw mill / Kiln	130	Bag house
2	Coal mill	55	Bag filter
3	Cooler	50	ESP
4	Cement mill	55	Bag house
Captive Power Plant			
1	Boiler	71	ESP
2	Raw Coal hopper	-	Bag filter
Phase -II			
1	Raw mill / Kiln	140	Bag house
2	Coal mill	55	Bag filter
3	Cooler	50	ESP
4	Cement mill	55	Bag house

7. SPM Concentration in emissions from the Kiln and other air pollution sources shall not exceed 50 mg/Nm³. The SPM concentration from all the sections shall not exceed 250 mg/Nm³.
8. The industry shall install online monitoring equipments for the major stacks viz., Raw mill / Kiln, Clinker cooler etc.
9. The proponent shall comply with the following control measures to control the fugitive emissions generated during mining operations.
- Wet drilling to suppress the dust emission from the drill machines at its source by inbuilt water injection system shall be provided.
 - Fixed continuous water spraying system on the haul road shall be provided.
 - Regular water sprinkling on blased heaps and haul roads with water tankers shall be done.
 - Proponent shall use sharp drill bits for drilling holes and arrangements for bit regrinding. Charge the holes by using optimum charge and using time delay detonator.
 - Avoiding blasting during high windy periods, night times and temperature inversion periods.
 - Regular grading of haul roads and service roads to clear accumulation of loose material shall be done.
 - Excavation operations shall be suspended during periods of very strong winds.
 - Avoiding over filling of dumpers and consequent spillage on the roads.

- The vehicles and machinery shall be kept in well –maintained condition so that emissions are minimized.
 - Afforestation for control of dust. To arrest the amount of airborne dust extensive plantation shall be done within the mine lease area and outside the mining lease.
 - Plantation of wide leaf trees, creepers, tall grass along approach roads, and on barrier zones shall be done to help suppress dust.
 - Operator cabins in all items of major HEMM equipment shall be enclosed to minimize dust exposure of the operators.
10. The proponent shall comply with the following control measures to control the noise generated during mining operations.
- Proper and regular maintenance of vehicles, machinery and other equipment.
 - Carrying out blasting only during day time and not on cloudy days.
 - Limiting time exposure of workers to excessive noise.
 - The noise generated by the machinery shall be reduced by proper lubrication of the machinery and equipment.
 - The workers employed shall be provided with protection equipment, earmuffs and ear-plugs, as a protection from the high noise level generated at the plant site wherever required.
 - Noise levels shall be also controlled by using optimum explosive charge, proper delay detonators and proper stemming to prevent blow out of holes.
 - Proper and timely maintenance of mining machinery shall be done.
 - Speed of trucks entering or leaving the mine shall be limited to moderate speed of 25 kmph to prevent undue noise from empty trucks.
11. A sampling port with removable dummy of not less than 15 cm diameter shall be provided in the stacks 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.
12. 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.
13. 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:

14. The proponent shall comply with the following:

SI No.	Solid waste	Quantity	Mode disposal
1	Cement dust	200 Kg/ Day	Recycled back to process
2	Coal Ash	130 TPD	Manufactuirng of PPC
3	Waste oil	250 Lt/Annum	Disposed to authorized agencies
4	Scrapped automobiled batteries	4 Nos/ Year	Sale to authorised agency

15. The following rules and regulations notified by the MOE&F, GOI shall be implemented.

- Hazardous waste (Management and Handling), Rules, 1989
- Manufacture, storage and import of hazardous chemicals Rules, 1989.

Other Conditions:

16. Thick Green belt shall be developed along the boundary of the industry including Cement Plant, Captive power plant and township and mine lease area. Green belt development shall be started along with the construction activity.

The industry shall develop thick greenbelt around the mine lease area, haul roads, OB dump sites etc.

- The recommendations / commitments made during the Public Hearing held on 30.4.2008 at Tangeda (V), Dachepalli (M), Guntur District. shall explicitly be followed from pollution control point of view.
- The proponent shall obtain Environmental Clearance from MOE&F, GOI as per EIA Notification, 2006 before starting mining and construction activity.
- The proponent shall obtain permission from Irrigation Department to draw water from Krishna river.

sd/-
MEMBER SECRETARY

To
M/s. Bhavya Cements Ltd.,
Plot No. A1, Film Nagar,
Jubilee Hills, Hyderabad – 500 033.

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

P. Harindoo
JOINT CHIEF ENVIRONMENTAL ENGINEER(CFE)
28/6/08