



CONSENT ORDER FOR ESTABLISHMENT

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

Dt:06.12.2018

Sub: APPCB – CFE – **M/s. Bhavya Cements Limited, Sy. No. 1172, 838-82, Tangeda (V), Dachepalli (M), Guntur District – Consent for Establishment of the Board for Expansion** 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. CFE order dt. 26.06.2008..
 2. Industry's CFE application received through A.P. Single Desk Portal on 08.11.2018.
 3. R.O's inspection report dt.17.11.2018.
 4. CFE Committee meeting held on 20.11.2018.
 5. Industry's lr.dt.01.12.2018.

1. In the reference 2nd cited, an application was submitted to the Board seeking Consent for Establishment (CFE) for **expansion for generation of Power by Waste Heat Recovery of Kiln pre-heater, Cooler gases & Tertiary air Duct** with an additional project cost of Rs. 73.02 Crores.

Sl. No.	Activity	As per CFE order dt.26.06.2008	Proposed
1	Cement	4.0 Million TPA	-
2	Lime Stone Mining	42,07,500 TPA	-
3	Captive Power Plant	15 MW	--
4	Waste Heat Recovery Power Plant	--	7,220 KWH (7.22 MW)

2. As per the application, the above activity is to be located in the existing Cement plant premises at Sy. No. 1172, 838-82, Tangeda (V), Dachepalli (M), Guntur District in an area of 146.77 Acres.
3. The above site was inspected by the Asst. Environmental Engineer, Regional Office, Guntur, A.P Pollution Control Board on 16.11.2018 and found that the site is surrounded by

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.

4. The Board, after careful scrutiny of the application, verification report of Regional Officer and recommendations of the CFE committee hereby issues **CONSENT FOR ESTABLISHMENT for EXPANSION** for generation of Power by **Waste Heat Recovery** of Kiln pre-heater, Tertiary Air Duct and Cooler gases generating from Cement Plant 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 the activity as mentioned at para (1) only.**
5. This Consent Order now issued is subject to the conditions mentioned in Annexure.
6. This order is issued from pollution control point of view only. Zoning and other regulations are not considered.
7. **This order is valid for a period of 7 years from the date of issue.**

Encl: Annexue

**VIVEK
YADAV** Digitally signed by
VIVEK YADAV
Date: 2018.12.10
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MEMBER SECRETARY

To

**M/s. Bhavya Cements Limited, (WHRP)
Sy. No. 1172, 838-82, Tangeda (V),
Dachepalli (M), Guntur District.
bhavyacement@yaho.co.in**

Copy to: 1. The JCEE, Z.O: Vijayawada for information and necessary action.
2. The E.E., R.O: Guntur for information and necessary action.

ANNEXURE

- 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.

Water:

- The source of water is Krishna River. The maximum permitted water consumption after installation of WHRP is as following:

SI No.	Description	Water Consumption (KLD)		
		As per CFE order dt.26.06.2008		Proposed
		Cement Plant, Colony & CPP	Mines	WHRP
1	Process (VRM Spray + RM Gear box + Instrument cooling etc)	500	-	2360
2	Boiler water makeup	25	-	
3	Cooling tower makeup	2250	-	
4	DM Plant Regeneration	17	-	
5	Mines (Dust suppression)	-	49	--
6	Domestic water			20
	a) Plant + canteen	70		
	b) Township	162		
	Total	3024	49	2380

- The maximum waste water generation shall not exceed the following:

SI No.	Description	Waste water generation (KLD)		
		As per CFE order dt.26.06.2008		Proposed
		Cement Plant, Colony & CPP	Mines	WHRP
1	Process	-	-	33
2	Boiler blow down	2.5	-	
3	Cooling tower blow down	225.0	-	
4	DM Plant Regeneration	17.0	-	
5	Mines (Dust suppression)	-	-	16
6	Domestic water			
	a) Plant + canteen	56.0	-	
	b) Township	130.0	-	
	Total	430.50	-	49

Treatment & Disposal:

Effluent source	Treatment	Mode of final disposal
Trade effluents 277.5 KLD	Neutralisation & primary treatment	After primary treatment, the trade effluents shall be sent to STP for further treatment along with domestic sewage.
Domestic 202 KLD	STP (500 m ³ /day capacity)	Treated water from STP shall be used for plantation and Gardening purpose within the premises.

4. Under no circumstances the waste water shall be discharged out side the factory premises. The zero discharge shall be implemented.
5. The sewage 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.
6. Separate 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) Process and washings.
 - b) Industrial cooling
 - c) Boiler feed
 - d) Domestic purposes

Air:

7. The proponent shall comply with the following to control air pollution:

As per CFE order dt.26.06.2008:

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

Proposed for WHRPP:

Steam Boilers– 3 Nos.

1 No x 15.5 TPH Capacity for Air Quenching Cooler (AQC),

1 No x 15.1 TPH for pre-heater,

1 No x 8.3 TPH for Tertiary Air Duct (TAD).

8. Industry shall comply with the standards stipulated in the CFO order issued by the Board for the existing cement plant.
9. **The industry shall not stack the raw materials in open place. All the raw materials shall be stored in the sheds.**
10. The industry shall provide concrete roads in the plant and water shall be sprinkled on the roads periodically to control the fugitive dust emissions. Vacuum / pneumatic dust collection system shall be used for cleaning the internal roads.
11. The proponent shall ensure compliance of the National Ambient Air quality standards notified by MOE&F, GOI vide notification No. GSR 826(E), dated. 16.11.2009, during construction and regular operational phase of the project.
12. 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.
13. The generators shall be installed in a closed area with silencers 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 / Hazardous Waste:

14. The industry shall comply with the following after installation of WHRP:

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. All the bag filter dust, raw meal dust, coal dust, clinker dust and cement dust from pollution control devices shall be 100% recycled and reused in the process and used for cement manufacturing. Solid waste from sewage treatment plant (STP) shall be used as manure. No solid waste shall be disposed off from the cement plant. Spent oil, grease and grinding media shall be disposed to licensed vendors.

16. The following rules and regulations notified by the MoEF&CC, GoI shall be implemented.
- Hazardous waste and other wastes (Management and Transboundary Movement) Rules, 2016.
 - Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989.
 - Fly Ash Notification, 2016.
 - Batteries (Management & Handling) Rules, 2010.
 - E-Waste (Management) Rules, 2016.
 - Construction and Demolition waste Management Rules, 2016.

Other Conditions:

17. **The industry shall construct shed for Limestone storage within one year as committed vide Ir.dt.01.12.2018.**
18. The existing green belt shall not be disturbed for the proposed activity. The area of the greenbelt shall not be less than 33% of the total area.
19. The noise levels in and around the plant shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures, etc., on all sources of noise generation.
20. 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.
21. Concealing the factual data or submission of fabricated data and failure to comply with any of the conditions mentioned in this order attracts action under the provisions of relevant pollution control Acts.
22. 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 revoke the order, to review any or all the conditions imposed herein and to make such modifications as deemed fit and stipulate any additional conditions by the Board.
23. 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.

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MEMBER SECRETARY

To

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