



CONSENT ORDER FOR ESTABLISHMENT

Order No. 221 /APPCB/CFE/RO-KNL/HO/2014

Dt: 04.12.2018

Sub: APPCB – CFE – M/s. Penna Cement Industries Ltd (Plant), Nittur(V), & Kamalapadu(V), Yadiki (M), Anantapuram District – Consent for Establishment of the Board for **CFE 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. 01.06.2018.
 2. Industry's CFE application received through A.P. Single Desk Portal on 06.11.2018.
 3. R.O's inspection report dt.17.11.2018.
 4. CFE Committee meeting held on 20.11.2018.
 5. Industry's Ir.dt.04.12.2018.

1. In the reference 2nd cited, an application was submitted to the Board seeking Consent for Establishment (CFE) for **expansion of Waste Heat Recovery Power Plant (WHRP)** with an additional project cost of Rs. 10 Crores.

Cement plant	As per CFE order dt:01.06.2018			Total capacity after expansion		
	Clinker in Million TPA	Cement in Million TPA	WHRB (MW)	Clinker in Million TPA	Cement in Million TPA	WHRB (MW)
Unit –I	1.65	2.0 (OPC/PP C/PSC)	10	1.65	2.0 (OPC/PPC/ PSC)	10
Unit –II (Newline)	2.35	2.6 (OPC/PP C/PSC)	10	2.35	2.6 (OPC/PPC/ PSC)	15
Total	4.0	4.6	20	4.0	4.6	25

2. As per the application, the above activity is to be located within the existing Cement plant premises at Nittur(V), & Kamalapadu(V), Yadiki (M), Anantapuram District in an area of 60 Ha.
3. The above site was inspected by the Environmental Engineer and Asst. Environmental Engineer, Regional Office, Kurnool, A.P Pollution Control Board on 11.11.2018 and found that the site is surrounded by

North : Agricultural land followed by Hillock
South : Agricultural lands
East : Agricultural lands followed by Hillock
West : Agricultural land followed by Boyareddipalli Village.

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 of Waste Heat Recovery Power Plant (WHRPP)** 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: Annexure

VIVEK
YADAV
MEMBER SECRETARY

Digitally signed by
VIVEK YADAV
Date: 2018.12.05
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To

M/s. Penna Cement Industries Ltd (Plant),
Waste Heat Recovery Power Plant (WHRPP),
Nittur (V), & Kamalapadu (V), Yadiki (M),
Anantapuram District.
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dlkabtgan@pennacements.com

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

ANNEXURE

1. 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:

2. The source of water is Mine pit/ Bore-well. The maximum permitted water consumption after expansion of WHRP is as following:

S. No.	Purpose	As per CFE Order dt: 01.06.2018 (KLD)	Proposed for WHRPP (unit-II) (KLD)	Total after expansion of WHRPP (KLD)
a)	Process	800 KLD	---	800 KLD
b)	Industrial Cooling (Makeup) / Humidification / Water spraying)	400 KLD	143 KLD (cooling tower makeup)	543 KLD
c)	Softner/DM plant/RO plant	---	37 KLD	37 KLD
d)	Domestic	230 KLD	---	230 KLD
Total		1430 KLD	180 KLD	1610 KLD

3. The maximum waste water generation shall not exceed the following after expansion of WHRP:

S. No.	Source	As per CFE Order dt: 01.06.2018 (KLD)	Proposed for WHRPP (unit-II) (KLD)	Total after expansion of WHRPP (KLD)
a)	Cooling tower bleed off	---	23 KLD	23 KLD
b)	DM plant regeneration	80 KLD	19 KLD	99 KLD
c)	Domestic (plant and colony)	184 KLD	Nil	184 KLD
Total		264 KLD	42 KLD	306 KLD

Treatment & Disposal:

After expansion:

Effluent source	Treatment	Mode of final disposal
Cooling bleed off (23 KLD)	Collection cum settling tank of capacity – 10 KI (02 Nos..)	After neutralization, the DM regeneration shall be reused after mixing with cooling tower blow down.
DM plant regeneration (99 KLD)		
Domestic (184 KLD)	Sewage Treatment Plant (250 KLD capacity) consisting of treatment units Bar screen, grit chamber, equalization tank, aeration, clarifier, Aerobic digester, pressure sand filter, Activated carbon filter, Hypo chlorite dosing tank, treated water tank, sludge drying beds.	After treatment, the treated domestic waste water shall be used for dust suppression and for greenbelt development.

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 (exp) order dt. 01.06.2018:

Unit-I:

Sl. No	Details of Stack							
a)	Attached to	Raw Mill / Kiln	Kiln feeding system	Clinker cooler	Coal mill	Cement mill	Slag grinding mill	DG set
b)	Capacity	9120 TPD	4546 TPD	4546 TPD	900 TPD	4800 TPD	2040 TPD	1250 KVA
c)	Fuel	Coal/P etcoke	--	--	--	--	--	HSD
e)	Stack height: Above the ground (m.)	120 m	120 m	37.4 m	47.5 m	37.4 m	30 m	21 m
f)	Details of Air Pollution Control Equipment:	RABH	Bag filters	ESP	Bag filters	Bag filters	Bag filters	Silencer with acoustic enclosures

Unit-II

		Proposed for expansion					
No	Details of Stack						
a)	Attached to	Raw Mill / Kiln	Clinker cooler	Coal mill	Cement Mill-1	Cement Mill-2	Lime stone crusher
b)	Capacity of Boiler/ Furnace / Kiln/ Incinerator / D.G. Set/ Others	6500 TPD	6500 TPD	45 TPH	8000 TPD	8000 TPD	1250 TPH

c)	Fuel	Coal/pet coke	---	---	---	---	---
e)	Stack height: Above the ground (m.)	148 m	63 m	73 m	37.4 m	37.4 m	20 m
g)	Details of Air Pollution Control Equipment:	RABH	ESP	Bag filters	Bag filters	Bag filters	Bag filters

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 Waste:

14. The industry shall comply with the following for disposal of Solid Waste:

Sl. No	Type of Waste	Quantity as per CFE order dt. 01.06.2018	Total Quantity after expansion	Mode of final disposal
1	Ball mill (Hi-chrome Balls / scrap)	20 TPA	20 TPA	To authorized parties / returned to the manufacturers / recyclers.
2	Waste Grease & Lube oil	15 TPA	15 TPA	Burnt in the kiln along with the fuel
3	STP sludge	16 TPA	16 TPA	Used as a manure in the premises.
4	Lead acid batteries	200 Nos./annum	200 Nos./annum	To buyers on buy back policy
5	Process (Dust from Bag filters & ESP)	2200 TPD	2200 TPD	Reused in the process.

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 MoE&F, GoI shall be implemented.
 - a) Hazardous waste and other wastes (Management and Transboundary Movement) Rules, 2016.
 - b) Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989.
 - c) Fly Ash Notification, 2016.
 - d) Batteries (Management & Handling) Rules, 2010.
 - e) E-Waste (Management) Rules, 2016.
 - f) Construction and Demolition waste Management Rules, 2016.

Other Conditions:

17. **The industry shall procure another sweeping machine in addition to existing two sweeping machines for regular cleaning of the internal roads within 3 months.**
18. **The existing green belt already developed in 33 acres area shall not be disturbed due to the proposed activity. The industry shall develop green belt in another 17 acres before applying for CFO so that the total area of the greenbelt shall not be less than 33% of the total project 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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