

**ANDHRA PRADESH POLLUTION CONTROL BOARD**

D. No. 33-26-14 D/2, Near Sunrise Hospital, Pushpa Hotel Centre,
Chalamalavari Street, Kasturibaipet, Vijayawada - 520 010
Website: www.appcb.ap.nic.in

CONSENT ORDER FOR ESTABLISHMENT**Order No. 253/APPCB/CFE/RO- VJA/HO/2009****17/10/2019**

Sub:APPCB – CFE – **M/s. The Ramco Cements Limited, KSR Nagar, Jaggaiahpet Mandal, Krishna District - Consent for Establishment (CFE)** for expansion 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. CFE order dt. 24.10.2016.
 2. Industry's CFE application received through AP Single Desk Portal on 16.09.2019.
 3. R.O's inspection report dt. 05.10.2019
 4. CFE Committee meeting held on 10.10.2019.
 5. Industry's Ir.dt.10.10.2019.

1. In the reference 2nd cited, an application was submitted to the Board seeking Consent for Establishment (CFE) for **expansion of clinker production and down sizing the capacity of coal based thermal power plant; without increasing capacity of cement production** as mentioned below with an additional investment of Rs.680 crores.

As per CFE expansion order dt. 24.10.2016:

S.No.	Name of the Products	Quantity
1	Clinker for cement manufacture in the industry	1.964 Million TPA
	Clinker for export to other units	1.221 Million TPA
	Total clinker	3.185 Million TPA
2	Cement	3.65 Million TPA
3	Electricity	42 MW

After expansion:

S. No.	Products and By-products	Quantity
1	Clinker for cement manufacture in the industry	1.964 Million TPA
	Clinker for export to other units	2.721 Million TPA
	Total clinker	4.685 Million TPA
2	Cement	3.65 Million TPA
3	Captive Thermal Power Generation	24 MW (Down sizing)
4	Waste Heat Recovery Power Generation	27 MW
5	DG set power generation	4 MW

2. As per the application, the above activity is to be located within existing premises at KSR Nagar, Jaggaiahpet Mandal, Krishna District.

3. The above site was inspected by the Asst. Environmental engineer-II, Regional Office, Vijayawada, A.P Pollution Control Board on 25.09.2019 and found that the site is surrounded by the following:

North : Agriculture lands followed by Railway track
South : Agriculture lands followed by Jayanthipuram village
East : Dharmavarapupadu Thanda
West : Jayanthipuram Limestone Mine (North Band)

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** to the project 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 the 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 period of 7 years from the date of issue.**

Encl: Annexure.

**VIVEK YADAV IAS, MS(VY), O/o MEMBER SECRETARY-APPCB
MEMBER SECRETARY**

To

**The Ramco Cements Limited (expn)
Kumarasamy Raja Nagar,
Jaggaiahpet (M),
Krishna Dist. – 521457.
mcljpm@ramcocements.co.in**

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

ANNEXURE

1. 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.
2. The proponent shall ensure that separate energy meters are connected to Air pollution Control equipments to record energy consumed. An alternative electric power source sufficient to operate all pollution control systems shall be provided.
3. The industry shall construct separate storm water drains and provide rain water harvesting structures. No effluents shall be discharged in to the storm water drains.

Water:

4. The source of water is Mine seepage water from captive limestone mines. The maximum permitted water consumption is as following after expansion: (as per Ir.dt.10.10.2019):

S. No.	Purpose	As per CFE expansion order dt. 24.10.2016 (KLD)	Proposed after expansion (KLD)
1	Boiler feed, cooling make up, UF & RO and DM Plant	5980.0	4530.0
2	Domestic	710.0	722.0
	Total	6690.0	5252.0

Separate meters with necessary pipe-line shall be provided for assessing the quantity of water used for each of the purposes mentioned above.

5. The maximum waste water generation shall not exceed the following after expansion (as per Ir dt. 10.10.2019):

S. No.	Source	As per CFE expansion order dt. 24.10.2016 (KLD)	Proposed after expansion (KLD)
1	Boiler blow down, cooling blow down, UF & RO rejects & DM Plant	1439.0	990.0
2	Domestic effluents	660.0	670.0
	Total	2099.0	1660.0

Treatment & Disposal:

Sl. No.	Effluent source	Treatment	Mode of final disposal
1.	Boiler blow down, Cooling bleed of, RO & DM plant rejects	Neutralization	Used for greenbelt development and dust suppression.
2.	Domestic	STP Of 700	The treated water is being

		KLD	used for greenbelt development
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6. Under no circumstances the waste water shall be discharged outside the factory premises.

Air:

7. The industry shall comply with the following to control air pollution after expansion:

Existing: As per CFE Expansion order dt.24.10.2016:

S. No.	Source of Pollution	Control equipment provided	Stack height in m - above GL
1.	Limestone Crusher	Bag Filter	30 m
2.	Kiln –I	Bag House	100 m
3.	Cooler – I	ESP	30 m
4.	Coal Mill –I	Bag House	30 m
5.	Cement Mill	Bag House	42 m
6.	Cement Mill(Separator)	Bag Filter	42 m
7.	Slag Mill	Bag House	47 m
8.	Kiln –II	RABH	130 m
9.	Cooler – II	ESP	40 m
10.	Coal Mill –II	Bag House	45 m
11.	Thermal Power Plant (36 MW) for which 2x76TPH AFBC boilers	ESP with 3 Fields	95 m
12.	DG set of capacity 4 MW	Acoustic enclosure	30 m
	Details of Fugitive emissions and Control equipment		
1.	Lime stone conveyors	Bag filters	
2.	Additive conveyors.	Bag filters	
3.	Coal conveyors.	Bag filters	
4.	Clinker conveyors	Bag filters	
5.	Raw Mill Hoppers	Water Fogging System	----

Proposed for expansion:

SI.No.	Details of Stack	Stack No.1	Stack No.2	Stack No.3
a)	Attached to	Coal mill - III	Kiln – III	Cooler - III
b)	Capacity	45 TPH	4350 TPD	4350 TPD
c)	Stack height above ground (m.)	10 m	10 m	55 m
d)	Air Pollution Control Equipment	Bag filter	Bag filter	ESP

Emissions from the Bag filters shall be below 20 mg/Nm³ as mentioned in the EAC, New Delhi in its meeting held on 24-25 September, 2019.

8. No additional stacks shall be installed for Waste Heat Recovery Power Plant. The Hot gases from the pre-heaters are utilized in the Pre heater boilers (04 No). The hot gases from coolers are utilized in the Air quenching boilers (01 No) at clinker cooler side. Electricity is generated. After recovery of heat in these boilers, the flue gases are then finally let out through APCE (RABH for raw mill/kiln, ESP for clinker cooler) provided to the Raw mill / Kiln and Cooler stacks respectively. Details are as follows:

Clinkerisation Line	No. of Boilers
Line I	2 PH boiler + 1 AQC Boiler
Line II	1 PH Boiler + 1 AQC Boiler
Line III	1 PH Boiler + 1 AQC Boiler
Total	7 Nos. (4 PH Boilers +3 AQC Boilers)

9. The industry shall not store raw materials in open area.
10. The Bag filters shall be designed such that 25% of additional capacity is available as spare to meet the emergency requirements.
11. The industry shall provide concrete roads in the plant to avoid the fugitive dust emissions. Vacuum / pneumatic dust collection system shall be used for cleaning the internal roads.
12. The proponent shall provide online stack monitoring facility for all the major stacks and the data generated shall be networked with APPCB and CPCB for web display.
13. 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.
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 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 in case the air pollution control equipments fails.
16. 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 / Hazardous Waste:

17. The proponent shall comply with the following after expansion:

S.No.	Solid / Hazardous waste	Quantity	Method of disposal
1	Boiler Ash	172.8 TPD	Shall be used in cement manufacturing

2	Waste oil	500 LPA	Shall be used in Kiln for co-processing
3	Used lead acid batteries	200 Nos./annum	To authorized dealers on buy back basis.
4	STP sludge	10 TPA	Shall be used as manure after composting.

18. The following rules and regulations notified by the MoEF&CC, GoI shall be implemented.

- a) Regulation of Persistent Organic Pollutants Rules, 2018.
- b) Hazardous waste and other wastes (Management and Transboundary Movement) Rules, 2016.
- c) Plastic Waste Management Rules, 2016.
- d) Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989
- e) Fly Ash Notification, 2016.
- f) Batteries (Management & Handling) Rules, 2010.
- g) E-Waste (Management) Rules, 2016.
- h) Construction and Demolition waste Management Rules, 2016.
- i) Solid Waste Management Rules, 2016.
- j) The Public Liability Insurance Act, 1991 and its amendments thereof.

Other Conditions:

19. **The proponent shall start construction of expansion activities only after obtaining EC.**
20. The overall 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.
21. 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.
22. Concealing the factual data or submission of false information / 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.
23. 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.

24. 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.

**VIVEK YADAV IAS, MS(VY), O/o MEMBER SECRETARY-APPCB
MEMBER SECRETARY
To**

**The Ramco Cements Limited (expn)
Kumarasamy Raja Nagar,
Jaggiahpet (M),
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mcljpm@ramcocements.co.in**

Signature Not Verified

Digitally signed by VIVEK
YADAV
Date: 2019.10.17 18:20:57 IST
Reason: Approved

