

**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.pcb.ap.gov.in

CONSENT ORDER FOR ESTABLISHMENT**Order No.284 /APPCB/CFE/RO-VJA/HO/2009****19/05/2022**

Sub:APPCB – CFE – **Ravirala Lime Stone Mine (RF), M/s. The Ramco Cements Limited (60.72 Ha.), Sy.No. 124(P), Compartment No.387, Ravirala (V), Jaggayyapet (M), Krishna District - Consent for Establishment (CFE) for expansion for Lime Stone Mine** 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. EC Order dt.05.03.2022 issued by SEIAA, AP.
 2. Industry's CFE (exp) application received through APOCMMS on 11.03.2022.
 3. R.O's inspection report dt.25.03.2022.
 4. T.O. Ir. dt.12.04.2022.
 5. Industry's Ir. dt. 19.04.2022.
 6. CFE Committee meeting held on 28.04.2022.

1. In the reference 2nd cited, an application was submitted to the Board seeking Consent for Establishment (**CFE**) for **expansion mining of Lime Stone** (open cast semi-mechanized) as following, with an additional investment of Rs.4.5Crores.

S. No.	Name of the Products	As per Combined CFO order dt. 04.01.2022	As per EC order Expansion dt.05.03.2022	Total quantity after CFE expansion
1	Ravirala Lime Stone Mine (RF)	1.2 Million TPA	1.20 Million TPA to 2.75 Million TPA (1.55 Million TPA)	2.75 Million TPA
2	Jayanthipuram Limestone Mine (North Band)	1.8 Million TPA		
3	Jayanthipuram Limestone Mine (South Band)	1.75 Million TPA	--	
4	Ramco Budawada Limestone Mine	1.1 Million TPA	--	

2. As per the application, the above activity is to be located within existing premises at Sy. No. 124(P), Compartment No.387, Ravirala (V), Jaggayyapet (M), Krishna District, in an additional mine lease area of 60.72 ha.

3. The above site was inspected by the Environmental Engineer, Regional Office, Vijayawada, A.P Pollution Control Board on 23.03.2022 and found that the site is surrounded by the following:

North : Open land

South : Hill

East : Mining Lease of M/s. Hemadri Cements

West : Approach road to the mine & Vedadri road

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 Limestone mine** 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.

KANDAVALLI VENKATESWARA RAO, CEE(KVR), O/o CHIEF ENVIRONMENTAL ENGINEER-APPCB

To

M/s.The Ramco Cements Limited (60.72 Ha.) (Expn),

Ravirala Limestone Mine (RF),

Sy. No.124(P), Compartment No.387,

Ravirala (V), Jaggayyapet (M),

Krishna District.

Email: 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 (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 water (rain water collected in the mine pit). The details of water requirement are as follows:

S. No.	Purpose	As per CFO order for 4 mining leases dt. 04.01.2022 in (KLD)	As per CFE Expn. appn for production capacity of 1.55 MTPA Ravilala limestone mine (KLD)	Total after CFE expansion (KLD)
a.	Water sprinkling on haul roads / dust suppression	438.0	80.0	518.0
b.	Development of greenbelt	105.0	2.0	107.0
c.	Domestic	9.5	8.0	17.5
	Total	552.5 (Including existing mine water consumption of 90.0 KLD)	90.0	642.5 (Including existing mine water consumption of 90.0 KLD)

*The industry shall obtain necessary amendment to the EC order dt.05.03.2022 regarding source of water.

3. The maximum waste water generation shall not exceed the following:

S. No.	Source	As per CFO order for 4 mining leases dt.04.01.2022 (KLD)	As per CFE Expn. appn for production capacity of 1.55 MTPA Ravilala limestone mine (KLD)	Total after CFE expansion (KLD)
a.	Dust Suppression	10.0	--	10.0

	& Vehicle washing			
b.	Domestic	8.6	6.4	15.0
	Total	18.6	6.4	25

Treatment & Disposal:

Source of effluent	Mode of final disposal
Domestic	Septic tank followed by soak pit

4. The industry shall ensure that no natural water course shall be obstructed due to any mining operations.
5. Catch drains and siltation ponds of appropriate size shall be constructed for the working pit, inter burden and mineral dumps to arrest flow of silt and sediment. The water so collected should be utilized for watering the mine area, roads, greenbelt development, etc. The drains shall be regularly desilted, particularly after monsoon and maintained properly. The water collected shall be utilized for watering the mine area, roads, green belt development etc
6. Garland drain of appropriate size, gradient and length shall be constructed for both mine pit and inter burden dumps. Sump capacity with adequate retention period to allow proper settling of silt material should also be provided. Sedimentation pits should be constructed at the corners of the garland drains and desilted at regular intervals.
7. The proponent has to provide a trench for storm water draining from the mine lease area to aid in preventing the sedimentation of silt and avoid siltation at the discharge end of check dams.
8. The project proponent shall take appropriate mitigative measures to prevent pollution of nearby River and other surface water body.

Air:

9. The proponent shall comply with the following for controlling fugitive emissions.
 - Water shall be sprinkled at regular intervals on the main haul roads leading to the mines to mitigate dust emissions.
 - To control dust from drilling operations, drilling with dust collectors/wet drilling shall be practiced. Also drill speeds shall be regulated as per manufacturer's guidelines.
 - Overloading of transport equipment shall be prevented in order to stop spillage.
10. The proponent shall comply with the following for controlling noise emissions.
 - Machinery shall be properly maintained to prevent undesirable noise. Attention shall be paid towards rigorous maintenance of the silencers of diesel engines.
 - Blasting operations shall not be carried out at night.
 - The drilling shall be done with sharp drill bits to reduce generation of noise during drilling.

- Controlled sequential blasting with optimum charge per hole shall be practiced to reduce generation of noise.
 - Hydraulic rock breaker shall be used in lieu of secondary blasting.
 - Drill machine operators and dumper drivers shall be equipped with earplugs and earmuffs. The duty hours of operators working near the machinery shall be regulated to keep their noise exposure levels within limits.
 - Periodical monitoring of noise level of mining machines and at some locations in the mining site shall be done with the help of noise level meter.
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. Ambient air quality monitoring stations shall be provided in core and buffer zone in down windward direction in consultation with concerned Regional Officer of APPCB for monitoring of PM_{2.5}, PM₁₀, SO₂, NO_x. The consolidated report of the same shall be submitted.
13. Sequential blasting and use of non-electric delay detonators shall be adopted to reduce ground vibrations.
14. 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. The waste oil shall be used for lubrication in the earthmoving equipment.

Solid Waste:

The proponent shall comply with the following:

S. No.	Name of the hazardous waste	Quantity of waste		Disposal Option
		Existing for 4 mining leases	Expansion	
1	Waste Oil	8260 LPA	2000 LPA	Disposed to authorized recyclers / reprocessors through M/s. APEMC/ for kiln firing in cement plant.

S. No.	Name of the solid waste	Quantity of waste		Disposal Option
		Existing for 4 mining leases	Expansion	
1	Over Burden	3.593156 MTPA	0.249 MTPA	Shall be used for reclamation and dumping.

16. Top Soil, if any, shall be stacked with adequate measures with proper slope at earmarked site (s) only and shall be used for reclamation / plantation and rehabilitation of mined out areas.

17. The following measures are to be adopted to control erosion of dumps:-
 - Retention/toe walls shall be provided at the foot of the dumps.
 - Worked out slopes are to be stabilized by planting appropriate shrub/grass species on the slopes.
 - Regulatory Authority prior concurrence shall be taken for this activity.
18. The following rules and regulations notified by the MoE&F, 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 project proponent shall maintain the setback distance 7.5 meters buffer zone all around the mine lease area for greenbelt development and other conditions are to be fulfilled as stipulated in the EC order dt.05.03.2022.**
20. **The avenue plantation (tall plants), of at least 1.5 m height, for 1 km length of the approach road on either side of the road is to be developed and maintained. The entire plantation is to be completed in the first year itself as stipulated in the EC order dt.05.03.2022.**
21. The proponent shall comply with all the conditions stipulated in the EC order dt.05.03.2022. The industry shall obtain necessary amendment to the EC order with respect to water consumption.
22. The proponent shall obtain necessary clearances from all the competent authorities.
23. The proponent shall obtain Consent For Operation from the APPCB before the commencement of mining activity. This shall be strictly adhered to without fail.
24. The proponent shall explore the possibility to convert mined area into a reservoir by plugging the leakages.
25. The proponent shall carryout studies on ground vibrations due to blasting activities. Based on the reports of every blast, the blasting parameters shall be modified if necessary with approval of concerned department.
26. 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.
27. **The industry shall submit compliance to the conditions stipulated in the EC and CFE orders to the concerned Regional Officer of APPCB every six months and shall upload the same at APPCB website viz.,**

https://pcb.ap.gov.in/UI/Submission_Compliance_of_EC_CFE_CFO_Direction.aspx

28. The proponent shall comply with all the directions issued by the Board from time to time.
29. Concealing the factual data or submission of false information / fabricated data and failure to comply with any of the conditions mentioned in this order may result in withdrawal of this order and attracts action under the provisions of relevant pollution control Acts.
30. 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.
31. 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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