



ANDHRA PRADESH POLLUTION CONTROL BOARD
D. No. 33-26-14 D/2, Near Sunrise Hospital, Pushpa Hotel Centre,
Chalamalavari Street, Kasturibaipet, Vijayawada - 520010
Website: www.appcb.ap.nic.in

**RED CATEGORY
CONSENT & AUTHORIZATION ORDER**

Consent Order No: APPCB/KNL/ATP/97/HO/CFO/2019-

19/08/2019

CONSENT is hereby granted for Operation under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of Air (Prevention & Control of Pollution) Act 1981 and amendments thereof and Authorisation under Rule 6 of the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016 & Amendments thereof and the rules and orders made there under (hereinafter referred to as 'the Acts', 'the Rules') to:

**M/s. Penna Cement Industries Ltd. (Plant), (Existing & Expansion)
Nittur (V) & Kamalapadu (V), Yadiki (M),
Anantapur District - 515 408, A.P.
e-mail: boyareddypalli@pennacement.com**

(Hereinafter referred to as 'the Applicant') authorizing to operate the industrial plant to discharge the effluents from the outlets and the quantity of emissions per hour from the chimneys as detailed below:

The industry shall handover the following original Consents to the RO: Anantapur after receipt of this order and shall note that the same stands cancelled on issue of this order:

1. Consent Order No. APPCB/KNL/ATP/97/HO/CFO/2015-, dated 22.04.2015 and its Auto Renewal order dated 20.12.2017 having validity upto 28.02.2023.
2. Consent Order No. APPCB/KNL/ATP/97/HO/CFO/2019-, dated 07.10.2016 having validity upto 31.08.2021.
3. Consent Amendment Order No. APPCB/KNL/ATP/97/HO/CFO/2019-, dated 27.03.2019 regarding permission for usage of pet coke as a feed stock or in the manufacturing process in the cement kiln.

i. Outlets for discharge of effluents:

Outlet No.	Outlet Description	Max Daily Discharge	Point of Disposal
1	Cooling tower bleed off	23 KLD	After neutralization, the DM regeneration shall be reused after mixing with cooling tower blow down.
2	DM plant regeneration	99 KLD	
3	Domestic (plant and colony)	184 KLD	After treatment, the treated domestic waste water shall be used for dust suppression and for greenbelt development.
	Total	306 KLD	

ii) Emissions from chimneys:

Chimney No.	Description of Chimney
Unit - I	
1	Attached to Rotary Mill / Kiln of capacity 9120 TPD
2	Attached to Kiln feeding system of capacity 4546 TPD
3	Attached to Clinker Cooler of capacity 4546 TPD
4	Attached to Coal Mill of capacity 900 TPD
5	Attached to Cement Mill of capacity 4800 TPD
6	Attached to Slag grinding mill of capacity 2040 TPD
7	Attached to D.G set of capacity 1250 KVA

Unit - II	
8	Attached to Rotary Mill / Kiln of capacity 6500 TPD
9	Attached to Clinker Cooler of capacity 6500 TPD
10	Attached to Coal Mill of capacity 45 TPH
11	Attached to Cement Mill - 1 of capacity 8000 TPD
12	Attached to Cement Mill - 2 of capacity 8000 TPD
13	Attached to Lime stone crusher of capacity 1250 TPD

iii) Hazardous Waste Authorisation (Form – II) [See Rule 6 (2)]:

M/s. Penna Cement Industries Ltd. (Plant), Anantapur District is hereby granted an authorization to operate a facility for collection, reception, storage, treatment, transport and disposal of Hazardous Wastes namely:

• **Hazardous Wastes With Disposal Option:**

S. No	Name of Hazardous Waste	Stream	Quantity	Method of disposal
1.	Ball mill (Hi-chrome Balls / scrap)	--	20 TPA	To authorized parties / returned to the manufacturers / recyclers.
2.	Waste Grease & Lube oil	5.1 of Schedule-I	15 TPA	Shall burnt in the kiln along with the fuel.
3.	Lead Acid Batteries	--	200 Nos./annum	To buyers on buy back policy

This consent order is valid for the following products along with quantities indicated only:

S. No	Product	Quantity		
		Unit - I	Unit - II	Total
1.	Clinker	1.65 Million TPA	2.35 Million TPA	4.00 Million TPA
2.	Cement	2.0 Million TPA (OPC/PPC/PSC)	2.6 Million TPA (OPC/PPC/PSC)	4.6 Million TPA (OPC/PPC/PSC)
3.	WHRB	10 MW	15 MW	25 MW

This order is subject to the provisions of 'the Acts' and the Rules' and orders made thereunder

and further subject to the terms and conditions incorporated in the schedule A, B & C enclosed to this order.

This Combined order of Consent & Hazardous Waste Authorization shall be valid for a period ending with the **31.07.2022**.

BANDLA SIVA SANKARA PRASAD, CHAIRMAN, O/o CHAIRMAN-APPCB

To

**M/s. Penna Cement Industries Ltd. (Plant),
Nittur (V) & Kamalapadu (V), Yadiki (M),
Anantapur District - 515 408, A.P.**

Copy to:

1. The JCEE, **ZO: Kurnool** for information.
2. The EE, **RO: Anantapur** for information and necessary action.

SCHEDULE-A

1. Any up-set condition in any industrial plant / activity of the industry, which result in, increased effluent / emission discharge and violation of standards stipulated in this order shall be informed to this Board for taking immediate action to bring down the discharge / emission below the limits and the same may be intimated to the Collector and District Magistrate.
2. The industry shall carryout analysis of waste water discharges or emissions through chimneys for the parameters mentioned in this order on quarterly basis and submit to the Board. (Only for red category.)
3. All the rules & regulations notified by Ministry of Law and Justice, Government of India regarding Public Liability Insurance Act, 1991 should be followed as applicable.
4. The industry shall put up two sign boards (6x4 ft. each) at publicly visible places at the main gate indicating the products, effluent discharge standards, air emission standards, hazardous waste quantities and validity of CFO and exhibit the CFO order at a prominent place in the factory premises.
5. Notwithstanding anything contained in this consent order, the Board hereby reserves the right and powers to review / revoke any and/or all the conditions imposed herein above and to make such variations as deemed fit for the purpose of the Acts by the Board.
6. The applicant shall submit Environment statement in Form V before 30th September every year as per Rule No.14 of E (P) Rules, 1986 & amendments thereof.
7. The applicant shall make applications through Online for renewal of Consent (under Water and Air Acts) and Authorization under HWM Rules at least 120 days before the date of expiry of this order, along with prescribed fee under Water and Air Acts and detailed compliance of CFO conditions for obtaining Consent & HW Authorization of the Board. The industry should immediately submit the revised application for consent to this Board in the event of any change in the raw material used, processes employed, quantity of trade effluents & quantity of emissions. Any change in the management shall be informed to the Board. The person authorized shall not let out the premises / lend / sell / transfer their industrial premises without obtaining prior permission of the

State Pollution Control Board.

8. 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 Appellate authority constituted under Section 28 of the Water(Prevention and Control of Pollution) Act, 1974 and Section 31 of the Air(Prevention and Control of Pollution) Act, 1981.

SCHEDULE-B

1. The industry is permitted to use Pet Coke - 0.4 Million TPA as a feed stock or in the manufacturing process in the cement kiln.
2. The industry shall furnish opening and closing stock of Pet Coke along with quantity of Pet Coke consumption during the month to the Board on quarterly basis.

Water:

3. The source of water is Mine pit / bore well. The following is the permitted water consumption:

S. No	Purpose	Quantity
1	Process	800 KLD
2	Industrial Cooling (Makeup) / Humidification / Water spraying)	543 KLD
3	Softener/DM plant/RO plant	37 KLD
4	Domestic	230 KLD
	Total	1610 KLD

4. Separate meters with necessary pipe-line shall be maintained for assessing the quantity of water used for each of the purposes mentioned above.
5. The effluent discharged should not contain constituents in excess of the tolerance limits mentioned below :

Outlet No.	Parameter No.	Limiting Standards
3	pH	5.5 – 9.0
	Suspended Solids	200 mg/l
	Oil and Grease	10 mg/l
	BOD	20 mg/l

6. Under no circumstances the waste water shall be discharged outside the factory premises. The zero discharge shall be implemented.
7. 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.

Air:

8. 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.
9. The industry shall maintain 25% additional capacity of Bag filters and ESPs.
10. The emissions should not contain constituents in excess of the prescribed limits mentioned below:

Chimney No.	Parameter	Emission Standards
1 to 6	Particulate Matter (PM) *	30 mg/Nm ³
	SO ₂	100,700 and 1000 when Pyritic Sulphur in the limestone is less than 0.25%, 0.25 to 0.5% and more than 0.5% respectively.
	NO _x	1. 800 for rotary kiln with In Line Calciner (ILC) Technology 2. 1000 for rotary kiln using mixed stream of ILC, Separate Line Calciner (SLC) and suspension pre-heater technology or SLC technology alone or without Calciner.
8 to 13	Particulate Matter (PM) *	30 mg/Nm ³
	SO ₂	100,700 and 1000 when Pyritic Sulphur in the limestone is less than 0.25%, 0.25 to 0.5% and more than 0.5% respectively.
	NO _x	600 mg/Nm ³

* Particulate Matter from raw mill, kiln and pre-calciner system put together shall not exceed 0.125 Kg/tonne of clinker.

11.The industry shall comply with standards as notified by the MoEF&CC, GoI vide G.S.R. No. 612 (E), dated 25.08.2014 and G.S.R. No. 496 (E), dated 09.05.2016.

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 in case the air pollution control equipments fails.

13.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.

14.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.

15.The industry shall provide continuous stack emission monitoring system for all the major stacks and the data generated shall be networked with APPCB and CPCB for web display as per CPCB directions.

16.The industry shall comply with ambient air quality standards of PM10 (Particulate Matter size less than 10mm) - 100 mg/ m³; PM2.5 (Particulate Matter size less than 2.5 mm) - 60 mg/ m³; SO₂ - 80 mg/ m³; NO_x - 80 mg/m³, outside the factory premises at the periphery of the industry.

Standards for other parameters as mentioned in the National Ambient Air Quality Standards CPCB Notification No.B-29016/20/90/PCI-I, dated 18.11.2009.

Noise Levels: Day time (6 AM to 10 PM) - 75 dB (A)

Night time (10 PM to 6 AM) - 70 dB (A)

17.The industry shall comply with emission limits for DG sets of capacity upto 800 KW as per the Notification G.S.R.520 (E), dated 01.07.2003 under the Environment (Protection) Amendment Rules, 2003 and G.S.R.448(E), dated 12.07.2004 under the Environment (Protection) Second Amendment Rules, 2004. In case of DG sets of capacity more than 800 KW shall comply with emission limits as per the Notification G.S.R.489 (E), dated 09.07.2002 at serial no.96, under the Environment (Protection) Act, 1986.

Solid Waste:

18.The industry shall dispose solid waste (Non Hazardous) as follows:

S. No	Name of the Solid Waste	Quantity	Disposal
1.	STP sludge	16 TPA	Used as a manure in the premises.
2.	Process (Dust from Bag filters & ESP)	2200 TPD	Reused in the process.

19.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.

General:

20.The industry shall maintain RWH structure on the available up-stream portion of the plant site.

21.The industry shall not stack the raw materials in open place. All the raw materials shall be stored in the sheds.

22.The industry shall procure another sweeping machine in addition to existing two sweeping machines for regular cleening of the internal roads within 3 months.

23.The industry shall maintain the following records and the same shall be made available to the inspecting officers of the Board:

- Daily production details.
- Quantity of Effluents generated, treated, recycled/reused and disposed.
- Log Books for pollution control systems.
- Characteristics of ambient air, effluents and emissions.
- Hazardous/non hazardous solid waste generated and disposed.
- Inspection book.
- Manifest copies of hazardous waste.

24.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 so that the total area of the greenbelt shall not be less than 33% of the total project area.

25.The industry shall comply with standards and directions issued by CPCB / MoEF&CC as and when notifications are issued.

26.The industry shall submit compliance report on the conditions mentioned in the consent order every six months i.e., on 1st of January and July of every year to the Regional Office/ Zonal Office, failing which action will be initiated against industry.

SCHEDULE – C

[See rule 6 (2)]

**[CONDITIONS OF AUTHORISATION FOR OCCUPIER OR OPERATOR
HANDLING HAZARDOUS WASTES]**

- The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
- The authorisation shall be produced for inspection at the request of an officer authorised by the State Pollution Control Board.
- The person authorised shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorisation.
- Any unauthorised change in personnel, equipment or working conditions as mentioned

in the application by the person authorised shall constitute a breach of his authorisation.

5. The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time;
6. The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on “Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty”.
7. It is the duty of the authorised person to take prior permission of the State Pollution Control Board to close down the facility.
8. The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilisation of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorisation.
9. An application for the renewal of an authorisation shall be made as laid down under these Rules.
10. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.
11. Annual return shall be filed by June 30th for the period ensuring 31st March of the year.
12. The industry shall not store hazardous waste for more than 90 days as per the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016.
13. The industry shall store Used / Waste Oil and Used Lead Acid Batteries in a secured way in their premises till its disposal to the manufacturers / dealers on buyback basis.
14. The industry shall maintain 7 copy manifest system for transportation of waste generated and a copy shall be submitted to concerned Regional Office of APPCB. The driver who transports Hazardous Waste should be well acquainted about the procedure to be followed in case of an emergency during transit. The transporter should carry a Transport Emergency (TREM) Card.

BANDLA SIVA SANKARA PRASAD, CHAIRMAN, O/o CHAIRMAN-APPCB

To

**M/s. Penna Cement Industries Ltd. (Plant),
Nittur (V) & Kamalapadu (V), Yadiki (M),
Anantapur District - 515 408, A.P.**