



RENEWAL OF CONSENT & AUTHORISATION ORDER

Consent Order No : TSPCB/RCP/NLG/CF0 & HWA/HO/2018-3432 -Date: 18.01.2018

Consent Order for Existing/New or altered discharge of sewage and/or trade effluents/outlet under Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and amendments thereof, Operation of the plant under section 21 of Air (Prevention & Control of Pollution) Act 1981 and Amendments thereof and Authorization / Renewal of Authorization under Rule 6 of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 & Amendments thereof.

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

**M/s. Penna Cement Industries Ltd.,
(Cement Plant & Captive Power using Waste Heat Gases),
Ganeshpahad Village,
Damercherla Mandal,
Nalgonda District – 508355.
E mail: ganeshpahad@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.

i) Outlets for discharge of effluents:

ii) Emissions from Chimneys:

Chimney No.	Description of Chimney	Quantity of Emissions in m ³ /hr. at peak flow
1.	Attached to 3000 TPD Horizontal Rotary Kiln / Raw Mill	--
2.	Attached to Cooler	--
3.	Attached to Coal Mill	--
4.	Attached to Cement Mill	--
5.	Attached to LS Crusher	--
6.	Attached to Packing Plant	--
7.	Attached to 1500 KVA D.G. Set	--

iii)

HAZARDOUS WASTE AUTHORISATION (FORM - II) [See Rule 6 (2)] of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 & Amendments thereof:

1. Number of Authorization and date of issue - TSPCB/RCP/NLG/CFO&HWA/HO/2018
Date: 18.01.2018.

2. Reference of Application: Reference Nos. 1076984 & 1081199 dt.09.12.2017.

3. M/s. Penna Cement Industries Ltd., (Cement Plant & Captive Power using Waste Heat Gases), Ganeshpahad Village, Damercherla Mandal, Nalgonda 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 RECYCLING OPTION:**

S. No	Name of the Hazardous waste	Stream	Quantity of Hazardous waste	Disposal Option.
1.	Waste oil	5.1 of Schedule - I	4.65 KLPA.	Authorised Reprocessors/ Recyclers.
2.	Hydraulic oils	5.1 of Schedule - I	4.3 KLPA.	
3.	Waste grease	5.2 of Schedule - I	4.5 TPA	

This consent order is valid for manufacture the following products along with quantities only.

S. No.	Products	Quantity
1.	Ordinary Portland Cement*	2800 TPD
2.	Portland Pozzolona Cement*	600 TPD
3.	Captive Power (using Waste Heat Gases from Pre-Heater & Air Quenching Cooler)	7.0 MW

*- The Cement Production is inclusive of 3000 TPD of Clinker production.

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 Authorisation shall be valid for a period ending with the 31st day of December, 2022.

Sd/-
MEMBER SECRETARY

To
M/s. Penna Cement Industries Ltd.,
(Cement Plant & Captive Power using Waste Heat Gases),
Ganeshpahad Village,
Damercherla Mandal,
Nalgonda District

// T.C.F.B.O//

B. P. Rao
Joint Chief Environmental Engineer

SCHEDULE - A

1. 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 for obtaining Consent & HW Authorization of the Board. The applicant can also apply for Auto Renewal of the CFO atleast 30 days before the expiry of the Order as per the procedure and eligibility stipulated in the Board Circulars dt:19.11.2015, 08.12.2015 and Amendment to the guidelines of Auto Renewal vide Circular Memo dt: 11.09.2017 (available in Board's Website: <http://tspcb.cgg.gov.in/Pages/circulars.aspx>).
2. 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 attract action under the provisions of relevant pollution control Acts.
3. 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 Water Rules, 1976 and Air Rules 1982, to such authority (hereinafter referred to as the 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.
4. The industry may explore the possibility of tapping the solar energy for their energy requirements.
5. All the conditions stipulated in the Schedule - A of the earlier combined CFO & HWA Order TSPCB/RCP/NLG/10070/HO/CFO/2015-1073 Date: 02.03.2015; TSPCB/RCP/NLG/HO/CFO/2016-1203 Date: 04.08.2016 and Amendment Order No. TSPCB/RCP/HO/CFO/2017-3091 dt: 14.02.2017 remains same. The industry should ensure consistence compliance of each condition of Schedule-A.
6. The Board reserves its right to modify above conditions or stipulate any further conditions and to take action including revoke of this order in the interest of protection of public health and environment.

SCHEDULE - B

Special Conditions:

1. The effluent discharged shall comply with the tolerance limits mentioned below:

(a)

Outlet	Parameter	Limiting Standards
1 & 2	pH	6.5 – 8.5
	Total Suspended Solids	100 mg/l
	Oil and Grease	10 mg/l
	Biochemical Oxygen Demand (3 days at 27° C)	100 mg/l
	Chemical Oxygen Demand	250 mg/l
	Total Dissolved Solids (TDS)	2100 mg/l
	Temperature	Not more than 5°C higher than the intake water temperature

b. Service waste water (without co-processing)

All efforts shall be made by the industry for 'Zero discharge' of service wastewater. In case, the industry prefers to discharge service wastewater, the following norms shall be complied with:

Parameter	Concentration not to exceed, milligram per litre (expect pH and temperature)
pH	5.5 to 9.0
Suspended Solids	100
Oil & Grease	10
Temperature	Not more than 5°C higher than the intake water temperature

c- Storm Water

- (I) Storm-water shall not be allowed to mix with effluent, treated sewage, scrubber water and/ or floor washings.
- (II) Storm water within battery limits of industry shall be channelized through separate drain(s) as per natural gradient passing through high density polyethylene lined pit(s) each having holding capacity of 10 minutes (hourly average) or rainfall for its catchment area.”

2. The industry shall take steps to reduce water consumption to the extent possible and consumption shall NOT exceed the quantities mentioned below:

S. No	Purpose	Quantity
	Cement Plant	
1.	Process & Washings	25 KLD
2.	Cooling	100 KLD
3	Domestic	50 KLD
4	Gardening	50 KLD
	Captive Power using Waste Heat Gases	
	Boiler feed & Cooling makeup	1680 KLD
	Total :	1905 KLD

3. The emissions shall not contain constituents in excess of the prescribed limits mentioned below:

Chimney Nos.	Parameter	Emission Standards (mg/Nm³)
1 to 6	Particulate Matter	30 mg/Nm³
1	Sulphur Dioxide (SO ₂)	100 mg/Nm³.
	Oxides of Nitrogen (NO _x)	800 mg/Nm³ for Rotary Kiln with in Line Calciner (ILC) Technology.

- (a) The height of each stack including Clinker Grinding Plant, Coal Mill, Raw Mill, Grinding, Packaging Section, etc, shall be of a minimum of 30 meters or, as per formula $H=14(Q)^{0.3}$, whichever is more, where “H” is the height of stack in meters and “Q” is the maximum quantity of SO2 expected to be emitted in Kg/hr through the stack at 100 per cent rated capacity of the plant and calculated as per the norms of gaseous emission.
- (b) Above norms shall be applicable even if pet-coke is mixed with Coal or, used alone for Clinker making in Kiln provided, Pet-coke has been notified as ‘approved fuel’ by the concerned State Pollution Control Board under the Air (Prevention and Control of Pollution) Act, 1981.
- (c) All monitored values for SO₂ and NO_x shall be corrected to 10% Oxygen, on dry basis. The norms for SO₂ and NO_x shall be applicable to stacks attached to Kiln.
- (d) Scrubber meant for scrubbing emission shall not be used as quencher. Plants having separate stack for gaseous emission for the scrubbing unit, the height of this stack shall be atleast equal to the main stack.

Load / Mass based Standard: Particulate matter from Raw Mill, Kiln and Pre-Calcliner system put together - 0.125 Kg / tonne of Clinker.

4. 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.
5. The industry shall comply with ambient air quality standards of PM_{10} (Particulate Matter size less than $10\mu m$) - $100\ \mu g/m^3$; $PM_{2.5}$ (Particulate Matter size less than $2.5\ \mu m$) - $60\ \mu g/m^3$; SO_2 - $80\ \mu g/m^3$; NO_x - $80\ \mu g/m^3$, NH_3 - $400\ \mu g/m^3$ 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).

6. The industry shall manufacture only the consented products.
7. The industry shall not increase the capacity beyond the permitted capacity, without obtaining CFE & CFO of the Board.
8. The industry shall comply with the standards stipulated by the Govt. of India under Environment (Protection) Rules, framed under the E(P) Act, 1986.
9. The industry shall operate the Air Pollution Control Equipment i.e., RABH, Bag filters, ESPs, Dust Collectors etc., continuously, so as to meet the new emission Standards for all the stacks.
10. The industry shall maintain the Online Continuous Stack Emission Monitoring system (OCSEMS) with data recorder facility for the stacks of Kiln, Cooler and other major stacks of Cement Plant, with connection of the same to the website of CPCB & TSPCB.
11. The industry shall maintain Bag filters at all Silo tops, material transfer points and at various other sources of fugitive emissions.
12. The industry shall maintain the records on captive consumption of Clinker produced, Fly Ash utilization, Cement Production etc. and the consolidated records shall be furnished to the EE, TSPCB, R.O, Nalgonda for every three months.
13. The industry shall submit details of ESP trippings to the Regional Office of the Board for every three months.
14. The industry shall provide adequate dust collection and extraction system to control fugitive emissions at various transfer points and the dust collected from pollution control equipments shall be recycled back into the process.
15. The industry shall install & maintain interlocking facility between APC equipment and raw material feeding system to regulate the feeding of raw material into the Kiln, so that the feeding of raw materials would stop automatically in case the air pollution control equipment fails.
16. The industry shall store the Coal & other raw materials in the closed storage sheds so as to avoid fugitive dust emissions. The industry shall extend the capacity of Sheds for storage of Raw materials, if required, so as to store the Raw Materials inside the sheds only.
17. The industry shall take all necessary measures for control of fugitive dust emissions from the Clinker stockpile.
18. All the roads in the plant area shall be asphalted / concreted and water shall be sprayed to reduce fugitive dust emissions.

19. The industry shall maintain water meters for recording the water consumption for recording category-wise water consumption.
20. The industry shall comply with the Task Force directions issued from time to time.
21. The industry shall comply with the stipulations and conditions prescribed in the earlier CFO Orders.
22. As per the Directions issued by the Hon'ble National Green Tribunal (NGT), Principal Bench, New Delhi in Original Application (OA) No. 199 of 2014 vide Judgement dt. 22.12.2016, in the matter of Management of Municipal Solid Waste in Local Bodies, the industry shall buy and use Refused Derived Fuel (RDF) as fuel in the Cement Plant, generated from the RDF Plants located within a 100 Km radius of the Cement Plant.
23. The industry shall develop and maintain green belt all along the boundary of the industry and other vacant places. The industry shall take up extensive plantation under the Haritha Haram program of the State Government.
24. The industry shall furnish details of fly ash brought from the nearby Coal based Thermal Plants, quantity of fly ash consumed per each ton of product, inventory of fly ash at on-site along with details of measures implemented to mitigate fugitive emissions at various transfers points to the R.O., Nalgonda for every three months.
25. The applicant shall maintain & operate THREE Ambient Air Quality Monitoring Stations for monitoring of relevant critical parameters as per the CPCB guidelines and submit monthly reports.
26. The industry shall provide the water sprinkling from the main gate upto Crusher Hopper located in the Plant.
27. The industry shall comply with the Hazardous and Other Waste (Management and Transboundary Movement) Rules, 2016.
28. 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.
29. The conditions are without prejudice to the rights and contentions of this Board in any Hon'ble Court of Law.

SCHEDULE - C

[see rule 6(2)]

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

i. General conditions of Authorization:

1. The authorized person shall comply with the provisions of the Environment (Protection) Act 1986, and the rules made there under.
2. The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the State Pollution Control Board.
3. The person authorized shall not rent, lend, sell, transfer or otherwise transport the Hazardous and other wastes except what is permitted through this authorization.
4. Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.

5. The person authorized shall implement Emergency Response Procedure (ERP) for which this authorization is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc., and their possible impacts and also carryout mock drill in this regard at regular interval of time.
6. The person authorized 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 authorized 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 utilization of imported Hazardous or other wastes shall be treated and disposed of as per specific conditions of authorization.
9. The importer or exporter shall bear the cost of import or export and mitigation of damages if any.
10. An application for the renewal of an authorization shall be made as laid down under the Rules.
11. 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.
12. Annual return shall be filed by June 30th for the period ensuring 31st March of the year.

ii. **Specific Conditions:**

1. The industry shall give top priority for waste minimization and cleaner production practices.
2. The industry shall not store Hazardous Waste for more than 90 days as per the Hazardous and other Wastes (Management and Transboundary Movement) Rules, 2016 and amendments thereof.
3. The industry shall store Used / Waste Oil and Used Lead Acid Batteries in a secured way in their premises till its disposal.
4. The industry shall not dispose Waste oils to the traders and the same shall be disposed to the authorized Reprocessors/ Recyclers.
5. The industry shall dispose Used Lead Acid Batteries to the manufacturers / dealers on buyback basis.
6. The industry shall not dispose spent solvents / mixed spent solvents to the traders.
7. The industry shall take necessary practical steps for prevention of oil spillages and carry over of oil from the premises.
8. The industry shall maintain 7 copy manifest system for transportation of waste generated and a copy shall be submitted to Board Office and concerned Regional Office.

9. The industry shall maintain good house keeping & maintain proper records for Hazardous Wastes stated in Authorization.
10. The industry shall maintain proper Records for Hazardous Wastes stated in Authorization in FORM-3 i.e., quantity of Incinerable waste, land disposal waste, recyclable waste etc. as per Rule 20(1) and file Annual Returns in Form- 4 as per Rule 20(2) of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and amendments thereof.
11. The industry shall dispose of e-waste to the authorized recyclers only.
12. The industry shall submit the condition wise compliance report of the conditions stipulated in Schedule B & C of this Order on half yearly basis to Board Office, Hyderabad and concerned Regional Office.

Sd/-
MEMBER SECRETARY

To
M/s. Penna Cement Industries Ltd.,,
(Cement Plant & Captive Power using Waste Heat Gases),
Ganeshpahad Village,
Damercherla Mandal,
Nalgonda District - 508355.

// T.C.F.B.O //


Joint Chief Environmental Engineer
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