



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.pcb.ap.nic.in

**RED CATEGORY
CONSENT & AUTHORIZATION ORDER**

Consent Order No: APPCB/VJA/GTR/10023/HO/CFO/2020-

Dt:29/08/2020

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. Andhra Cements Limited (Cement Division),
(M/s. Durga Cement Works)
Durgapuram (V), Dachepalli (M),
Guntur District.
Email : dcw.environment@jalindia.co.in**

(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:

Outlet No.	Outlet Description	Max Daily Discharge	Point of Disposal
1	Domestic Effluents	100 KLD	After treatment in STP, the treated wastewater shall be used on-land for irrigation, within the premises, duly meeting the standards stipulated.

ii) Emissions from chimneys:

Chimney No.	Description of Chimney Stack Attached to	Details of Control Equipments	Quantity of Emissions at peak flow nm ³ /hr
1.	Stack attached to Lime Stone Crusher	Bag Filter & Water Sprinklers	--
2.	Stack attached to Raw Mill	RABH	41 Cum/sec
3.	Stack attached to Rotary Kiln		
4.	Stack attached to Clinker Cooler Exhaust	ESP	--
5.	Stack attached to Coal Mill - I	Pulse jet Bag Filter	10.56 Cum/sec

6.	Stack attached to Coal Mill – II	Pulse jet Bag Filter	25 Cum/sec
7.	Stack attached to Cement Mill – I	Pulse jet Bag Filter	13.05 Cum/sec
8.	Stack attached to Cement Mill – II	Pulse jet Bag Filter	25.62 Cum/sec
9.	Stack attached to Cement Mill – III	Pulse jet Bag Filter	14.5 Cum/sec
10.	Stack attached to Packing House	--	--
11.	Stack attached to DG Sets 10 Nos. (6 x 910 KVA + 2 x 2250 KVA + 2 x 2770 KVA)	Silencer	--

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

M/s. Andhra Cements Limited (Cement Division) (M/s. Durga Cement Works), Guntur District is hereby granted an authorization to operate a facility for collection, reception, storage, treatment, transport and disposal of Hazardous Wastes namely:

• **Hazardous Wastes Disposed for Recycling:**

S. N	Name of Hazardous Waste	Stream	Quantity	Mode of Disposal
1	Used / Waste Oil	5.1 of Schedule-I	100 LPA	Shall be routed through APEMCL, so as to dispose the same to authorised Reprocessors/ Recyclers

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

S.No	Products / Line of Activity	Consented capacity as per EC Order Dt.20.12.2017 & CFO Order Dt.23.01.2014	Consented Quantity
1	Clinker	2.00 Million TPA	2.00 Million TPA
2	Cement*	2.31 Million TPA	2.31 Million TPA

*** The Cement production is inclusive of 2.0 Million TPA 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 Authorization shall be valid for a period ending with the 30.06.2021.

**DR. B.MADHUSUDHANA RAO, JCEE(MSRB), O/o JOINT CHIEF
ENVIRONMENTAL ENGINEER4-APPCB**

To

**M/s. Andhra Cements Limited (Cement Division),
(M/s. Durga Cement Works)
Durgapuram (V), Dachepalli (M),
Guntur District.
Email : dcw.environment@jalindia.co.in**

Copy to:

1. The JCEE, Zonal Office, **Vijayawada** for information and necessary action.
2. The EE, Regional Office, **Guntur** for information and necessary action.

SCHEDULE – A

1. The applicant should 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 should not let out the premises / lend / sell / transfer their industrial premises without obtaining prior permission of the State Pollution Control Board.
2. The industry should 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.
3. The industry should carryout analysis of waste water discharges or emissions through chimneys for the parameters mentioned in this order on quarterly basis and submit the same to the Board.
4. 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.
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 industry shall be liable to pay Environmental Compensation, if any environmental damage caused to the surroundings, as fixed by the Collector & District Magistrate or any other competent authority as per the Rules in vogue.

7. 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.
8. 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.
9. Any up-set condition in any industrial plant / activity of the industry, which result in, increased effluent / emission discharge and/ or violation of standards stipulated in this order shall be informed to this Board, under intimation to the Collector and District Magistrate and take immediate action to bring down the discharge / emission below the limits.

SCHEDULE - B

1. The CEMS & CAAQM stations and existing 5 online stack monitorings provided to raw mill & kiln, cooler, coal mill, cement mill-1&2. were calibrated in June, 2019 and same shall be calibrated regularly.
2. The industry shall calibrate the 3 CAAQM stations time to time and upload the data in APPCB / CPCB websites.
3. The 42 No. of water sprinklers provided to mitigate the fugitive emissions shall be operated regularly.
4. The industry shall maintain funds of Rs.28 Cr and Rs.0.95 Cr in separate account, towards the capital cost and recurring cost / annum respectively for environment pollution control measures.

WATER POLLUTION:

1. The source of water is Ground water. The following is the permitted water consumption:

S. No	Purpose	Quantity (KLD)
1	Process (In Raw Mill & Cement Mill)	172.0
2	Cooling Make up	228.0
3	Domestic including plant and township	250.0
	Total	650.0

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

2. The industry shall comply the following general standards for discharge of environmental pollutants, in the treated water of STP for the permitted disposal mode:

Outlet No.	Parameter	Limiting standards
1.	pH	5.5 – 9.0
	Total Suspended solids	<100 mg/l
	BOD	30 mg/l
	Oil and Grease	10 mg/l

Fecal coliform (FC) (Most Probable Number per 100 milliliter, MPN/100 ml)	< 1000
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AIR POLLUTION:

4. The emissions shall not contain constituents in excess of the prescribed limits mentioned below for the cement plants without co-processing facility of hazardous wastes, as per the MoEF&CC Notifications of G.S.R. 612 (E), Dt.25.08.2014 & G.S.R. 496 (E), Dt.09.05.2016:

Chimney No.	Parameter	Emission Standards
1 to 9	Particulate Matter	30 mg/Nm ³
	Sulphur Dioxide (SO ₂)	100, 700 and 1000 mg/Nm ³ when pyritic sulphur in the limestone is less than 0.25%, 0.25 to 0.5% and more than 0.5% respectively.
	Oxides of Nitrogen (NO _x)	800 mg/Nm ³ for rotary kiln

3. The industry 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 of failure of the air pollution control equipments.
4. The industry shall control fugitive emissions generated due to handling, conveyance and storage of crushed limestone, additives, coal, clinker and gypsum with required water spraying systems and dust suppression system. All raw materials shall be stored in closed sheds only.
5. The industry shall maintain adequate dust collection and extraction system to control fugitive emissions at various material transfer points & the dust collected from pollution control equipments shall be recycled back into the process. The compliance status shall be reported to RO, Guntur.
6. 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 RO, Guntur.
7. All the roads in the plant area should be asphalted / concreted and water shall be sprayed to reduce fugitive dust emissions. The industry shall develop avenue plantations along the roads and available vacant spaces in coordination with local panchayats.
8. The industry should maintain and submit the records of daily operating hours of Kiln, ESP and reasons for ESP trippings to RO, Guntur on monthly basis.
9. The industry before commencing the operation of the plant, should that the APC system (Bag Filters) to the primary & Secondary coal crushers are provided.
10. The industry shall establish appropriate RWH structure on the available up-stream portion of the plant site.
11. 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 by MoEF&CC notification GSR 826(E), 16.11.2009 & CPCB Notification No.B-29016/20/90/PCI-I, dated 18.11.2009 and its subsequent amendments thereof.

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

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

12. 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.

GENERAL:

13. The industry shall maintain the log books for Effluents generated, treated and used for Green Belt development, Log Books for pollution control systems, Characteristics of ambient air, effluents and emissions, Hazardous/non hazardous solid waste generated, disposed and incinerated etc. and the same shall be made available to the inspecting officers of the Board.
14. The industry shall consume Pet Coke as alternative fuel not more than 400 TPD in the cement kiln, as per CFO Order Dt.01.02.2018 and shall submit the import details of pet coke along with analysis reports and quantity of utilization of pet coke in process to RO, Guntur on monthly basis.
15. 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., for noise generating sources.
16. Greenbelt of adequate width and density shall be maintained along the boundary of the industry with minimum area of 33% of total area.
17. The industry shall comply with standards and directions issued by CPCB / MoEF&CC as and when notifications are issued.
18. The industry is introducing the plastic into the market along with their products which attracts Plastic Waste Management Rules, 2016 & its amendments thereof, the industry shall obtain registration and furnish EPR plan for collection of the plastic waste.
19. The industry shall dispose the plastic waste generated from the damaged and waste sacks of cement packaging unit as per Plastic Waste Management Rules, 2016 & its amendments thereof.
20. The industry shall comply with the standards stipulated for Air & Water, in case of non compliance and fire accidents, the industry is liable for Environmental Compensation and Environmental Damage Compensation, as per the Central Pollution Control Board (CPCB) assessing methodology of Environmental Compensation.
21. 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 RO / ZO.

SCHEDULE – C

[See rule 6 (2)]

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

1. The industry shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under and any other conditions/ the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.
2. The industry shall furnish Annual Returns, for the last financial year, under these Rules by June 30th of every year and the industry shall obtain the renewal of authorisation time to time. The industry shall produce authorisation copy or its renewal to the authorized inspecting officers of the Board on their request.
3. The industry shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except those permitted in the authorization and any unauthorised change in personnel, equipment or working conditions as mentioned in the application by the industry and closing of the facility without prior intimation to the Board, is treated as violation of HOWM Rules, 2016.
- 4. As per the instructions under the Board Circular. No.F-30/APPCB/HO/HWM/RO-ZO/2020, dated 22/07/2020, the following conditions are stipulated:**
 - The industry shall inventorize the storage quantities of hazardous chemicals (raw materials), products, as per the hazard nature of reactivity/ toxicity/ flammability/ explosive materials stored/handling in the premises as defined in the MSIHC Rules, 1989 and the details shall be furnished to the Factories Department and to the Regional Office, APPCB on monthly basis duly certifying the same.
 - The industry shall identify major accident hazard chemicals & list out the hazardous chemicals endangered to human health & environment and the details shall be furnished to the Factories Department and to the Regional Office, APPCB time to time duly certifying the same by the industry. Further the industry shall extend training to the working personnels while handling hazardous chemicals for prevention of accidents and necessary antidotes to ensure the safety, as per the MSIHC Rules, 1989.
 - The industry shall submit the copy of the safety audit report and On-Site/ Off Site Emergency Plans as applicable after being certified by the Factories Department to the APPCB, Regional Office from time to time, if the storage quantity of hazardous chemicals is equal to or, in excess of the threshold quantities specified in schedule 2 & 3 of MSIHC Rules, 1989.
 - The industry shall carryout calibration of safety equipments and leak detection systems at regular intervals and shall certify the same with the Factories Department. That certified copy shall be submitted to the APPCB, Regional Office. The industry shall install fluorescent Wind Vane at the highest point in the industry premises.
 - The industry shall inventorize the hazardous wastes and its quantities stored within the industry premises as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 (HOWM Rules, 2016) and shall furnish the details to Regional Office, APPCB on monthly basis duly certifying the same by the industry.

5. The industry 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”.
6. The industry shall not store hazardous waste for more than 90 days as per the Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016.
7. 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.
8. 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.
9. The industry shall maintain proper records for Hazardous & other wastes stated in Authorization in FORM-3 i.e., quantity of Incinerable waste, land disposal waste, recyclable waste etc., and file annual returns in Form- 4 as per Rule 6 (5) of the Hazardous & Other Wastes (Management & Transboundary Movement) Rules, 2016 and amendments thereof by June 30th for the period ensuring 31st March of the year.
10. The industry shall submit the condition wise compliance report of the conditions stipulated in Schedule A, B & C of this Order on half yearly basis to Board Office and concerned Regional Office.

**DR. B.MADHUSUDHANA RAO, JCEE(MSRB), O/o JOINT CHIEF
ENVIRONMENTAL ENGINEER4-APPCB**

To
M/s. Andhra Cements Limited (Cement Division),
(M/s. Durga Cement Works)
Durgapuram (V), Dachepalli (M),
Guntur District.
Email : dcw.environment@jalindia.co.in

Signature Not Verified

Digitally signed by D.F. B
MADHUSUDHANA RAO
Date: 2020.08.29 18:35:59 IST
Reason: Approved

