



**CONSENT & AUTHORISATION ORDER
BY REGISTERED POST WITH ACKNOWLEDGEMENT DUE**

Consent Order No : APPCB/KNL/KNL/HO/CFO/2011- 1684

Date:08.09.2011.

(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 Authorisation / Renewal of Authorisation under Rule 5 of the Hazardous Wastes (Management & Handling) Rules 1989 & Amendment Rules).

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 Authorisation under the provisions of HW (M & H) Rules (hereinafter referred to as 'the Acts', 'the Rules') and the rules and orders made thereunder to

**M/s JSW Cement Limited.,
[Formerly known as M/s Gayathri Cements],
Bilakalaguduru & Bhujanar Village,
Gadivemula Mandal,
Kurnool District.**

(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) Out lets for discharge of effluents:

Outlet No.	Outlet Description	Max Daily Discharge	Point of Disposal
1.	Cooling	1100	Treated water should be used for cooling and dust suppression.
2.	DM plant / RO plant / Filtration plant / clarifier	685	
3.	Others	150	
4.	Domestic	428	Onland for gardening.

ii) Emissions from chimneys:

Chimney No.	Description of Chimney	Quantity of Emissions in m3/hr. at peak flow
1.	Attached to Raw mill / kiln of capacity 6000 TPD	--
2.	Attached to Clinker cooler	--
3.	Attached to Coal mill	--
4.	Attached to Cement mill - I	--
5.	Attached to Cement mill - II	--
6.	Attached to Cement mill - III	--
7.	Attached to Lime stone crusher	--
8.	Attached to Packer - I	--
9.	Attached to Packer - II	--
10.	Attached to Packer - III	--

iii) HAZARDOUS WASTE AUTHORISATION (FORM.- II) [See Rule 5 (4)]

1. Number of Authorisation and date of issue KRL - 66 /PCB/HWM/2011 Dt:08.09.2011.
2. **M/s JSW Cement Limited [Formerly known as M/s Gayathri Cements], Bilakalaguduru & Bhujanar Village, Gadivemula Mandal, Kurnool District** is hereby granted an authorisation to operate a facility for collection, reception, storage, transport and disposal of the following wastes with quantities as below:

• HAZARDOUS WASTES WITH RECYCLING OPTION:

S. No.	Name of the Hazardous Waste	Stream	Quantity of Hazardous Waste	Disposal Option
1.	Waste /Lube oil	5.1 of Schedule-I	10 KL/annum	Authorized recyclers/ re-processors.
2.	Waste Grease	5.2 of Schedule-I	3825Kgs/annum	

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

S. No	Product	Capacity
1.	Portland Slag Cement	1.1 Million TPA
2.	Ordinary Portland Cement (OPC/PPC)	1.1 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 Authorisation should be valid for a period ending with the 31st day of May, 2012.

Sd/-
MEMBER SECRETARY

To

M/s JSW Cement Limited.,
[Formerly known as M/s Gayathri Cements],
Bilakalaguduru & Bhujanar Village,
Gadivemula Mandal,
Kurnool District - 518501.

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

8/2/15
JOINT CHIEF ENVIRONMENTAL ENGINEER (CFO)
SCHEDULE - A

- The applicant should make applications for renewal of Consent (under Water and Air Acts) and Authorization under HWM Rules **at least 60 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 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 etc.
- All the fugitive emissions should be controlled with proper measures.
 - The applicant should also install the equipment such as wind speed recorder, wind direction recorder.
- The applicant should not change or alter either the quality or the quantity or the rate of the discharge or the route of discharge and should not change or alter either the prescribed quality or the rate of emission without the previous written permission of the Board.
- The applicant should, not later than 30 days from the date of issue of this consent order, certify in writing to the Board that the applicant has installed or provided for an alternative electric power source sufficient to operate all facilities installed by the applicant, to comply with the terms and conditions of this consent. In absence of alternative electric power source sufficient to operate all facilities installed by the applicant, to comply with the terms and conditions of this consent, production should be stopped.
- Any up-set condition in any plant/plants of the industry, which result in, increased effluent discharge and/ or violation of standards stipulated in this order or the emission of any Air Pollutant into the environment in excess of the standards laid down by the Board, occurs or is apprehended to occur due to accident, or other unforeseen act or event, the person-in-charge of the premises, from where such discharge / emission occurs or is apprehended to occur should forthwith intimate the fact of such occurrence or the

- apprehension of such occurrence to this Board, by fax / email under intimation to the Collector and District Magistrate.
7. In case of such episodal discharges / emissions mentioned in item 6 above, the industry should take immediate action to bring down the discharge / emission below the limits prescribed in this order.
 8. A good house keeping should be maintained both within the factory and in the premises. All hoods, pipes, valves, sewers and drains should be leak proof. Floor washings should be admitted into the effluent collection system only and should not be allowed to find their way into storm drains or open areas.
 9. a)The industry should carryout analysis of waste water discharges or emissions through chimneys, for the parameters mentioned in Schedule – B of this order at regular intervals.
b)The industry should maintain following records to accessible to the Board, whenever required.
 1. Analysis reports of waste water/ emissions.
 2. Log book for operation of pollution control systems.
 3. Inspection book
 10. The applicant should set up THREE Ambient Air Quality Monitoring Stations for continuous recording of relevant critical parameters mentioned in Schedule - B as per the CPCB guidelines and submit monthly reports.
 11. Separate power connection with energy meter should be provided for the Pollution Control Equipments and record of power consumption and chemicals consumption for the operation of pollution control equipment should be maintained separately.
 12. The applicant should comply with the directives/orders issued by the Board in this order and at all subsequent times without any negligence on his part. The applicant should be liable for such legal action against him as per provisions of the Law/Act in case if non-compliance of any order/directive issued at any time and/or violation of the terms and conditions of this consent order.
 13. The applicant should furnish to the visiting officer and / or the Board any information regarding the construction, installation or operation of the effluent treatment system / air pollution control equipment / secured storage area of Hazardous Waste and such other particulars as may be pertinent for preventing and controlling pollution.
 14. The industry is liable to pay compensation for any environmental damage caused by it, as fixed by the Collector and District Magistrate as Civil liability.
 15. All the rules & regulations notified by Ministry of Environment and Forests, Government of India in respect of management, handling, transportation and storage of hazardous chemicals and wastes should be followed.
 16. All the rules & regulations notified by Ministry of Law and Justice, Government of India regarding Public Liability Insurance Act, 1991 should be followed.
 17. The occupier should educate the workers and nearby public of possible accidents and remedial measures.
 18. For any accident or spillage of hazardous wastes causing damage to the Environment, the occupier or the transporter as the case should be held responsible.
 19. In case of closure of industry, the un-used/not consumed raw materials falling under the category of Hazardous Chemicals and mentioned in Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 and Amendment Rules, 2003 should be removed and sold to other units within 90 days from the date of closure to prevent any possibility of occurrence of an accident. In case the above hazardous chemicals have lost their properties originally acquired, then they should be treated, as Hazardous Waste and they should be disposed off only to the agencies authorized by APPCB in a safe manner.
 20. The occupier should prepare/update Emergency preparedness plan for safe handling of hazardous waste from time to time and submit the same to APPCB. Emergency preparedness plan must be implemented immediately whenever there is fire, explosion or release of hazardous waste or hazardous waste constituents, which could endanger to human health or environment.
 21. Packaging, labeling and transportation of Hazardous Wastes should be in accordance with the provisions of the rules issued by the Central Govt. under the Motor Vehicles Act, 1988 and other guidelines issued from time to time. The packaging and labeling should be based on the composition and hazardous constituent of the waste, however all Hazardous Waste containers should be provided with a general label.
 22. 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 (as given in the guidelines for management and handling of hazardous wastes) duly filled by the Hazardous Waste generator.
 23. No Hazardous Wastes should be mixed with any other wastes or should be discharged to a common, other internal, external sewerage or other drainage system without prior approval of APPCB.
 24. If HDPE bags are used for storing Hazardous Wastes, it should be ensured that they are perfectly sealed mechanically or double hot sealed. If MS/HDPE bags or drums are used

- for storing Hazardous Wastes, these drums / bags should be ensured that they are perfectly sealed.
25. The person authorised should not rent, lend, sell, transfer their industrial premises without obtaining prior permission of the State Pollution Control Board.
 26. Any unauthorised change in personnel, equipment as working condition as mentioned in the application by the person authorized should constitute a breach of his authorisation.
 27. The industry should comply with the provisions of Batteries (Management & Handling) Rules, 2001.
 28. The industry should put up two sign boards (6x4 ft. each) at publicly visible places at the main gate. The first sign board should provide information on specific conditions of CFO and Hazardous Waste Authorisation. The second sign board should display online data on quantity and nature of hazardous chemicals being used in the plant, as well as water, air emissions and solid waste generated within the factory premises.
 29. The applicant should exhibit the Consent & HW Authorisation order of the Board in the factory premises at a prominent place for the information of the inspecting officers of the different departments.
 30. Notwithstanding anything contained in this conditional letter or consent, the Board hereby reserves the right and powers under Section 27(2) of the Water (Prevention & Control of Pollution) Act, 1974 and its amendments thereof and under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and its amendments thereof to review 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.
 31. The authorisation issued under Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008 and its amendments thereof, should comply with the provision of the Environment (Protection) Act, 1986.

SCHEDULE - B

Special Conditions:

1. The effluent discharged should not contain constituents in excess of the tolerance limits mentioned below.

Outlet	Parameter No.	Limiting Standards
1.	pH	5.5 - 9.0
	TSS	200 mg/l
	TDS	2100 mg/l
	Oil and Grease	10 mg/l
	BOD	100 mg/l

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

S.No.	Purpose	Quantity in KLD
1.	Boiler feed	265
2.	Cooling	1600
3.	DM plant / RO plant / Filtration plant / clarifier	685
4.	Domestic	535
5.	Others	415
Total		3500

3. The industry should file the water Cess returns in Form-I as required under section (5) of Water (Prevention and Control of Pollution) Cess Act, 1977 on or before the 5th of every calendar month, showing the quantity of water consumed in the previous month along with water meter readings. The industry should remit water Cess as per the assessment orders as and when issued by Board.
4. The emissions should not contain constituents in excess of the prescribed limits mentioned below.

Chimney No.	Parameter	Emission Standards
1 to 10	SPM	50 mg/Nm ³

5. The industry should 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 should 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.

6. The industry should comply with ambient air quality standards of PM₁₀ (Particulate Matter size less than 10µm) - 100 µg/ m³; PM_{2.5} (Particulate Matter size less than 2.5 µm) - 60 µg/ m³; SO₂ - 80 µg/ m³; NO_x - 80 µg/ 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).

7. The industry should not produce beyond the permitted capacity as mentioned in this order, without obtaining prior CFE & CFO of the Board.
8. The industry should restrict the production capacity as per CFE & CFO of the Board. The production quantity should be calculated on daily basis only.
9. The industry should install and commission Online monitoring station for stack and AAQ in consultation with RO, Kurnool and connect the same to the Board.
10. The industry should install continuous stack & Ambient Air Quality monitoring stations in consultation with RO, Kurnool.
11. The industry should submit the performance evaluation report of Air Pollution Control equipment to RO, Kurnool.
12. The proponent should provide interlocking system for air pollution control equipments provided with raw materials feeding system so that the feeding of raw materials would be stopped incase the air pollution control equipments fails.
13. The industry should ensure implementation of requisite measures to prevent air pollution in the surrounding area.
14. All the roads in the plant area should be asphalted /concreted and water should be sprayed to reduce fugitive dust emissions.
15. The industry should provide adequate dust collection and extraction system to control fugitive emissions at various transfer points & the dust collected from pollution control equipments should be recycled back into the process. The compliance status should be reported to RO, Kurnool.
16. The industry should maintain and submit the records of daily operating hours of kiln, ESP and reasons for ESP tripping to RO, Kurnool on monthly basis.
17. The Sewage Treatment Plant (STP) should be constructed and commissioned and air pollution control equipments should be install along with the commissioning of the activity. All the units of the STP should be impervious to prevent ground water pollution.
18. The industry should carry out performance evaluation of air pollution control equipments provided to the kilns & at other transfer points and should submit the details to the R.O., Kurnool along with monitoring reports.
19. The Cement concrete roads in the plant area should be laid to prevent dust emissions. The compliance report should be submitted to the Regional office, Kurnool.
20. The industry should maintain the records on clinker production, utilized for cement production and stocks maintained at on-site and should submit consolidated reports to the Regional Office of the Board.
21. Thick green belt should be developed & maintained by the industry with tall growing trees in the vacant spaces of the unit.
22. The industry should establish appropriate RWH structure on the available up-stream portion of the plant site.
23. The industry should provide separate water meters with necessary pipeline for assessing the quantity of water used for each of the purposes mentioned below.
 - a. Industrial cooling, boiler feed.
 - b. Domestic purposes.
 - c. Processing, whereby water gets polluted and pollutants are easily biodegradable.
 - d. Processing, whereby water gets polluted and pollutants are not easily biodegradable.
24. The industry should provide co-incineration facility to the kiln for utilization of waste materials including hazardous wastes.
25. The applicant should submit Environment statement in Form V before 30th September every year as per Rule No.14 of E(P) Rules, 1986 & amendments thereof.

SCHEDULE - C

**[see rule 5(4)]
[CONDITIONS OF AUTHORISATION FOR OCCUPIER OR OPERATOR HANDLING
HAZARDOUS WASTES]**

1. The industry should give top priority for waste minimization and cleaner production practices.
2. The industry should not store hazardous waste for more than 90 days as per the Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and amendments thereof.
3. The industry should store Used / Waste Oil and Used Lead Acid Batteries in a secured way in their premises till its disposal.
4. The industry should not dispose Waste oils to the traders and the same should be disposed to the authorized Reprocessors/ Recyclers.
5. The industry should dispose Used Lead Acid Batteries to the manufacturers / dealers on buyback basis.
6. The industry should carry out co-processing of incinerable hazardous waste in rotary kilns.
7. The industry should implement the Fly ash Notification and Amendments thereof.
8. The industry should take necessary practical steps for prevention of oil spillages and carry over of oil from the premises.
9. The industry should maintain 6 copy manifest system for transportation of waste generated and a copy should be submitted to Board Office and concerned Regional Office.
10. The industry should maintain good house keeping & maintain proper records for Hazardous Wastes stated in Authorisation.
11. The industry should maintain proper records for Hazardous Wastes stated in Authorisation 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 22(2) of the Hazardous Wastes (Management, Handling & Transboundary Movement) Rules, 2008 and amendments thereof.
12. The industry should 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, Hyderabad and concerned Regional Office.
13. The industry should dispose the e-waste to authorised recyclers / re-processors only.

**Sd/-
MEMBER SECRETARY**

To,

**M/s JSW Cement Limited.,
[Formerly known as M/s Gayathri Cements],
Bilakalaguduru & Bhujanar Village,
Gadivemula Mandal,
Kurnool District 518501.**

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JOINT CHIEF ENVIRONMENTAL ENGINEER (CFO)