

MAHARASHTRA POLLUTION CONTROL BOARD

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Mumbai-400 022.

RED/ LSI

Consent No. BO /JD (APC)/EIC No. CH-0564-11 /E/CC- **CAC-264** Date: **07/02/2012**

Consent to **Establish** under **Section 25** of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization / Renewal of Authorization under Rule 5 of the Hazardous Wastes (Management, Handling & Trans Boundary Movement) Rules 2008. [To be referred as Water Act, Air Act and H W (M, H & TM) Rules respectively].

CONSENT is hereby granted to

M/s. Reliance Cementation Pvt. Ltd.,
(Integrated Cement Plant & Captive Power Plant),
S.No.42-46,49-66,104-131,135-138,162 & 164-168 at village Mukutban and
S.No.312-322,324-329 & 381-384 At Village Adegaon,
Tal. Zari Jamni, Dist. - Yavatmal.

located in the area declared under the provisions of the Water Act, Air act and Authorization under the provisions of H W (M, H & TM) Rules subject to the provisions of the Act and the Rules and the Orders that may be made further and subject to the following terms and conditions:

1. The Consent to Establish is granted for a period up to – Commissioning of the project or 5 years whichever is earlier.

“Consent to Establish will be operational only after obtaining Environmental Clearance from Competent Authority by the applicant and subject to the compliance of conditions stipulated in an Environment Clearance including conditions which may be more stringent , if stipulated by/in the Environment Clearance.”

2. The Consent is valid for the manufacture of –

<u>Sr.No.</u>	<u>Product</u>	<u>Maximum Quantity</u>
1.	Clinker	2.9 Million MT/Y
2.	Cement	4.8 Million MT/Y
3.	Electricity	75MW (CPP coal based Thermal Power Plant)

CONDITIONS UNDER WATER ACT :

- (i) The daily quantity of trade effluent from the factory shall not exceed **220.0 m³**.
- (ii) The daily quantity of sewage effluent from the factory shall not exceed **600.0 m³**.
- (iii) **Trade Effluent Treatment:** The applicant shall provide comprehensive treatment system consisting of primary / secondary and/or tertiary treatment as is warranted with reference to influent quality and operate and maintain the same continuously so as to achieve the quality of the treated effluent to the following standards:

1	pH	Between	5.5 to 9.0
2	Oil & Grease	Not to exceed	10 mg/l
3	Suspended Solids	Not to exceed	100 mg/l.
4	BOD 3 days 27° C.	Not to exceed	100 mg/l.
5	COD	Not to exceed	250 mg/l.
6	TDS	Not to exceed	2100 mg/l.
7	Chlorides	Not to exceed	600 mg/l.
8	Sulphates	Not to exceed	1000 mg/l.

- (iv) The industrial effluent arising from various sections of Power Plant shall be given such treatment either collective or individually as the site condition permits that the final quality of effluent shall have following character standards:

I. Condensor Cooling Water :

- 1) pH Between 6.5 to 8.5
- 2) Temperature Not to exceed 5 Degree C.
Higher than the intake water temperature.
- 3) Free available Chlorine Not to exceed 0.5 mg/l

II. Boiler Blowdown :

1)	Suspended Solids	Not to exceed	100	mg/l.
2)	Oil & Grease	Not to exceed	20	mg/l.
3)	Copper (Total)	Not to exceed	1	mg/l.
4)	Iron (Total)	Not to exceed	1	mg/l.

III. Cooling Tower Blowdown :

1)	Free available Chlorine	Not to exceed	0.5	mg/l.
2)	Zinc	Not to exceed	1	mg/l.
3)	Chromium (Total)	Not to exceed	0.2	mg/l.
4)	Phosphate	Not to exceed	5	mg/l.

IV. Ash Pond Effluent :

1)	pH	Between 6.5 to 8.5		
2)	Suspended Solids	Not to exceed	100	mg/l.
3)	Oil & Grease	Not to exceed	20	mg/l.

(v) **Trade Effluent Disposal:** The treated effluent shall be recycle/reused to the maximum extent for cooling, dust separation and remaining disposed on land for gardening/plantation purpose in the premises only.

(vi) **Sewage Effluent Treatment:** The applicant shall provide comprehensive treatment system as is warranted with reference to influent quality and operate and maintain the same continuously so as to achieve the quality of treated effluent to the following standards.

(1)	Suspended Solids	Not to exceed	100	mg/l.
(2)	BOD 3 days 27o C.	Not to exceed	100	mg/l.

(vii) **Sewage Effluent Disposal:** The treated domestic effluent shall be recycle/reused in the process for cooling, dust suppression etc to the maximum extent and remaining shall be used on land for gardening.

(viii) Non-Hazardous Solid Wastes:

<u>Sr. No.</u>	<u>Type of waste</u>	<u>Quantity</u>	<u>Treatment</u>	<u>Disposal</u>
1.	Fly Ash from CPP	15,75,000 Ton/Annum	Re-cycled in cement making	

(Please note that entire fly/bottom ash shall be used in Captive Cement Plant)

(ix) Other conditions:

- 1) The industry shall monitor effluent quality regularly.
- 2) Green Belt a forestation shall be done up to 33% on available open space land.

4. The applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Cess Act, 1977 (to be referred as Cess Act) and Rules there under:

The daily water consumption for the following categories is as under:

(i) Domestic	...	1000	CMD
(ii) Industrial Processing	...	1325	CMD
(iii) Industrial Cooling/boiler	...	7000	CMD
(iv) Agriculture/Gardening	CMD

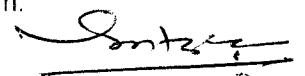
The applicant shall regularly submit to the Board the returns of water consumption in the prescribed form and pay the Cess as specified under Section 3 of the said Act.

5. CONDITIONS UNDER AIR ACT :

(i) The applicant shall install a comprehensive control system consisting of control equipments as is warranted with reference to generation of emission and operate and maintain the same continuously so as to achieve the level of pollutants to the following standards:

Control Equipment:

1. Glass bag house shall be provided to Raw Mill/K.ln, ESP/Bag filter shall be provided to Coal Mills, Cement Mills, Packers and ESP shall be provided to Clinker Cooler, Cement Mills and CPP boilers shall be operate and maintain regularly so as to achieve the following standards-
2. Dust collector of sufficient capacity shall be provided to following process units with sufficient capacity to limit the emission :-a) crusher, b) raw mill hopper, c) Blending silo, d) klin feed, e) raw coal crusher, f) fine coal silo, g) clinker (stockpiles), h) Cement mill hopper, i) Cement silo, j) packing plant, k) fly ash handling, l) cement mill separator, m) bulk loading of cement, n) fly ash truck loading platform.



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Standards for Emissions of Air Pollutants:

- (i) SPM/TPM Not to exceed 50 mg/Nm³
(ii) SO₂ Not to exceed 10 MT/cay.

(ii) **The applicant shall observe the following fuel pattern:-**

<u>Sr.No.</u>	<u>Type of Fuel</u>	<u>Quantity</u>
1.	Coal (for cement Plant)	5,50,000 Ton/Annum
2.	Coal (for captive power plant)	4,50,000 Ton/annum
3.	HSD (for DG sets)	0.8 KL/hr.

(iii) **The applicant shall erect the chimney(s) of the following specifications:-**

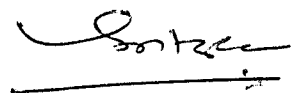
<u>Sr.No.</u>	<u>Chimney attached to</u>	<u>Height in Mtrs.</u>
1.	Raw Mill / Kiln	120.0
2.	Coal Mill	72.0
3.	Cement Mills-1&2	36.0 each
4.	Packing plants- 1 & 2	38.0 each
5.	Cooler	72.0
6.	CPP Boiler (Coal)	100.0
7.	Crusher	30.0

Conditions for D.G. Set:-

- 1] Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
 - 2] Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/acoustic treatment of the room should be designed for minimum 25 dB(A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB(A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 metres from acoustic enclosure/room and then average.
 - 3] The industry shall take adequate measures for control of noise levels from its own sources within the premises in respect of noise to less than 55 dB(A) during day time and 45 dB(A) during the night time. Day time is reckoned between 6 a.m. to 10 p.m. and night time is reckoned between 10 p.m. to 6 a.m.
 - 4] Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper siting and control measures.
 - 5] Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
 - 6] A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.
 - 7] D.G. Set shall be operated only in case of power failure.
 - 8] The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
- (iv) The applicant shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted /displayed to facilitate identification.
- (v) The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB(A) during day time and 70 dB(A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.

(vi) **Other Conditions :**

1. **The applicant shall install online continuous monitoring system for stack emission analysis & same shall be directly connected to MPCB website <http://mpcb.gov.in> as well as to the respective Regional Office.**
2. **The applicant shall install Three continuous automatic ambient air and micrometeorological monitoring station at location indicated by State Board to be set up and operate at its own cost measure SO₂, NO_x and particulate matter. These CAAQMS shall also have necessary provision of networking to the Air Quality Monitoring network of MPCB website <http://mpcb.gov.in> as well as to the respective Regional Office within next six months.**
3. If due to any technological improvements or otherwise this Board is of opinion that all or any of the conditions referred above require variation (including the change of any control equipment either in whole or in part), this Board shall after giving the applicant an opportunity of being heard very all or any of such conditions and thereupon the applicant shall be bound to comply with the conditions so varied.



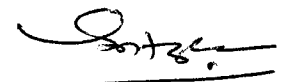
4. The coal handling system shall be covered with proper hooding and ventilation arrangements connected to dust suppress agent so as not to allow any fugitive emissions.
5. A green belt with tree plantation shall be maintained up to a distance not less than 200 mtrs around Thermal Power Plant.
6. There shall not be any fugitive emissions.
7. The factory authorities shall install a separate interlinked metering system showing the consumption of energy for operation of domestic and industrial effluent treatment plants. The quarterly returns of the energy / consumption shall be submitted to Board Office under intimation to respective Regional and Sub Regional Officer on each 10th of January, April, July & October.
8. The firm shall provide continuous flow meter for the measurement of the flow of the effluent.
9. The industry shall not cause any nuisance in surrounding area.
10. The industry shall monitor stack emissions & ambient air quality regularly.
11. **The applicant shall comply with the National Ambient Air Quality standards as per the Environment (Protection) Act 1986 notification dated 18.11.2009.**

6. Hazardous Wastes (Management, Handling & Trans Boundary Movement) Rules 2008:

- (i) The applicant shall handle hazardous wastes as specified below:

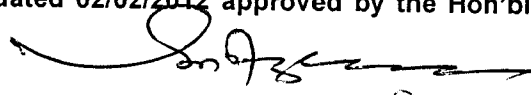
Sr. No	Item No. of Process generating HW as per Schedule-I	Type of Waste	Quantity	Disposal
1	5.1	Used Oil	0.1 MT/Month	Shall be sent to CPCB/SPCB Authorised re-processor

- (ii) The authorization is hereby granted to operate a facility for collection, storage, transport and disposal of hazardous waste.
7. Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipments, the production process connected to it shall be stopped.
 8. **General conditions:**
 - (i) The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a yearly statement by 30th September every year on available open plot area, no. of trees surviving as on 31st March of the year and no. of trees planted by September end.
 - (ii) The applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by he applicant and operate the same in case of power failure to maintain compliance with the terms and conditions of the consent. In the absence of same, the applicant shall stop, reduce or otherwise, control production to abide by terms & conditions of this consent regarding pollution levels.
 - (iii) The firm shall submit MPCB, the Environmental Statement Report for the financial year ending 31st March in the prescribed Form-V as pre the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992 before 30th September every year.
 - (iv) The applicant shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained. The applicant shall also submit a comparative statement of designed power and chemical consumptions vis-a-vis actual power and chemical consumption along with Environmental statement.
 - (v) Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers down- stream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
 - (vi) The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous wastes to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf. An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
 - (vii) The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
 9. Applicant shall ensure to implement mitigation measures mentioned in Environment Management Plan.
 10. The applicant shall not change or alter quantity, quality, the rate of discharge, temperature or the mode of the effluent/ emissions or hazardous wastes or control equipments provided for without previous written permission of the Board.



11. This is issued pursuant to the decision of Consent Appraisal Committee meeting of the Board held on 23rd January, 2012.
12. The applicant shall not take any effective steps for implementation of the project unless to obtain Environment Clearance as per the EIA Notification 2006 and as amended to date.
13. The applicant shall implement mechanical close type transportation system for coal & mineral metal transporting trucks w.e.f. 1.4.2012 and submit the action plan for the same as soon as construction work begins.
14. The applicant shall obtain Consent to Operate from Maharashtra Pollution Control Board before starting actual commercial production.
15. The applicant shall install the Waste Heat Recovery Boiler.
16. Operational area of the industry shall be more than 2.0 KM away from the average flood line of the nearest notified River & submit the clarification from Executive Engineer, Irrigation Department within one month period.
17. Total capital investment of the Cement Plant & CPP project is Rs.2162.8/- Crore.

This consent is issued as per the office note dated 02/02/2012 approved by the Hon'ble Chairman of the Board.



(V.M. Motghare) Joint Director (Air Pollution Control)

To,
M/s. Reliance Cementation Pvt. Ltd.,
(Integrated Cement Plant & Captive Power Plant),
S.No.42-46,49-66,104-131,135-138,162 & 164-168 at village Mukutban
and S.No.312-322,324-329 & 381-384 At Village Adegaon,
Tal. Zari Jamni, Dist. - Yavatmal.

Copy to:

- 1) Regional Officer, MPC Board, Chandrapur
- 2) Sub Regional Officer, MPC Board, Chandrapur.
- 3) Chief Accounts Officer, MPC Board, Mumbai.

Received Consent fee of –

<u>Amount</u>	<u>D. D. No.</u>	<u>Date</u>	<u>Drawn on</u>
Rs. 24,00,000/-	034885	28.7.2010	ICICI Bank
Rs. 39,00,000/-*	135883	17.1.2012	ICICI Bank

(Combined consent fee of Cement Plant, Captive Power Plant & Lime stone mine)

* Consent Fees received as per revised consent fee GR of Env Deptt, GoM, dated 25.8.2011.

- 4) Cess Branch, MPC Board, Mumbai.
- 5) Master file.