

MAHARASHTRA POLLUTION CONTROL BOARD

Phone : 24010437/24014701/24020781

Fax : 24024068/24023516

Website: <http://mpcb.gov.in>

E-Mail: jdair@mpcb.gov.in



KALPATARU POINT, 3rd Floor,
Sion-Matunga Scheme Rd. No.8,
Opp. Sion Circle, Sion (East),
Mumbai-400 022.

RED/ LSI

Consent No. BO /JD (APC)/EIC No. NG-7207-12 /O **CAC-581** Date **28/08/2012**

Consent to **Operate** under **Section 26** 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 Cement Company Pvt. Ltd., (Phase-I),
(Formerly Known as M/s Reliance Cementation Pvt. Ltd.),
Plot No.J-2, MIDC Butibori, Nagpur,
Dist. - Nagpur.**

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 **Operate** is granted for a period up to – **31.05.2013**

2. The Consent is valid for the manufacture of –

Sr.No.	Product	Maximum Quantity
1.	Cement (By Clinker Grinding & Mixing of fly ash & gypsum)	2.0 million ton per annum

3. **CONDITIONS UNDER WATER ACT :**

(i) The daily quantity of trade effluent from the factory shall not exceed **35.0 m³**.

(ii) The daily quantity of sewage effluent from the factory shall not exceed **12.0 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) **Trade Effluent Disposal:** The treated effluent shall be recycle/reused to the maximum extent for cooling, dust separation and remaining shall be sent to CETP Butibori for further disposal. There shall not be any discharge of effluent outside factory premises.

(v) **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 27° C. Not to exceed 100 mg/l.

(vi) **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 in the factory premises only.

(vii) **Non-Hazardous Solid Wastes:**

Sr. No.	Type of waste	Quantity	Treatment	Disposal
1.	Sludge arises from Sewage treatment Plant	60 kg/month	used as manure	in the premises only.

(viii) **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	...	10.0	CMD
(ii) Industrial Processing	CMD
(iii) Industrial Cooling/boiler	...	390.0	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. Bag filters provided to Clinker Hopper, Gypsum Hopper, Cement Mill, Auxiliary, Separator, Fly Ash silos, OPC/PPC Silos, Fly Ash Handling/staorge system, Clinker Gantry, Rotary Packers, bulk loading of cement , Feeding Hopper, RMC Unit and Other Sources of TPM & SPM shall be operate and maintain regularly so as to achieve the following standards-

Standards for Emissions of Air Pollutants:

(i) SPM/TPM	Not to exceed	100	mg/Nm ³
(ii) SO ₂	Not to exceed	kg/day.

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

<u>Sr.No.</u>	<u>Type of Fuel</u>	<u>Quantity</u>
.....		

- (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.	Cement Mill	36.0
2.	Rotary Packers	38.0
3.	Cement Mill Auxiliary	30.5

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 much 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 Fly Ash/Clinker & Cement 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 Cement 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.

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/Spent Oil	0.1 MT/Month	Shall be sent to CPCB/SPCB Authorized re-processor

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.
 - (ii) 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 21st August, 2012.**
12. **The applicant shall comply with the conditions stipulated in the Environment Clearance granted by Environment Department, GoM vide No. ENV 2008/CR-160/TC-1 dated 9.10.2009.**
13. The applicant shall implement mechanical close type transportation system for Clinker, Cement & mineral metal transporting trucks.
14. **The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.**
15. **The applicant shall submit the Operational bank guarantee of Rs.10/- Lakhs drawn in favor of RO MPCB Nagpur towards operation & maintenance of Pollution Control system to achieve the standards prescribed in Consent.**
16. Total capital investment of the industry is Rs.282.67/- Crore.


(Milind Mhaskar, IAS)
Member Secretary

To,
M/s. Reliance Cement Company Pvt. Ltd., (Phase-I),
(Formerly Known as M/s Reliance Cementation Pvt. Ltd.),
Plot No.J-2, MIDC Butibori, Nagpur, Dist. - Nagpur.

Copy to:

- 1) Regional Officer, MPC Board, Nagpur 2) Sub Regional Officer, MPC Board, Nagpur-II.
They are directed to obtain operational bank guarantee of Rs. 10.0/- Lakhs from the industry as per consent condition No.15 & submit the performance report along with the monitoring results within one month period and ensure the compliance of consent conditions.

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. 5,65,440/-	000626	17.02.2012	ICICI Bank

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