

MAHARASHTRA POLLUTION CONTROL BOARD

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

RED/LSI

Date: 09/10/2012

Consent No. BO/JD(APC) EIC NO- NM-4034-12/O/CC/MPCB/2012/10/0131
Consent to Establish 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 & Transboundary Movement) Rules, 2008.

[To be referred as Water Act, Air Act and HW (MH & TM) Rules respectively].

CONSENT is hereby granted to

M/s. Hindalco Industries Ltd.,
P.O. Box no.5, Plot No.2,
MIDC Industrial Area, Talaja A.V,
Navi Mumbai, Dist: Raigad.

located in the area declared under the provisions of the Water Act, Air act and Authorization under the provisions of HW(MH&TM) Rules and amendments thereto 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 - 30.06.2014.

2. The Consent is valid for the manufacture of -

| Sr. No. | Product | Maximum Quantity |
|---------|--|-------------------------|
| 1. | Aluminum Sheet, Coil, Plate, Molten Metal and Alloy pigs | 6600 MT/M or 220 MT/Day |

3. **CONDITIONS UNDER WATER ACT:**

- The daily quantity of trade effluent from the factory shall not exceed **58.0 m³.**
- The daily quantity of sewage effluent from the factory shall not exceed **42.0m³.**
- 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 | Suspended Solids | Not to exceed | 100 mg/l. |
| 3 | BOD 3 days 27 Deg. C. | Not to exceed | 100 mg/l. |
| 4 | COD | Not to exceed | 250 mg/l. |
| 5 | Oil & Grease | Not to exceed | 10 mg/l |
| 6 | Total Dissolved Solids | Not to exceed | 2100 mg/l. |
| 7 | Chlorides | Not to exceed | 600 mg/l. |
| 8 | Sulphate | Not to exceed | 1000 mg/l. |

- (iv) **Trade Effluent Disposal:** The treated effluent shall be sent to CETP. There shall not be any discharge outside the 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 27o C | Not to exceed | 100 mg/l. |

- (vi) **Sewage Effluent Disposal:** The treated domestic effluent shall be soaked in a soak pit, which shall be got cleaned periodically. Overflow, if any, shall be connected to sewerage system provided by MIDC or used on land for gardening / plantation only.

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

| Sr.No. | Type of waste | Quantity | Treatment & Disposal |
|--------|--|-------------|----------------------|
| 1 | Filtered material ceramic, Foam filter | 25 MT/Month | Sale |
| 2 | Oven debris | 275 MT/M | Sale |
| 3 | MS scrap and GI wires | 221 T/Year | Sale |
| 4 | Pre washed oil containers empty drums | 450 Nos/M | Sale |
| 5 | Aluminum Dross | 2175 T/Year | Sale |
| 6 | Wooden scrap | 100 T/Year | Sale |

(viii) **Other conditions:**

1. The industry shall monitor effluent quality regularly.
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 | 98 CMD |
| (ii) | Industrial processing | 113 CMD |
| (iii) | Industrial Cooling | 286 CMD |
| (iv) | Industrial Boiler/Cooling etc. | - -- CMD |
| (v) | Any other and gardening. | 55 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:
 - A) **Control Equipment:**
 - 1) Fumes extraction system followed by scrubber of sufficient capacity provided to all sources of gases emission and operated & maintained properly so as to achieve the following standards.
 - 2) Fume extraction system followed by dust collection system of sufficient capacity shall be provided to all sources of SPM/TPM.
 - 3) Industry shall provide adequate air pollution control equipments to control air emissions at all sources of secondary emissions.

- 4) Industry shall provide dust collector and bag filter to control air emissions at all sources of primary emissions.

B) Standards for Emissions of Air Pollutants:

| | | | |
|---|-----------------|---------------|------------------------|
| 1 | SPM/TPM | Not to exceed | 150 mg/Nm ³ |
| 2 | SO ₂ | Not to exceed | 1341.4 Kg/Day |

- i) The applicant shall observe the following fuel pattern:-

| Sr.No | Type of Fuel | Quantity |
|-------|--------------|--------------------------|
| 1 | Furnace oil | 12,000 Ltrs/Day |
| 2 | LSHS | 13,000 Ltrs/Day |
| 3 | PNG | 20000 Unit is in SCM/Day |

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

| Sr.No | Chimney attached to | Height in Mtrs |
|-------|-----------------------------|----------------|
| 1 | Hot mill | 22.86 |
| 2 | Cold mill-I | 22.86 |
| 3 | Cold mill-II | 22.30 |
| 4 | Melting and Holding furnace | 45 |
| 5 | Boiler | 30 |
| 6 | D.G.set | 8.70 |
| 7 | Recycling plant | 30 |
| 8 | New TL Electrolytic unit | 11.5 |

- (iii) 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.
- (iv) 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.

(v) **Other Conditions:**

- 1) The industry should not cause any nuisance in surrounding area.
- 2) The industry should monitor stack emissions and ambient air quality regularly.

(vi) **Conditions for DG Sets: -**

1. **Noise from DG Sets shall be controlled by providing acoustic enclosure or by treating the room acoustically.**
2. **Applicant should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room shall 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 shall be done at different points at 0.5 meters from acoustic enclosure/ room and then average.**

3. The Applicant should make efforts to bring down noise level due to DG Set, outside the premises, with ambient noise level requirements by proper setting and control measures.
4. Installation of DG Set must be strictly in compliance with recommendations of DG set manufacturer;
5. A proper routine and preventive maintenance procedure for DG Set shall be set and followed in consultation with the DG manufacturers, which would help to prevent noise levels of DG Sets from deteriorating with use.
6. The DG set shall be operated only in case of power failure. The applicant shall make arrangement for regular electrical power.
7. The Applicant shall not cause any nuisance in the surrounding area due to operation of DG sets.
8. In case of problems, the D.G. set shall not be operated until it is set back to satisfactory

6. CONDITIONS UNDER HAZARDOUS WASTE (MH & TM) RULES, 2008:

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


| Sr. No. | Type Of Waste | Quantity | UOM | Disposal |
|---------|---|-----------|------------|---|
| 1 | 4.1 Oily residue/emulsion | 44 | T/Year | At CHWTSDF |
| 2 | 5.1- Used/Spent oil | 1550 | KL/A | Reprocessing in house vacuum distillation unit and reused in the process or reprocessing through authorised reprocessor/recycler approved by CPCB/SPCB. |
| 3 | 5.2- Waste residue containing oil | 100 | T/Year | Sale to authorized party |
| 4 | 9.1- Lead slag (Battery) | 150 | Nos/Year | Sale to authorized party. |
| 5 | 15.1-Asbestos Containing materials | 350 | Kg/M | At CHWTSDF |
| 6 | 33.3 – Oil containers/Drums | 450 | Nos/Year | At CHWTSDF |
| 7 | 34.3- Chemical waste from waste water Treatment plant[ETP] | 1277.5 | T/Year | At CHWTSDF |
| 8 | 34.4- Oil and Grease skimming residue From ETP | 50 | T/Year | Sale to authorized party |
| 9 | 35.1-Filter and Filter materials, waste Filter ,filter material | 12 100 | T/M T/M | At CHWTSDF |
| 10 | Electronic waste/(E-waste) | 2 | T/Year | Sale to CPCB/MPCB authorised Reprocessor. |

- (ii) The authorization is here by granted to operate a facility for collection, storage, transport & 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 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.
 - (iv) 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.
 - (v) 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.
 - (vi) 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.
 - (vii) 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.
 - (viii) 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.
 - (ix) The applicant shall maintain good house keeping and take adequate measures for control of pollution from all sources so as not to cause nuisance to surrounding area / inhabitants.
9. 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.
10. This Board reserves the right to amend or add any conditions in this consent and the same shall be binding on the Applicant.

11. The consent is issued pursuant to the decision of Consent Appraisal Committee meeting of the Board held on 24/09/2012
12. This consent is issued in supersession of earlier consent vide No. BO/JD(APC)EIC NO-RD-2761-11/O/CC-CAC-170 date 18/01/2012
13. The Total Capital investment of industry is Rs.284.86 Crores.

For and On Behalf of the
Maharashtra Pollution Control Board,


(Rajeev Kumar Mittal, IAS)
Member Secretary

To,
M/s. Hindalco Industries Ltd.,
P.O. Box no.5, Plot No.2,
MIDC Industrial Area, Talaja A.V,
Navi Mumbai, Dist: Raigad

Copy to:

- 1) Regional Officer, Navi Mumbai, MPCB, Navi Mumbai.
- 2) Sub-Regional Officer, Talaja-MPCB, Navi Mumbai.
- 3) Chief Accounts Officer, MPCB, Mumbai

Received Consent fee of – as per revised consent fee GR dated 25.08.2011.

| Amount | D.D. No. | Date | Drawn on |
|-------------------|----------|------------|-------------------------|
| Rs. 5,64,828.84/- | 003954 | 25.04.2011 | IDBI |
| Rs. 100/- | 004194 | 02.06.2011 | IDBI |
| Rs. 11,54,558/- | 005205 | 15.10.2011 | IDBI |
| Rs. 30,000/- | 054706 | 16/05/2012 | Standard Chartered Bank |

4] Cess Branch, MPCB.