

MAHARASHTRA POLLUTION CONTROL BOARD

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Sion Circle, Sion (E).
Mumbai - 400 022

Red/L.S.I

Date: 04 Aug/2011

Consent No: BO/JDPAMS/O/EIC NO.NM-1989-10/CC - 120

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 & Transboundry Movement) Rules 2008

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

.....
CONSENT is hereby granted to

M/s Johnson Matthey Chemicals India Pvt. Ltd.
6A, MIDC Industrial Area, Talaja
Tal-Panvel, Maharashtra.

located in the area declared under the provisions of the Water Act, Air act and Authorization under the provisions of HW(M&H) 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: 28/02/2014
2. The Consent is valid for the manufacture of -

Sr. No.	Product Name	Maximum Quantity	UOM
1	Metal Nickel catalyst	105	MT/M
2	Chemical products & catalysts of Platinum, Palladium, Rhodium, Iridium, Osmium & Ruthenium, hetrocatalyst on charcoal, Alumina, Calcium, Silica and mineral base.	15	MT/M
3	Recovery of precious metal from reprocessing of received spent /used/scrap of precious metal containing catalyst & other material to produce precious metals as Platinum, Palladium, Rhodium, Iridium, Osmium & Ruthenium	100	MT/M
4	Sampling of spent precious metal catalysts & products containing Platinum, Palladium, Rhodium, Iridium, Osmium & Ruthenium	100	MT/M
5	Paste /powder /Ash containing precious metals & hydroxide of Fe, Ni, & Cu	1	MT/M
6	Solvent (Acetic Acid, acetone, Ethanol, Toluene, Hexane of more than 90% purity	1	MT/M
7	Nickel Sulphate (as Nickel) (Spent Nickel catalyst as a raw material)	10	MT/M
8	Recovered oil & Fat	55	MT/M

3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent from the factory shall not exceed 295.00M³.
(ii) The daily quantity of sewage effluent from the factory shall not exceed 4.00M³.

(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 degree C	Not to exceed	100 mg/l
5	COD	Not to exceed	250 mg/l
6	Nickel (as Ni)	Not to exceed	0.50 mg/l
7	% of Sodium	Not to exceed	60 % mg/l

- (iv) **Trade Effluent Disposal:** The treated effluent shall be recycled to the maximum extent and remaining shall be connected to CETP.

- (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 disposed into MIDC drain.

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

Sr. No.	Type Of Waste	Quantity	UOM	Treatment	Disposal
01	Packing Material	100	MT/A	—	Sale

- (viii) **Other Conditions:** Industry should 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 amendment Rules, 2003 there under

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

- (i) Domestic purpose ... 7.00 CMD
(ii) Water gets Polluted & Pollutants are Biodegradable ... 288.00 CMD
(iii) Water gets Polluted, Pollutants are not Biodegradable & Toxic ... 0.00 CMD
(iv) Industrial Cooling, spraying in mine pits or boiler feed ... 32.00CMD
(v) Agricultural and Gardening ... 3.00 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. Industry shall provide scrubber of sufficient capacity to reactor to control the emissions.

b. Standards for Emissions of Air Pollutants:

(i) SPM/TPM	Not to exceed	150.0mg/Nm ³
(ii) SO ₂	Not to exceed	289.0 Kg/day
(iii) Acid mist	Not to exceed	35.0 mg/Nm ³

6. Conditions for D.G. Set:

- a. Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
- b. 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 meters from acoustic enclosure/room and then average.
- c. 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.
- d. 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.
- e. Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
- f. 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.
- g. D.G. Set shall be operated only in case of power failure.
- h. The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set

7. Standards for Stack Emissions:

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

Sr. No.	Type Of Fuel	Quantity	UOM
1	Furnace Oil	3.22	T/day
2	HSD	150.00	Lit/Hr
3	LPG	58.00	Kg/Hr

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

Sr. No.	Chimney Attached To	Height in Mtrs.
1	Boiler-1 Boiler-2 & Boiler-3	37.00
2	Acid scrubber	20.00
3	Flash dryer	12.00
4	D.G. set (750 KVA)	5.47
5	Hot air generator	14.00
6	Reducer flue gas	12.00
7	Ammonia scrubber	20.00
8	Decarbonised section	30.00

- (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.
- (vi) **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.

8. CONDITIONS UNDER HAZARDOUS WASTE (MANAGEMENT, HANDLING & TRANSBOUNDARY MOVEMENT) RULES, 2008:

- (i) The Industry shall handle hazardous wastes as specified below.

Sr. No.	Type Of Waste	Quantity	UOM	Disposal
1	B-6 As per Schedule II Wet Nickel Cake	75.0	MT	Sale to authorized party
2	D-4 Schedule II, B-1150 Schedule III	20	MT	Sale to authorized party
3	5.2 Wastes/residue containing oil	0.60	MT	CHWTSDF
4	20.2 Spent solvents	25.00	MT	sale to authorised party/CHWTSDF
5	5.1 Used /spent oil	1.00	MT	sale to authorised party
6	33.3 Discarded containers / barrels / liners			sale to authorised party
7	D-6 Organic waste	20	MT	sale to authorised party
8	B-6 As per Schedule II Wet Nickel Cake (Distillation residue)	1260 dry wet	MT	sale to authorised party/CHWTSDF

- (ii) Treatment: - NIL

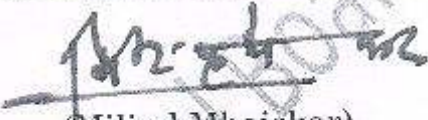
9. Whenever due to any accident or gas leakage or other unforeseen act or even such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Collector, Directorate of Industry, Safety and Health, Police Station, Fire Brigade, Directorate of Health Services, Department of Explosives, Board and Local Body and the production process should be stopped by taking all necessary safety measures. The industry shall also monitor the emission and ensure that the emissions do not cause any harm or nuisance in the surrounding. The industry should not restart the process without permission of the Board and other statutory organization as require under the law.

10. Industry shall comply with following additional conditions:

- i. The applicant shall maintain good housekeeping and take adequate measures for control of pollution from all sources so as not to cause nuisance to surrounding area / inhabitants.
- ii. The applicant shall bring minimum 33% of the available open land under green coverage/ tree plantation.
- iii. Solid waste – The non hazardous solid waste arising in the factory premises, sweepings, etc., be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal to dumping ground.
- iv. The applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by he applicant to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms & conditions of this consent regarding pollution levels.
- v. 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.
- 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.
- vii. The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.
- viii. The firm shall submit to this office, the 30th day of September every year, 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.
- ix. As inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- x. The applicant shall install a separate electric 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.
- Xi. 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

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.

- xii. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
11. This consent shall not be construed as any exemption from obtaining necessary No Objection Certificate from other Government agencies as may deemed fit necessary.
12. This consent is issued as per the decision taken in the meeting of the Consent Committee of the Board held on 03/06/2011.
13. The Capital investment of the industry is Rs. 41. 55 Crores.


(Milind Mhaiskar)
Member Secretary

To,

M/s Johnson Matthey Chemicals India Pvt. Ltd.
6A, MIDC Industrial Area, Talaja
Tal-Panvel, Maharashtra

Copy to :

- 1) RO, Navi Mumbai /SRO, Talaja
- They are directed to ensure the compliance of consent conditions.
- 2) CAO/Cess Branch/Master file

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	147000/-	614854	24 May 2010	HSBC Bank
2	3000/-	661944	21 Nov 2010	Dena Bank