

No.J-11011/154/2016-IA II (I)
Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

Indira Paryavaran Bhawan
Jor Bagh Road, Delhi - 3
Dated: 29th August, 2017

To,

M/s Hindustan Urvarak & Rasayan Ltd (HURL)
Core-2, 2nd Floor, SCOPE Minar,
Laxmi Nagar, District Centre,
Delhi - 92

**Sub: Ammonia - Urea Fertilizer Project at Sindri, District Dhanbad (Jharkhand) by
M/s Hindustan Urvarak & Rasayan Ltd (HURL) - Environmental Clearance - reg.**

Ref: Your online proposal No. IA/JH/IND2/54024/2016 dated 8th May, 2017

Sir,

This has reference to your online proposal No. IA/JH/IND2/54024/2016 dated 8th May, 2017 submitting the project documents namely, EIA/EMP Report along with Public consultation details on the above subject matter.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal for setting up Ammonia - 2200 MTPD and Urea - 3850 MTPD Fertilizer Project at Sindri, Teshsil Jharia-Cum-Jorapokhar-Cum Sindri, District Dhanbad (Jharkhand) promoted by M/s Hindustan Urvarak & Rasayan Ltd (HURL).

3. The details of the project are as under:-

(a) Proposed products

S. No.	Products	Quantity(TPA)
1	Ammonia	2200 MTPD
2	Urea	3850 MTPD

(b) Storage facilities

S. No.	Facility	Capacity
1	Ammonia Storage (Atm.)	(2x5000) MT
2	Silo	40000 MT
3	Empty Bag Storage	2.0 Million
4	Bagged Storage	1000 MT
5	Bagging Plant	(6+1) Slats of 60 MTPH each

4. Existing land area 750 acres shall be used and no additional land shall be required for the proposed project. The estimated project cost is Rs. 5825.27 crore environmental pollution control measures is Rs.200 crore and the Recurring cost (operation and maintenance) will be about Rs.5 crore per annum. Total Employment will be 400 persons as direct and 1500 persons indirect during construction & operation.

5. Total water demand for the project is estimated to be 26400 cum per day (includes process water requirement of 20664 cum per day), which is proposed to be met from Damodar river.

Total waste water generated would be 2856 cum per day, which is proposed to be utilized for horticulture after treatment and thus the project conforming to the Zero Liquid Discharge.

Power requirement will be 23 MW and will be met from GTG (2x15 MW ISO rating). Proposed unit shall have 1(One) DG sets of 2000 KVA capacity and are used as standby during power failure. Stack of 8.5 m will be provided as per CPCB norms to the proposed DG sets of 2000 KVA, which will be used as standby during power failure. NG will be available for the proposed project through GAIL's Jagdishpur Phulpur-Haldia pipeline.

Urea shall be produced in the form of need coated prilled Urea. Total requirement of neem oil has been envisaged to be 56.16 Kg/hr.

NOx Emission shall be reduced by installation of low NOx burner and conc. Of <1 µg/m³ of have been calculated for incremental GLC.

Spent catalyst shall be disposed off through registered recyclers. The used resin, active carbon and sand from water treatment plant (pretreatment, DM & Condensate polishing unit) will be disposed off as per the standard practices (or land-fill procedure). Bio-degradable waste generated from office, canteen & township shall be sent to composting yard for its use as manure in green development & maintenance.

6. There are no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/ Elephant Reserves and Wildlife Corridors etc. within 10 km distance of the project site. Damodar River is flowing at a distance of 2.0 km from the project site.

7. ToR was issued on 12th July, 2016. Public Hearing for the proposed project was conducted by the Jharkhand State Pollution Control Board on 24th April, 2017.

8. Chemical Fertilizer units are listed under category 'A' of item 5(a) of the Schedule to the EIA Notification, 2006 and appraised at Central level.

9. The proposal was considered by the Expert Appraisal Committee (Industry-2) in its 24th meeting held during 14-16 June, 2017. The project proponent and the EIA Consultant namely M/s Projects & Development India Ltd, have presented EIA/ EMP report as per the ToR. EAC found the EIA/ EMP Report to be satisfactory and in consonance with the presented ToRs. The Committee has recommended the proposal for grant of environmental clearance.

10. Based on the information submitted by the project proponent and recommendation of EAC (Industry-2), the Ministry of Environment, Forest and Climate change hereby accords environmental clearance to project '**Ammonia Urea Fertilizer Project**' (**Ammonia - 2200 MTPD, Urea - 3850 MTPD Fertilizer Project at Sindri, Teshsil Jharia-cum-Jorapokhar-cum Sindri, District Dhanbad (Jharkhand) promoted by M/s Hindustan Urvarak & Rasayan Ltd (HURL)**)' under the provisions of the EIA Notification, 2006, and amendments therein, subject to the compliance of the specific and general conditions as under:

A. Specific Conditions

- (i) Emissions limits for the pollutants from the DG sets and the stack height, shall be in conformity with the extant statutory regulations and/or the CPCB guidelines in this regard.
- (ii) To control source emissions, scrubber and/or other suitable pollution control device shall be installed to meet the prescribed Particulate Matter emission norms of 50 mg/Nm³, and also the NAAQS.



- (iii) Fresh water requirement shall not exceed 5.36 cum/ton of Urea production. Fresh water shall be sourced from Damodar Ganga only after the required permission from the concerned authority. During construction phase, ground water may be used after prior permission in this regard from the concerned regulatory authority.
- (iv) As already committed by the project proponent, no waste/treated water shall be discharged outside to ensure ZLD. The effluent discharge, if any, shall meet the standards for 'Nitrogenous Fertilizer Industry' prescribed under the Environment (Protection) Rules, 1986.
- (v) The project proponent shall develop greenbelt in an area of 33% i.e., nearly 132 acres out of 400 acres of plant area of the project. The greenbelt of 30 m width around periphery shall be provided.
- (vi) 5000 trees per year in 5 year shall be planted in nearby villages with the consultation of the villagers. Survival rate of plants shall be reported to RO, MoEF&CC in 6 monthly compliance report.
- (vii) All the commitments made during the Public Hearing/Public Consultation meeting held on 24th April, 2017 shall be satisfactorily implemented and adequate budget provision shall be made accordingly.
- (viii) At least 2.5 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment (ESC) based on local needs and action plan with financial and physical breakup/details shall be prepared and submitted to the Ministry's Regional Office at Ranchi. Implementation of such program shall be ensured accordingly in a time bound manner.
- (ix) A regular environment manager having post graduate qualification in environmental sciences/ environmental engineering to be appointed for looking after the environmental management activities of the proposed plant.
- (x) Continuous online (24x7) monitoring system for emissions and effluent generation shall be installed for flow/discharge measurement and the pollutants concentration within the plant. Data shall be uploaded on company's website and provided to the respective RO of MoEF&CC, CPCB and SPCB.
- (xi) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.
- (xii) Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- (xiii) Storage of hazardous raw material shall not exceed more than 7 days.
- (xiv) Urea dust shall be controlled by prescribed standard technique.
- (xv) In Urea Plant, particulate emissions shall not exceed 50 mg/Nm³. Monitoring of Prilling Tower shall be carried out as per CPCB guidelines.



- (xvi) The levels of PM10 (Urea dust), SO₂, NO_x, Ammonia, Ozone and HC shall be monitored in the ambient air and displayed at a convenient location near the main gate of the company and at important public places. The company shall upload the results of monitored data on its website and shall update the same periodically. It shall simultaneously be sent to the Regional office of MoEF&CC, the respective Zonal office of CPCB and the SPCB.
- (xvii) In plant, control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fugitive emissions shall be controlled by providing closed storage, closed handling & conveyance of chemicals/materials, multi cyclone separator and water sprinkling system. Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored. The emissions shall conform to the limits stipulated by the SPCB.
- (xviii) The company shall obtain Authorization for collection, storage and disposal of hazardous waste under the Hazardous Waste (Management, Handling and Trans-Boundary Movement) Rules, 2016 and amended as on date for management of Hazardous wastes. Measures shall be taken for fire fighting facilities in case of emergency.
- (xix) Provision shall be made for the housing for the construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile sewage treatment plant, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment.

B. General conditions

- (i) The project authorities shall strictly adhere to the stipulations made by the State Pollution Control Board (SPCB), State Government and any other statutory authority.
- (ii) No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- (iii) The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.
- (iv) The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 18th November, 2009 shall be followed.
- (v) The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).

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- (vi) The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.
- (vii) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.
- (viii) The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing shall be implemented.
- (ix) The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.
- (x) The company shall undertake all eco-developmental measures including community welfare measures for overall improvement of the environment.
- (xi) A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- (xii) The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.
- (xiii) A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, ZilaParisad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.
- (xiv) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status reports shall be posted on the website of the company.
- (xv) The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.

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(xvi) The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at <http://moef.nic.in>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.

(xvii) The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.

11. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

12. The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.

13. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Water Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.

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29/8/2017
(S K Srivastava)
Scientist E

Copy to:-

1. The Secretary, Department of Environment, Govt. of Jharkhand, **Ranchi** (Jharkhand)
2. The APCCF (C), MoEF&CC, Regional Office (ECZ), Bungalow No. A-2, Shyamali Colony, **Ranchi** - 834002 (Jharkhand)
3. The Chairman, Central Pollution Control Board PariveshBhavan, CBD-cum-Office Complex, East Arjun Nagar, **Delhi** - 32.
4. The Chairman, Jharkhand Pollution Control Board, Town Administrative Building, HEC, Dhurwa, **Ranchi**- 824004 (Jharkhand)
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhavan, Jorbagh Road, **New Delhi**
6. Guard File/Monitoring File/Record File

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