

COMPLIANCE REPORT

(MoEF & CC File No J11011/154/J-11011/2016-IAII (I) dated 29/08/2017)

For the period

April 2018 – September 2018

Submitted

to

MoEF&CC, Regional Office (ECZ), Ranchi

Ammonia Urea Fertilizer Plant

(2200MTPD Ammonia & 3850MTPD Urea)

SINDRI

December 2018



हिंदुस्तान उर्वरक एवं रसायन लिमिटेड
HINDUSTAN URVARAK & RASAYAN LTD.
(A joint Venture of NTPC, CIL, IOCL, FCIL & HFCL)



Hindustan Urvarak&Rasayan Limited

(A Joint Venture of NTPC, CIL, IOCL, FCIL & HFCL)

Office of The Project Head, Sindri Project, HURL

Old FCIL Office Complex, PO- Sindri,

Dhanbad Jharkhand-828122, Tel:-0326-2245454

GST Reg. No.: - 20AADCH9368N1Z6

Ref. No.: HURL/SND/18-19/

Date: 20/12/2018

Sri Rajeev Ranjan,

Scientist D

Ministry of Environment, Forest and Climate Change,

Regional Office (ECZ), Bungalow No. A-2, Shyamali Colony,

Ranchi – 834002.

Subject: Ammonia (2200 MTPD) Urea (3850 MTPD) Fertilizer Project at Sindri in District Dhanbad, Jharkhand of M/s Hindustan Urvarak&Rasayan Limited (HURL)-Compliance Report for Oct-March, 2018.

Ref: (i) MoEF&CC, Environmental Clearance Letter No. J11011/154/J-11011/2016-IAII (I) dated 29.08.2017.

Dear Sir,

With reference to the subject as mentioned above, please find attached herewith the compliance report for the period April- September 2018.

Yours faithfully

(M C Karan)

20/12/2018

Additional General Manager & Project Head

Hindustan Urvarak&Rasayan Ltd. (HURL)

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Telefax – 0326-2245454

COMPLIANCE OF EC CONDITIONS FOR THE PERIOD April'18 – September'18

| Sl. No. | COMPLIANCE CONDITIONS | Status |
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| A | SPECIFIC CONDITIONS | |
| i) | Emissions-limits for the pollutants from the Diesel Generator Sets and the stack height shall be in conformity with the extant statutory regulations and/or the CPCB guidelines in this regard. | The uninterrupted electricity supplied by JBVNL in the old FCIL plant premises is being used for ongoing construction purpose. In the proposed Ammonia- Urea Fertilizer Project at Sindri. The emission norms shall be met by using New Generation DG sets during operating phase of the plant. |
| 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/Nm ³ , and also the NAAQS. | This has been addressed in the Feasibility Report of the Project and shall be complied with in the plant during operation. |
| iii) | Fresh water requirement shall not exceed 5.36 cum/ton of Urea production. Fresh water for plant operation shall be sourced from Damodar River 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. | The water supply through existing FCIL's pump house from Damodar River to project site is to be used for the construction activities. At present, about 20KL/day water is required for dust suppression during site preparation activities. No ground water withdrawal is envisaged during construction phase. 6.6 MGD water allocation letter received from DVRRRC. Fresh water requirement shall not exceed 5.36 cum/ton of Urea production and the same has been included in the feasibility Report of the Project. |
| 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. | The Project is based on ZLD concept and there will be no discharge outside the project boundary. |
| 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. | A budget to be allocated for development of green belt in 33% area around periphery is under active consideration of the management. The conditions for provision of Green Belt will be complied with and will be in place by the time of Commissioning of the Plant. |
| vi) | 5000 trees per year in 5 year shall be planted in nearby villages with the | Plantation of trees in nearby villages will be taken up as reiterated by undertaking of |



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| | consultation of the villagers. Survival rate of plants shall be reported to RO, MoEF&CC in 6 monthly compliance reports. | Project Proponent submitted with Compliance Report April 2018. |
| vii) | All the commitments made during Public Hearing/Public Consultation meeting held on 24 th April, 2017 shall be satisfactorily implemented and adequate budget provision should be made accordingly. | All the commitments made during Public Hearing/Public Consultation meeting held on 24 th April, 2017 shall be satisfactorily implemented and adequate budget provision will be made by the project proponent 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. | ESC programme will be carried out and adequate budget will be provided by the Project. Detail action plan along with budget will be provided once the plant becomes operational. |
| 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. | The EC conditions relating to establishment of Environmental Cell have been complied with the following arrangements for Environment Cell have been implemented: At the Project Level: Nodal Environmental Officer: Mr. O. P. Kushwaha, Manager, Reporting to Project Head Mr. M C Karan. |
| x) | Continuous online (24 X 7) 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. | This will be implemented during operation phase. |
| xi) | The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms. | This has been addressed in the Feasibility Report and RRA conducted for the Project and recommendation shall be complied with in the plant during operation. |
| xii) | Occupational health surveillance of the workers shall be done on a regular basis | All the construction workers are ensured to be equipped with PPEs such as helmets, hand |



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| | and records maintained as per the Factories Act. | gloves, boots etc. before entering into construction site. Regular health check-up/monitoring of the construction labourers in being done by LSTK contractor and records are being maintained for the same. The same shall also be complied with in the plant during operation phase. |
| xiii) | Storage of hazardous raw material shall not exceed more than 7 days. | The raw material required for construction activities are being stored in the designated place isolated from the construction area. The storage of raw materials has been addressed in the Feasibility Report and EIA report of the Project and shall be complied with in the plant during operation. |
| xiv) | Urea dust shall be controlled by prescribed standard technique. | This has been addressed in the Feasibility Report and EMP of the Project and shall be complied with in the plant during operation. |
| xv) | In Urea Plant, particulate emissions shall not exceed 50mg/Nm ³ . Monitoring of Prilling Tower shall be carried out as per CPCB guidelines. | This has been addressed in the Feasibility Report and EMP of the Project and shall be complied with in the plant during operation. |
| xvi) | The levels of PM10 (Urea dust), SO ₂ , 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 MoEF&CC and SPCB. | Environmental Monitoring w.r.t. Air, Water and Noise during construction phase is being carried out by the CPCB recognised Laboratory in consultation with JSPCB (<i>Monitoring Report attached as Annexure- I</i>) since April 2018. The results will be uploaded on HURL's website and updated periodically. Simultaneously, it will also be sent to the Regional office of MoEF&CC, the respective Zonal office of MoEF&CC and JSPCB. |
| 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 | This has been addressed in the Feasibility Report and EMP of the Project and shall be complied with in the plant during operation. The water sprinkling is being done on regular basis for fugitive dust suppression in and around construction site. Air Quality is being monitored in work zone environment as per |



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| | zone environment, product, raw materials storage area etc. shall be regularly monitored. The emissions shall conform to the limits stipulated by the SPCB. | monitoring plan for assessment of pollution level during construction phase. The plan has been prepared in consultation with JSPCB and HURL officials. |
| 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. | This has been addressed in the Feasibility Report and EMP of the Project and shall be complied with in the plant during operation. |
| 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. | M/s Technip is LSTK contractor responsible for this activity. M/s HURL has earmarked old buildings of HFCL in the neighbouring area for housing of labourers during construction phase. Medical healthcare at construction site is being provided through an ambulance and experienced first aider in it. Sanitation facility at site comprised of toilets in the Old FCIL Buildings as well as mobile toilets. Drinking water requirement is being met through bottled water supplied by local vendors however; there is adequate supply of potable water by existing drinking water network of FCIL. Biodegradable construction wastes such as leaves/branches of trees/bushes at site cut during site preparation are being collected and dumped in area earmarked for construction of composting pits. Excavated soils have been collected in the form of heaps away from construction site to dispose suitably in the low lying area within FCIL premises. |
| 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. | HURL shall strictly comply with the conditions laid by JSPCB, Jharkhand State Government and any other statutory authority during construction and operation phase of the plant. |
| ii) | No further expansion or modifications in | This condition will be complied with during |



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| | the plant shall not be carried out without prior approval of the MoEF&CC. In case of deviations or alterations in the project proposal from those submitted to MoEF&CC 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. | project implementation phase. |
| 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. | The locations of ambient air quality monitoring have been decided in consultation with the Jharkhand State Pollution Control Board (JSPCB) and HURL officials for monitoring of Air Quality during construction phase. 6Nos. of AAQMS have been installed in the project area out of which two stations are selected in up-wind, South-East and two stations are selected in down-wind, North-West directions. |
| iv) | The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated is November, 2009 shall be followed. | All efforts are being made to contain the fugitive dust emission within the standard limits at construction site. This will also be complied with during operation phase. |
| 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). | All efforts are being made to contain the noise levels within the standard limits at construction site during day time i.e. single shift. All construction equipment deployed at site is ensured to have acoustic hoods and silencers/enclosures on sources of noise generation. The construction workers at site are equipped with ear muffs. This condition will also be complied with during operation phase of the plant. |
| 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. | This condition will be complied with as given in the compliance report from Apr-Sept'17. |
| vii) | Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical | This condition will be complied with during operation phase of the plant. |



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| | any, were received while processing the proposal. | |
| 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. | The copy of Environment Clearance letter issued by MoEF&CC have been uploaded to company website hurl.net.in and also advertised in the local editions of English and Hindi dailies. |
| 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 bymail) to the respective Regional Office of MoEF&CC, the respective Zonal Office of Environmental Clearance and six monthly compliance status reports shall be posted on the website of the company. | Environmental monitoring work has commenced from April 2018 by M/s PDIL and the results of monitoring data have been provided in the six monthly compliance report, November 2018 (<i>Annexure-1</i>) |
| xv) | The environmental statement for each financial year ending 31 st March in Form-Vas 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. | The Environment Statement will be submitted after its approval by the management. |
| 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 | Environment Clearance granted by Ministry vide MoEF&CC letter no J11011/154/J-11011/2016-IAII(I) DATED 29/08/2017 has already been updated on Company website hurl.net.in . The same was also advertised on 16/09/2017 on page 16 in Hindustan (Hindi) and page 13 in Hindustan Times (English) published from Ranchi, Jharkhand and submitted along with the Compliance Report April 2018. |



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| | 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. | Date of Financial Closure: 26.04.2018 Date of final approval of the project: 14.06.2017 Date of Start of the project: 01.04.2018 |

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20/12/2015

(M C Karan)

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