

Recd 2/12/15



## State Level Environment Impact Assessment Authority, Jharkhand.

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Letter No.-EC/ SEIAA / 2014-15/516/ 2014/1929

Ranchi, Date: 23/11/15

To: **Sri Mahabir Prasad Jalan**  
Ramkrishna Forgings Limited,

Plant III & IV,

Plot M- 15,16, NS 26, Phase VII,

Industrial Area, Adityapur, Jamshedpur- 832109

Sub: Environmental Clearance for the project "Ramkrishna Forgings Ltd. at Village – Bholadih, Tehsil- kolebira, Dist.- Saraikela Kharsawan, Jharkhand."

Sir,

It is in reference to the project "Ramkrishna Forgings Ltd. at Village – Bholadih, Tehsil- kolebira, Dist.- Saraikela Kharsawan, Jharkhand" submitted by you for seeking prior Environmental Clearances (EC).

The proposal was appraised by State Level Expert Appraisal Committee (SEAC) and recommended for grant of Environmental Clearance in its meeting held on 07<sup>th</sup> to 11<sup>th</sup> October, 2015.

Ramkrishna Forgings Ltd at present operates Forging Plant of capacity 29100 TPA with matching finishing line, at Plant – V, Village: Bholadih, Kolebira, Dist. Saraikela - Kharsawan, Jharkhand. For the proposed expansion (Existing: 24.75 Acres) no additional land is required. Latitude and longitude of the project site is 22° 47' 50" N and 86° 01' 34" E respectively. No Forest land is involved. No national park/wild life sanctuary/ecologically sensitive area located within 10 km radius of the project site. The total cost of the project is Rs. 594.72 Crores. The power requirement is 20 MW and water requirement 495 m<sup>3</sup>/day (95 m<sup>3</sup>/day existing & 400 m<sup>3</sup>/day additional).

The status of existing and proposed expansion units are as given below:

### Existing Units:

| Plant/Unit  | Item of manufacture             | Existing Capacity per Annum |
|---|---------------------------------|-----------------------------|
| Forging unit with machining and finishing – Press line installed: 1x12500 T + 1 x 4500 T and 1 x 3150 T | Front Axle Beam                 | 14500 TPA                   |
|   | Crank Shaft                     | 7800 TPA                    |
|   | Stub Axle                       | 5300 TPA                    |
|   | Connecting Rod/<br>Steering Arm | 1500 TPA                    |
|   | <b>Total: Forgings –</b>        | <b>29100 TPA</b>            |

### Proposed Units

| Plant Facilities - addition   | Product - addition              | Capacity - addition per Annum |
|---|---------------------------------|-------------------------------|
| Forging unit with machining and finishing – Press line addition: 1x12500 T and 1 x 6300 T | <b>Machinery &amp; Forgings</b> | <b>50900 TPA</b>              |
| Matching Propane based SQF Heat Treatment and Machining Line                              |                                 |                               |

### Final Capacity

| Product Name   | Wt. in TPA       |
|--|------------------|
| Various Forged, Machined & Finished components<br>( FA Beam<br>Crank Shaft Forged<br>Stub Axles<br>Connecting Rod<br>IADB Knuckle<br>Optimized Knuckle<br>Crank Shaft) | 80000 TPA        |
| <b>Total</b>   | <b>80000 TPA</b> |

State Level Environment Impact Assessment Authority (SEIAA), Jharkhand in its meeting held on 14.11.2015 discussed the project proposal along with recommendations made by SEAC and decided to grant EC to the project.

Following the decision of SEIAA, as mentioned above, Environmental Clearance is hereby issued to the “**Ramkrishna Forgings Ltd. at Village – Bholadih, Tehsil- kolebira, Dist.- Saraikela Kharsawan, Jharkhand**” alongwith the following conditions-

#### A. Specific Conditions

1. This Environmental Clearance is valid subject to the following condition below –  
That this project has-
  - a. Obtained all legal rights to operate at concerned place.
  - b. Complied with all existing concerned laws of the land and
  - c. Complied with the decisions of SEIAA on the issue of Environmental Clearance till date.
2. As proposed, only propane gas will be used as fuel to reduce particulate emissions.
3. Efforts shall be made to reduce PM levels in the ambient air. Ambient air quality monitoring stations shall be set up in the downwind direction as well as where maximum ground level concentration of PM are anticipated in consultation with the State Pollution Control Board (SPCB). Data on ambient air, stack and fugitive emissions shall be submitted to the SEIAA Office JSPCB and CPCB.

4. On-line ambient air quality monitoring and continuous stack monitoring facilities for all the stacks and sufficient air pollution control devices shall be provided. The emissions of particulate matter from various process units shall conform to the standards prescribed by the concerned authorities from time to time.
5. The company shall monitor the raw and treated wastewater quality for trace metals and air quality at sources and ambient including routine parameters and the reports shall be submitted regularly with six monthly compliance report.
6. The company shall connect the pollution control equipment to DG set to ensure operation of these equipments during power failure. The company shall also provide interlocking system with the process equipment so that the plant automatically stops in case the pollution load exceeds the guaranteed limits.
7. The industry shall ensure that the treated effluent and stack emissions in the unit are within the norms stipulated under the EP Rules or JSPCB whichever is more stringent. In case of process disturbances/failure of pollution control equipments adopted in the unit, the respective unit shall be shut down and shall not be restarted until the control measures are rectified to achieve the desired efficiency.
8. In-plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Dust suppression and dust extraction systems shall be provided to control fugitive emissions at material handling points. Fugitive emissions shall be controlled by providing closed storages, water sprinkling system, etc. to arrest the suspended particles.
9. Secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines / Code of Practice issued by the CPCB shall be followed. The emission standards issued by the Ministry in May, 2008 shall be followed.
10. Vehicular pollution due to transportation of raw material and finished product shall be controlled. Proper arrangements shall also be made to control dust emissions during loading and unloading of the raw material and finished product.
11. Total water requirement from ground water source shall not exceed 495 m<sup>3</sup>/day. All the wastewater generated from the process shall be treated in the effluent treatment plant (ETP) followed by in Reverse Osmosis (RO) plant and recycled and reused in the process and/or used for dust suppression, green belt development and for various activities at the project site. No effluent shall be discharged outside the premises. 'Zero' discharge shall be strictly adopted.
12. Prior 'permission' for the drawl of 495 m<sup>3</sup>/day water from ground water source shall be obtained from the concerned department and a copy of the letter shall be submitted to this office within 3 months of issue of the environment clearance.
13. As proposed, all the metal scrap, iron oxide and dust shall be disposed for recycle / reuse in furnaces. All the other solid/hazardous waste generated including rejects from Reverse Osmosis (RO) plant shall be properly utilized or disposed off in environment friendly manner. The domestic waste including sewage sludge shall be treated biologically and used as manure for green belt. Used/spent oil shall be sold to authorized recyclers as per the Hazardous Waste (Management, Handling & Transboundary Movement) Rules 2008 and subsequent amendments.
14. A time bound action plan shall be submitted to reduce solid waste, its proper utilization and disposal.
15. Proper handling, storage, utilization and disposal of all the solid waste shall be ensured and regular report regarding end use of solid/hazardous waste shall be submitted to the SEIAA, JSPCB and CPCB.

16. Green belt shall be developed in 33% in and around the plant premises to mitigate the effects of fugitive emissions all around the plant as per the CPCB guidelines.
17. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Sector shall be implemented and progress report shall be submitted to MOEF/CPCB.
18. Proper care shall be taken in structural design to protect against earthquake if the site falls under earthquake zone and implemented during construction phase.
19. The company shall provide housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

#### **B. General conditions**

1. The project authorities must strictly adhere to the stipulations made by the Jharkhand State Pollution Control Board (JSPCB) and the State Government.
2. No further expansion or modifications in the plant shall be carried out without prior approval of the concerned authority/ SEIAA, Jharkhand .
3. The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19th May, 1993 and standards prescribed from time to time. The Jharkhand State Pollution Control Board (JSPCB) may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location. At no time, the emission levels shall go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.
4. At least four ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of PM, SO<sub>2</sub> and NO<sub>x</sub> are anticipated in consultation with the State Pollution Control Board. Data on ambient air quality and stack emission shall be regularly submitted to this office and JSPCB / CPCB once in six months.
5. Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.
6. The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
7. The company shall undertake rainwater harvesting measures by collecting the rainwater through drains. The water collected shall be connected to raw water pipeline for reuse in the plant. The company shall provide proper drainage system for rainwater to prevent water logging within and in the vicinity of the plant.
8. Occupational Health Surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act. OHSAS certification should be obtained within two years
9. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA / EMP report and during the public hearing meeting. Further, the company must undertake socio-economic development activities in the


surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.

10. A separate environmental management cell with suitable qualified personnel should be set up under the control of a senior Executive, who will report directly to the Head of the organization.
11. Adequate funds shall be earmarked towards capital cost and recurring cost/annum for the environmental pollution control to implement the conditions stipulated by the SEIAA as well as the State Government. An implementation schedule for complying with all the conditions stipulated herein shall be submitted to the JSPCB. The funds so provided shall not be diverted for any other purposes.
12. The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Jharkhand State Pollution Control Board, Ranchi. PP shall carry out CSR activities as per Government Guidelines (%of Profit / turnover).
13. A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad / Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions / representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.
14. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the SEIAA Office, CPCB and the JSPCB. The criteria pollutant levels namely; PM, SO<sub>2</sub>, NO<sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
15. The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the SEIAA, the respective Zonal Office of CPCB and the JSPCB. The Zonal Office of CPCB / JSPCB shall monitor the stipulated conditions.
16. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent 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 alongwith the status of compliance of environmental conditions and shall also be sent to the respective Offices.
17. Project authorities shall inform the SEIAA Office, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.

### **C. Other points**

1. The Authority reserves the right to add any new condition or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of Authority or for that matter for any other Administrative reason.
2. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
3. In case of any deviation or alteration in the project proposed from those submitted to SEIAA, Jharkhand for clearance, a fresh reference should be made to SEIAA to assess the adequacy of the conditions imposed and to incorporate any new conditions if required.

4. The above stipulations would be enforced among others under the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/ High Court of Jharkhand and any other Court of Law relating to the subject matter.
5. Any Appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

  
Member Secretary  
State Level Environment Impact  
Assessment Authority, Jharkhand.