



State Level Environment Impact Assessment Authority, Jharkhand.

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Letter No.- EC/ SEIAA/ 2018-19/2083/2018/710

Ranchi, Date: 08/11/2019.

To: **Shri Rahul Kumar Bagaria,**
(Senior GM - Finance),
M/S 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 “Expansion of Existing Auto Components – 3000 TPA, Engineering Items – 600 TPA, Export Items (Auto Components + Engineering Items) 754000 Nos./yr. to various Forgings 60000 TPA for M/s Ramkrishna Forgings Limited – Plant 1 at Plot No.- M5 & M6 , 6th Phase, Adityapur Industrial Area, Gamhria, Dist. : Saraikela-Kharsawan, Jharkhand” (Proposal No. : SIA/JH/IND/25007/2019)

Ref: Your letter no. RKFL/JSR/19-20/65 dated : 11.10.2019.

Sir,

It is in reference to the project “Expansion of Existing Auto Components – 3000 TPA, Engineering Items – 600 TPA, Export Items (Auto Components + Engineering Items) 754000 Nos./yr. to various Forgings 60000 TPA for M/s Ramkrishna Forgings Limited – Plant 1 at Plot No.- M5 & M6 , 6th Phase, Adityapur Industrial Area, Gamhria, Dist. : Saraikela-Kharsawan, Jharkhand” submitted by you for seeking prior Environmental Clearances (EC).

The proposal was considered by the committee in its 63rd meeting held on 05-06.11.2018 and recommended for ToR. ToR was granted by SEIAA vide letter no. EC/SEIAA/2018-19/2083/2018/309, dated 13.12.2018. Public Hearing of the project was conducted on 20.09.2019. The final EIA / EMP was submitted by the PP to SEIAA on 15.10.2019 and forwarded to SEAC on 15.10.2019.

M/s Ramkrishna Forging Limited Plant – 1, proposes for the expansion of the existing Auto Components – 3000 TPA, Engineering Items – 600 TPA, Export Items (Auto Components + Engineering Items) 754000 Nos./yr. to various Forgings 60000 TPA. It will be improved combination of Engineering-cutting shop, smithy shop, and heat treatment. Proposed expansion site is located in Plot-M6, M5, Phase-VI, Adityapur Industrial Area, Gamharia, and District – Saraikela-Kharsawan in the state of Jharkhand. The site falls under the Survey of India Topo sheet No. 73 J/1. The Latitude and Longitude of the site is 22° 48' 12.67" N and 86° 07' 11.35" E respectively. Expansion is proposed in the existing land of 4.72 acres.

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Salient Features:

1.	Project Proposal	Expansion of the existing Auto Components – 3000 TPA, Engineering Items – 600 TPA, Export Items (Auto Components + Engineering Items) 754000 Nos./yr. to Various Forgings 60000 TPA.
2.	Name of the company	M/s Ramkrishna Forging Ltd, Plant -1.
3.	Area of plant	4.72 Acres (1.91 ha)
4.	Location	Plot-M6, M5, Phase-VI, Adityapur Industrial Area, Gamharia, and District – Saraikela-Kharsawan, Jharkhand. Latitude and Longitude - 22° 48' 12.67" N and 86° 07' 11.35" E.
5.	Proposed capacity	Various Forgings 60000 TPA.
6.	Cost of project	89.03 Crores
7.	Raw material & Fuel requirement	Billets/Rounds of Various grades of Steel – 71500 TPA. Furnace Oil – 5150 KL/year Diesel Oil – 250 KL/year Oil for Quenching – 10 KL/year.
8.	Manpower requirement	Total – 750 Managerial – 34, Skilled – 241, Semi-Skilled – 73, Unskilled – 402.
9.	Water requirement	150 KLD Source – Bore well.
10.	Power requirement	9.5 MW, Power source from JUSCO.
11.	Nearest Railway Station / Airport along with distance in Kms.	Gamharia – 1.75 Km Sonari Airport – 4.6 Km
12.	Nearest Town, City, District Headquarters along with distance in kms.	Gamharia – 2.25 km District Headquarter – 26.4 Km

Land use breakup

SL No	TYPE OF USE	AREA (acres)	AREA (ha)
1	Plant area (existing + expansion)	3.57	1.44
2	Entrance, Roads and Pavements	0.56	0.23
3	Storage yard, vacant area etc.	0.34	0.14
4	Water complex & RWH	0.15	0.06
5	Green Belt	0.10	0.04

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	TOTAL	4.72	1.91
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The area falls under notified Industrial Area which has been approved for non-forest use as per letter of Deptt. of Forest, Govt. of Jharkhand, letter no. van bhumi – 47/2009 – 1910, dated 01.07.2009.

The configuration of proposed plant is as below:

Existing Unit –

Plant/Unit	Item of manufacture	Existing Capacity per Annum
Forging unit with Hammers, Pneumatic Hammers & Up-Settler	Auto Components	3000 TPA
	Engineering Items	600 TPA
	Export items (Auto Components+ Engineering items)	754000 Nos./yr

Proposed configuration after expansion –

Plant Facilities - addition	Product - addition	Capacity - addition per Annum
Various Forgings (Hammers, Pneumatic Hammers & Up-Settler)	Various Forgings	60000 TPA
Matching oil furnace based Heat Treatment Line		

Raw material requirement of the project, their source and transportation is as below:

Raw Materials	Grade of Raw Material	Weight in TPA	Mode of Transport
Billets and Rounds of Various grades of Steel	Mix Grade Alloy Steel	71500	Road – By trucks & Trailers
Consumables			
For Process & Heat Treatment	Furnace Oil	5150.0 KL/year	Road – By Tankers
	Diesel Oil	250.0 KL/year	Road – By Tankers
	Oil for Quenching	10.0 KL/year	Road – Trucks in drums

Management Plan for Solid Waste generated from the proposed project will be as below:

Particulars	Wt. of Raw Material	Wt. of Product	Wt. of scrap/ Reject
Steel Cutting & reject	71500	60000	11500

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a.	Rejects generated at RM inspection	Returned to supplier
b.	Rejects/scrap (short length) generated at Cutting section	Re-used for other product or stored in covered shed and sold for recycle to supplier/other steel making industries
c.	Scrap generated during process & machining	Properly stored in covered shed and sold for recycle to supplier/other steel making industries
d.	Hazardous waste (solid or liquid) generated will be stored properly and disposed to registered recyclers as per Hazardous & Other Wastes (Management, Handling & Transboundary Movement) Rules 2016	

Baseline Environmental Studies were conducted during winter season i.e. from December 2018 to February 2019. AAQ monitoring at 8 locations indicates that the concentration of PM₁₀ ranges from 54.40 µg/m³ to 85.80 µg/m³ and average PM_{2.5} data ranges from 21.80 µg/m³ to 43.50 µg/m³. Also average SO₂ is in ranges from 5.20 µg/m³ to 16.20 µg/m³, average NO₂ data ranges from 19.40 µg/m³ to 46.30 µg/m³, CO data ranges from 0.54 mg/m³ to 0.98 mg/m³. Concentrations of the AAQ parameters were within NAAQS limits. The result of the modelling study indicates that the maximum increase of GLC for the proposed project is 3.20 µg/m³ with respect to the PM₁₀, 1.03 µg/m³ with respect to the SO₂ & 1.11 µg/m³ with respect to the NO_x.

Ground Water Quality has been monitored in 8 locations in the study area and analysed. All parameters also found within the limits of IS:10500. Surface water Quality has been monitored in 4 locations in the study area and analysed. Parameters values ranged from - pH 7.32 to 7.84; DO 5.8 to 6.9 mg/l and BOD: 10.47 to 18 mg/l. All parameters also found within the limits of "Class - C" surface water.

Noise levels are in the range of 50.84 to 72.58dB(A) for daytime and 41.62 to 63.73 dB(A) for night time.

There are no people residing in the core zone of the project. No R&R is involved. It has been envisaged that no families are to be rehabilitated for the project.

Public hearing for the project was conducted on 20.09.2019 by JSPCB at Adityapur Small Industries Association, Plot- M-5 (Part), Adityapur-Kandra Road, Adityapur, Dist - Saraikela-Kharsawan in the chairmanship of Shri Subodh Kumar, Additional District Magistrate (Law and Order). The issues raised by the public and response of the project proponent with action plan has been provided.

Budget for CER is Rs 90.00 Lakhs for implementing Enterprise Social Commitment.

Proposed CER/ESC Activities (based on public hearing issues and need based):

S. No.	Area of Concern	Action Plan	Budget Allocated (in Rs. Lakhs)
1)	Employment	• Vocational Training for Skill development for self-employment	30.00
2)	Health Care	• Health Care Centre & Camp	18.00

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S. No.	Area of Concern	Action Plan	Budget Allocated (in Rs. Lakhs)
3)	Education	• Educational support to students & improving infrastructures in school	12.00
4)	Drinking water & Sanitation	• Rain Water Storage tanks and Hand Pumps at nearby village	6.00
5)	Green cover Plantation	• Plantation along road side and in nearby villages	6.00
6)	Community Development & Cultural	• Maintenance of community halls, temples etc.	6.00
7)	• Other as per suggestion of Local Bodies		12.00
S No.	Area of Concern		
Total for CER (1% of Project Cost – as per OM, dt 01.05.2018)			90.00

Proposed ESC activities will be implemented within a span of 3 years along with implementation of the plant.

SL No	ITEM DESCRIPTION	CAPITAL INVESTMENT (Rs. in Lacs)	RECURRING COST PER YEAR (Rs. in Lacs)
1	Water Sprinkling System	3.00	0.60
2	Handling disposal of Solid Wastes	12.00	3.00
3	Green Belt & Plantation	1.50	0.60
4	Effluent Treatment Plant, RWH, others	10.00	3.00
5	Handling disposal of Hazardous Wastes	9.00	3.00
6	OHS Survey, Monitoring & Management	3.00	1.20
	TOTAL	38.50	11.40

The Capital Cost of the Project is Rs. 89.09 Crores and the capital cost for environmental protection measures is proposed as Rs. 38.50 Lakhs . The annual recurring cost toward the environmental protection measures is proposed as Rs. 11.40 Lakhs. The details of capital cost for environmental protection measures and annual recurring cost towards the environmental protection measures is as follows:

Note - Implementation of above EMP will be carried out along with installation of plant and completed prior to commissioning except for the Occupational health & Green Belt. There is no court case or litigation relating to environment against the unit.

DFO, Saraikela Division vide letter no. 1585, dated 03.08.18 certified that the distance of notified forest is 0 (Zero) m from proposed project site.

PP & the consultant have presented the EIA/EMP report as per the point was replies of Tor conditions. The public hearing details have been submitted and discussed in the meeting.

The PP Committee suggested to increase the plantation from the present start the plantation immediately before taking up the expansion work

The proposal was appraised by State Level Expert Appraisal Committee (SEAC) and recommended for grant of Environmental Clearance in its meeting held on 04th, 05th, 06th and 07th November, 2019.

State Level Environment Impact Assessment Authority (SEIAA), Jharkhand in its meeting held on 08th November, 2019 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 **“Expansion of Existing Auto Components – 3000 TPA, Engineering Items – 600 TPA, Export Items (Auto Components + Engineering Items) 754000 Nos./yr. to various Forgings 60000 TPA for M/s Ramkrishna Forgings Limited – Plant 1 at Plot No.- M5 & M6 , 6th Phase, Adityapur Industrial Area, Gamhria, Dist. : Saraikela-Kharsawan, Jharkhand”** alongwith the following conditions as recommended by SEAC.

I. Specific Conditions :

- i. 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.
- ii. **No mining/activity shall be undertaken in the forest land or deemed forest without obtaining requisite prior forestry clearance.**
- iii. **This Environmental Clearance is granted subject to final outcome of Hon’ble Supreme Court of India, Hon’ble High Court, Hon’ble NGT, MoEF & CC and any other Court of Law, if any, as may be applicable to this project.**
- iv. **Environmental clearance is subject to obtaining prior clearance from forestry and Wildlife angle including clearance from standing committee of NBWL, as may be applicable to this project (in case any fauna occurs / is found in the Project area or if the area involves forest land or Wildlife habitat i.e. core zone of elephant/tiger reserve etc. and or located with in 10 km. of protected area).**
- v. **The project proponent may apply simultaneously for forest and NBWL clearance, in order to complete the formalities without undue delay, which till process on their respective merits, no rights will vest in or accrue to them unless all clearance are obtained.**
- vi. As proposed, only propane gas will be used as fuel to reduce particulate emissions.
- vii. 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.

- viii. 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.
- ix. 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.
- x. 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.
- xi. 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.
- xii. 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.
- xiii. 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.
- xiv. 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.
- xv. Total water requirement from ground water source shall not exceed 495 m³/day. All the wastewater generated from the process shall be treated in the effluent treatment plant (ETP) 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.
- xvi. Prior permission for the drawl of 150 m³/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 6 months of issue of the environment clearance.
- xvii. As proposed, all the metal scrap, iron oxide and dust shall be disposed for recycle / reuse in furnaces. 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 2016 and subsequent amendments.
- xviii. A time bound action plan shall be submitted to reduce solid waste, its proper utilization and disposal.
- xix. 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.

- xx. Plantation should be done over an area equal to 33% of plant area including Green Belt inside and Plantation outside the premises. Local species trees should be planted as per the CPCB guidelines.
- xxi. Proper care shall be taken in structural design to protect against earthquake if the site falls under earthquake zone and implemented during construction phase.
- xxii. 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/Soak Pit, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

II. General Conditions :

- i. The project authorities must strictly adhere to the stipulations made by the Jharkhand State Pollution Control Board (JSPCB) and the State Government.
- ii. No further expansion or modifications in the plant shall be carried out without prior approval of the concerned authority/ SEIAA, Jharkhand.
- iii. 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.
- iv. 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, SO₂ and NO_x 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.
- v. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- vi. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.
- vii. 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.
- viii. 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).
- ix. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented. Copy of same should be submitted to this office for record.

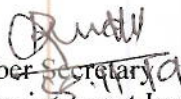
- x. The company shall undertake rainwater harvesting measures by collecting the rainwater through drains. The water collected shall be connected to raw water pipeline for reuse in the plant. The company shall provide proper drainage system for rainwater to prevent water logging within and in the vicinity of the plant.
- xi. 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.
- xii. 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 surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.
- xiii. 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.
- xiv. 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.
- xv. 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.
- xvi. 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.
- xvii. 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, SO₂, NO_x (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.
- xviii. 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.
- xix. 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.
- xx. **It shall be mandatory for the project management to submit six (06) monthly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard copies and soft copies to the regulatory authority**

concerned Regional Office of MoEF & CC at Ranchi and Jharkhand State Pollution Control Board (J.S.P.C.B.), Ranchi/SEIAA/CPCB.

- xxi. Concealing factual data or submission of false/fabricated data and 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.
- xxii. The SEIAA, Jharkhand or any other competent Authority may alter modify the above conditions or stipulate any further condition in the interest of Environment Protection.
- xxiii. 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.

III. Other Conditions :

- i. 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.
- ii. In view of MoEF & CC O.M. No.- 22-27/2015-IA-III, dated- 12.04.2016 The Environmental Clearance accorded shall be valid for a period of Seven (07) years. The PP shall not increase production rate and make modifications in process during the validity of Environmental Clearance.
- iii. 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.


Member Secretary
State Level Environment Impact
Assessment Authority, Jharkhand.