



RAMKRISHNA FORGINGS LIMITED

PLANT : V
VILL: BALIGUMA, PO: KOLABIRA,
THANA : SARAIKELA, DIST: SARAIKELA-KHARSAWAN
JHARKHAND-833220 (INDIA)
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EMAIL : pressplant5@ramkrishnaforgings.com

Ref.: RKFL/HC/23/PV/166

Date: 22.06.2023

To,
The Member Secretary,
MoEF&CC, New Delhi

Subject: Regarding compliance of Environmental Clearance conditions of project 'Ramkrishna Forgings Limited, Plant - 5 at Vill. Bholadih(baliguma), PO. Kolabira, Distt. Saraikela-Kharsawan, Jharkhand'

Reference: Environmental Clearance F.No. J-11011/4/2020-IA-II(I), Dated 01.02.2021

Sir,

We have obtained Environment Clearance from MoEF&CC, New Delhi and Consent to Establish (NOC) from the concerned authority and all mandatory clearances, authorizations and permission obtained as applicable.

As per requirements of Environment (Protection) Act 1986 and various conditions of the above mentioned Environmental Clearance we are submitting the six monthly compliance reports with status for the period from 1st Oct. 2022 to 31st March 2023 to the specified authorities. The same is enclosed for your information.

Thanking you,

For, Ramkrishna Forgings Limited,

Authorised Signatory

Enclosure: Compliance Report with Annexure.

Copy To

1. **The Member Secretary**, State Level Environment Impact Assessment Authority, Jharkhand
2. **Regional Officer (ECZ)**, Ministry of Environment, Forest and Climate Change
3. **The Member Secretary**, Jharkhand State Pollution Control Board, Ranchi.
4. **The Regional Officer**, Jharkhand State Pollution Control Board, Jamshedpur,

REGISTERED & CORPORATE OFFICE

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CIN NO. L74210WB1981PLC034281



**COMPLIANCE OF ENVIRONMENTAL CLEARANCE CONDITIONS
FOR
RAMKRISHNA FORGINGS LIMITED, Plant-5: F.No. J-11011/4/2020-IA-II(I),
DATED 01.02.2021**

SL.	CONDITION	COMPLIANCE STATUS (1 st October 2022 – 31 st March 2023)
A. Specific Conditions		
i.	All roads shall be made Pucca and a vacuum cleaner shall be used to clean the roads.	Complied All roads inside the Plant are Pucca roads. Mechanized cleaning of roads also done.
ii.	Propane gas shall be used for heat treatment.	Complied Only Propane gas is used for heat treatment.
iii.	Particulate Matter emissions from the stacks shall be less than 30 mg/Nm ³ .	Complied Particulate Matter emission from the stacks is less than 30 mg/Nm ³ . Latest Stack Emission monitoring reports carried out in the month of Mar'2023 by NABL certified M/s ELESPL duly authorized by JSPCB is attached as Annexure-A1 .
iv.	Existing ETP shall be upgraded to treat the additional effluent from expansion.	Complied Existing ETP capacity is 150 KLD. It is capable to treat the additional effluent from expansion. No effluent is discharged outside the premises, we do maintain 'Zero Discharge' at any point of time. Treated waste water is used for dust suppression, green belt development, fire water tank etc
v.	Rainwater Harvesting shall be done to recharge 100% of annual consumption.	Complied Rain water harvesting plan has been developed and implemented as per directions given by Ground Water Directorate, Govt. of Jharkhand vide their letter/approval no. G.W.D 295/Ranchi dated 17.08.2013 in the plant. Copy of Technical Approval of design and plan for Rain Water Harvesting for Ground Water Recharging vide letter no. G.W.D 295/Ranchi dated 17.08.2013 approved by Ground Water Directorate, Govt. of Jharkhand is attached as Annexure – B1 .


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vi.	Treated effluent from the plant shall be reused and recycled.	Complied Effluent generated from the plant is treated in ETP (150 KLD). Treated waste water is used for dust suppression, green belt development, fire water tank etc
vii.	Since the project falls within 5 kms of Severely Polluted Area, green belt shall be planted in 40% of the total plant area with a density of 2500 trees per ha of land. Further, as proposed by the PP, 1.169 ha of land outside project boundary which has been acquired by the PP shall be used only for the plantation purpose.	Complied Green belt developed by planting more than 4260 plants inside and along the boundary. Tree Plantation continued to maintain the green belt/green cover. 1.169 ha of land outside project boundary has already been acquired that will be used for the plantation purpose only. Plantation details is attached as Annexure-B2
B. General conditions		
I. Statutory compliance:		
i.	The Environment Clearance (EC) granted to the project/activity is strictly under the provisions of the EIA Notifications, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approval/consent/permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.	Noted and being complied
II. Air quality monitoring and preservation		
i.	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as Continuous Ambient Air Quality Station (CAAQS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Complied We have installed 24x7 continuous emission monitoring system at process stack to monitor stack emission as well as Continuous Ambient Air Quality Station (CAAQS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS are connected to SPCB and CPCB online servers. Calibration also done according to equipment supplier specification. Copy of continuous emission monitoring system

		at process stack to monitor stack emission as well as Continuous Ambient Air Quality Station (CAAQS) for monitoring AAQ parameters are attached as Annexure-A2, A3, A4 and A5.
ii.	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Complied Fugitive emission in the plant premises monitored quarterly. Latest Fugitive Emission reports carried out in the month of Mar'2023 by NABL certified M/s ELESPL duly authorized by JSPCB is attached as Annexure-A6
iii.	Appropriate Air Pollution Control (APC) system shall be provided for the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.	Complied Appropriate Air Pollution Control (APC) viz. fume extraction system, fix type water sprinklers, pucca roads, water scrubber at paint shop, bag house system etc. has been provided to control stack as well as fugitive dust emissions. Latest Stack and Fugitive Emission reports carried out in the month of Sep'2022 by NABL certified M/s ELESPL duly authorized by JSPCB is attached as Annexure-A1 and A6.
iv.	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	Complied
v.	The project proponent shall ensure covered transportation and conveying of ore, coal and other raw materials to prevent spillage and dust generation.	Complied Iron billets are used as raw materials. Unloading, storage, operation and loading etc. done under covered shed. All transportation roads are RCC pucca roads.
vi.	The project proponent shall provide primary and secondary fume extraction system at all hear treatment furnaces.	Complied Fume extraction system provided at heat treatment furnaces.
vii.	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.	Not applicable in our case. Iron billets are used as raw materials.
viii.	Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.	Complied
III. Water quality monitoring and preservation		
i.	The project proponent shall monitor regularly ground water quality at least twice a year	Complied

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	(pre and post monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.	Ground Water quality monitored quarterly. Latest Ground Water quality report carried out in the month of Mar'2023 by NABL certified M/s ELESPL duly authorized by JSPCB is attached as Annexure-A7
ii.	Adhere to 'Zero Liquid Discharge'	Complied We do maintain 'Zero Liquid Discharge'. Treated waste water is used for dust suppression, green belt development, fire water tank etc.
iii.	Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.	Complied Garland drains and collection pits are provided. Rain water is collected through drains/pipelines and being stored to the rain water tanks (1x2000 KL, 1x6000 KL). Stored rain water is further used in process. Pipelines are connected from rain water storage tanks to the raw water tank to reuse in plant process.
IV. Noise monitoring and preservation		
i.	Noise quality shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.	Complied Noise quality report monitored quarterly. Latest Noise quality report monitored in the month of Mar'2023 by NABL certified M/s ELESPL duly authorized by JSPCB is attached as Annexure-A8 .
V. Energy Conservation measures		
i.	Energy conservation measures may be adopted such as adoption of solar energy and provision of LED lights etc., to minimize the energy consumption.	Complied 910 KW grid connected solar rooftop power plant Installed. Total 9400 sq. Meter area covered by solar plates. 6% of plant power consumption is fulfilled by Solar Energy. 250 W Metal Halide lamps are also being replaced by 160 W LED lights to minimize the energy consumption.

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VI. Waste Management		
i.	Used refractories shall be recycled as far as possible.	Noted and being Complied
ii.	Kitchen waste shall be composted or converted to biogas for further use.	Complied Kitchen waste is composted and is used for greenery development.
VII. Green Belt		
i.	The project proponent shall prepare GHG emission inventory for the plant and shall submit the programme for reduction of the same and also estimate carbon sequestration by the plantations.	Complied GHG Emission inventory is attached as Annexure-C . We are working on reduction of GHG emission by installing solar power plants, reducing energy consumptions, using battery operated fork lifts, plantation etc.
VIII. Public hearing and Human health issues		
i.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Complied Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan has been implemented. Copy of HIRA and Emergency Preparedness attached as Annexure-D .
ii.	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.	Complied Hematology of workmen working in high temperature work zone is carried out annually. PPEs also provided as per the norms of Factories Act 1948. Hematology of workmen attached as Annexure-E
iii.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained.	Complied Occupational health surveillance of the workers done as per norms. Copy of health surveillance report attached as Annexure-F
IX. Corporate Environment Responsibility		
i.	The project proponent shall comply with the provisions contained in this Ministry's OM	Being complied


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	vide F.No. 22-65/2017-IA.III dated 30/09/2020.	
ii.	The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedure to have proper checks and balances and to bring into focus any infringements / deviation / violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.	Complied We have a well laid down environmental policy duly approved by the Board of Directors. Copy of Environmental Policy attached as Annexure-G
iii.	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be kept under the control of senior Executive, who will directly to the head of the organization.	Complied Environment cell already in place. Copy of the same is attached as Annexure-H .
X. Miscellaneous		
i.	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	Complied Copy attached as Annexure-I .
ii.	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	Complied Receipt of the same attached as Annexure-J .
iii.	The project proponent shall upload the status of compliance for the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	Noted and being complied
iv.	The project proponent shall monitor the criteria pollutants level namely, PM ₁₀ , SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at convenient location for disclosure to	Complied LED screen displayed at Main Gate for criteria pollutant level namely PM ₁₀ , SO ₂ , NO _x .

	the public and put on the website of the company.	
v.	The project proponent shall submit six-monthly reports on the status of the compliance for the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	Noted and being complied
vi.	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	Complied. Copy of Environmental Statement Form-V for the year 2021-22 is attached as Annexure-K
vii.	The project proponent shall inform Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.	Complied
viii.	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	Noted and being complied
ix.	No further expansion or modifications in the plant shall be carried out without prior approval of the ministry of Environment, Forests and Climate change (MoEF&CC)	Noted and being complied
x.	Concealing factual data or submission of false/fabricated data may result in revocation of the environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted
xi.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted
xii.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Noted
xiii.	The Regional Office is this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data/information/monitoring reports.	Noted
xiv.	Any appeal against this EC shall lie with the	Noted


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National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
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