

COMPLIANCE OF ENVIRONMENTAL CLEARANCE CONDITIONS FOR RAMKRISHNA FORGINGS LIMITED: Letter No.-EC/ SEIAA / 2014-15/516/ 2014/1929, DATED 23.11.2015		
SL.	CONDITION	COMPLIANCE STATUS (1 <sup>st</sup> October 2020 – 31 <sup>st</sup> March 2021)
<b>A. Specific Conditions</b>		
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.	Noted and complied.
2.	As proposed, only propane gas will be used as fuel to reduce particulate emissions.	Complied. Only propane gas is used as fuel in the process.
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	Complied To control the PM levels, operations kept under covered shed, pucca roads made in the premises, green cover, plantation and good housekeeping is maintained. Latest AAQ, Stack and Fugitive Emission reports carried out in the month of March'2021 by M/s ELESPL is attached as <b>Annexure-A1, A2 and A3</b>
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.	Complied On-line ambient air quality monitoring and continuous stack monitoring facilities installed. Data is also transmitted to JSPCB and CPCB. Emission of particulate matter from various process units found well within the norms. Copy of online ambient quality monitoring and continuous stack monitoring data are attached as <b>Annexure-B1 and B2</b>
5.	The company shall monitor the raw and treated waste water 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.	Complied Raw and treated waste water quality for trace metal and air quality at sources and ambient including routine parameters are being tested quarterly.

		Latest monitoring reports carried out in the month of March'2021 by M/s ELESPL is attached as <b>Annexure-A4, A5, A3 and A2.</b>
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.	<p>Complied</p> <p>Silent type D G sets have already been installed as per the conditions and exhaust pipe raised as per the CPCB norms. Pollution control equipment connected with DG set for backup.</p> <p>Latest monitoring reports carried out in the month of March'2021 by M/s ELESPL is attached as <b>Annexure-A1.</b></p>
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.	<p>Complied</p> <p>Conditions are being complied to meet the latest norms of EP Rules/JSPCB.</p> <p>Latest monitoring reports carried out in the month of March'2021 by M/s ELESPL is attached as <b>Annexure-A4 and Annexure-A1</b></p>
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.	<p>Complied</p> <p>Operations kept under covered shed, pucca roads inside the premises, green cover, plantation and good housekeeping is maintained. Fixed type water sprinklers also installed at places to suppress the fugitive dust.</p> <p>Latest Fugitive Emission reports carried out in the month of March'2021 by M/s ELESPL is attached as <b>Annexure-A3.</b></p> <p>All the parameters were found well within limit.</p>
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.	<p>Complied</p> <p>Latest Fugitive Emission reports carried out in the month of March'2021 by M/s ELESPL is attached as <b>Annexure-A3.</b></p> <p>All the parameters were found well within limit.</p>
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	<p>Complied</p> <p>Complied as per the norms. Unloading, storage, operation and loading etc. done under covered</p>

	and unloading of the raw material and finished product.	shed. All transportation roads are RCC pucca roads.
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	<p>Water consumption at no stage exceeds the limit i.e. 495 m<sup>3</sup>/day.</p> <p>All the waste water generated from the process is treated in the 150 KLD and 10 KLD effluent treatment plant followed by in Reverse Osmosis (RO) Plant and recycle/reused in Plant process. We have also installed 62 KLD Sewage Treatment Plant &amp; STP installed and treated water is used in Plant process. Treated waste water is also used for dust suppression, green belt development, fire water tank etc</p> <p>No effluent is discharged outside the premises, we do maintain 'Zero Discharge' at any point of time.</p> <p>Water consumption summary from October 2020 to March 2021 is attached as <b>Annexure - C</b></p>
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	<p>Complied</p> <p>Permission granted by CGWA vide NOC no. CGWA/NOC/IND/ORIG/2015/2105 dated 02.12.2015. Permission also renewed vide NOC No.CGWA/NOC/IND/REN/1/2019/5564, valid up to 25.11.2020 for the drawl of 495 m<sup>3</sup>/day ground water per day. We have also applied for renewal on 30.10.2020.</p> <p>Copy of CGWA NOC is attached as <b>Annexure - D</b></p>
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	<p>Complied</p> <p>Solid waste is used by the supplier/industries in induction furnace units as raw material.</p> <p>Other solid/hazardous wastes generated disposed to M/s ACC duly authorized by JSPCB.</p> <p>Domestic waste sewage sludge is used as manure for green belt development.</p> <p>We have also obtained hazardous waste</p>

	amendments.	authorization vide letter no. JSPCB/HO/RNC/HWM-4264997/2020/4 dated 24.01.2020 valid up to 04.02.2024.  Copy of the same attached as <b>Annexure-E</b>
14.	A time bound action plan shall be submitted to reduce solid waste, its proper utilization and disposal.	Complied  Already the latest technology with optimum utilization installed. Solid waste is used by the supplier/industries in induction furnace units as raw material.
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	Complied  All solid waste generated disposed to authorized (by JSPCB) agency.  Records (Form-IV) maintained and submitted to the SEIAA, JSPCB and CPCB. Please refer <b>Annexure - F</b>
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.	Complied  Green belt developed by planting approx. 4000 plants inside and along the boundary.  We have covered 3.30 Ha (8.15 Acre) area with plantation.  Tree Plantation continued to maintain the green belt/green cover.
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.	Complied.  Provision of CREP for the steel plant such as installation of on-line ambient air quality monitoring and continuous stack monitoring facilities done. Data is also transmitted to JSPCB and CPCB.  CREP other recommendations such as installation of ETP/STP, processing of waste through waste recycling plant, rain water harvesting pit good housekeeping etc. are being also followed
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.	Complied.  Proper care has been taken in structural design.  Copy of stability certificate issued by competent person approved by Chief Inspector of

		Factories, Jharkhand dated 04.10.2019 is attached as <b>Annexure-G</b>
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, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Complied. No construction at present.
<b>B. General Conditions</b>		
1.	The project authorities must strictly adhere to the stipulations made by the Jharkhand State Pollution Control Board (JSPCB) and the State Government.	Complied. Consent to Establish obtained from JSPCB vide letter no. JSR/CTE/477046/2015/G-175 dated 25.10.2016 whereas Consent to Operate obtained vide letter no. JSPCB/HO/RNC/CTO-1031235/2017/382 dated 11.04.2017 valid up to 30.09.2021 Copy of CTE and CTO attached as <b>Annexure-H1 and H2</b>
2.	No further expansion or modifications in the plant shall be carried out without prior approval of the concerned authority/ SEIAA, Jharkhand	Complied Any expansion or modification in the plant shall not 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.	Complied Continuous stack monitoring facilities are installed and data of the same is transmitted to JSPCB/CPCB. Stack emission data also manually monitored by M/s ELESPL in the month of March'2021. All parameters were found well within limit as per norms. Copy of latest monitoring report are attached as <b>Annexure -A1, A2 &amp; A3</b>
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	Complied Latest AAQ and Stack Emission reports carried out in the month of March'2021 by M/s ELESPL.

	<p>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.</p>	<p>All the parameters were found well within limit.</p> <p>Reports are submitted to SEIAA and JSPCB / CPCB once in six months.</p> <p>Latest AAQ and Stack emission monitoring reports are attached as <b>Annexure-A2 and A1</b>.</p>
5.	<p>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.</p>	<p>Complied</p> <p>Industrial waste water generated from the process is treated in the 150 KLD and 10 KLD effluent treatment plant followed by in Reverse Osmosis (RO) Plant and recycle/reused in Plant process, Plantation, Fire Water, Dust Suppression etc.</p>
6.	<p>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).</p>	<p>Complied.</p> <p>The noise level maintained within the specified limit.</p> <p>Latest noise monitoring reports carried out by M/s ELESPL in the month of March-2021 are attached as <b>Annexure - A6</b></p>
7.	<p>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.</p>	<p>Complied</p> <p>Rain water harvesting plan has been developed and implemented as per instructions 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.</p> <p>Rain water is collected through drains/pipelines and being stored to the rain water tanks (1x2000 KL, 1x6000 KL).</p> <p>Pipelines are connected from rain water storage tanks to the raw water tank for reuse in plant.</p> <p>Till date 11000 KL (Approx.) rainwater is collected and reused in plant process.</p> <p>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 <b>Annexure - I</b></p>

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	<p>Complied</p> <p>Occupational Health Surveillance of the employees/workers is done annually and records maintained as per the Factories Act.</p> <p>A sample copy of health check up report is attached as <b>Annexure-J</b></p> <p>Pre-employment health check-up of employees is also done.</p> <p>OHSAS/EMS certification obtained from Bureau Veritas. Certification is valid up to 10.12.2021.</p> <p>Copy of OHSAS/EMS certification is attached as <b>Annexure-K</b>.</p>
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 surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.	<p>Complied</p> <p>The environment protection measures recommended in the EIA/EMP is being strictly followed. CSR in the surrounding villages being carried out.</p> <p>Till now (up to 2020-21) we have spent Rs. 542.32 lacs towards activities on socio-economic development in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.</p> <p>Copy of expenditure details towards socio-economic development is attached as <b>Annexure-L</b>.</p>
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.	<p>Complied</p> <p>Structure of EHS management cell furnished. Copy of the same is attached as <b>Annexure-M</b>.</p>

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.	<p>Complied</p> <p>Capital investment on Environment Management Plan till now is Rs. 617.29 lacs (approx.) till now and recurring cost (approx.) for the year 2016-17, 2017-18, 2018-19, 2019-20 and 2020-21 was 18.6, 49.8, 36.76, 50.28 and 53.45 lacs respectively.</p> <p>Summary of EMP expenditure is attached as <b>Annexure-N</b></p>
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).	<p>Complied</p> <p>Capital investment on Environment Management Plan till now is Rs. 617.29 lacs (approx.) till now and recurring cost (approx.) for the year 2016-17, 2017-18, 2018-19, 2019-20 and 2020-21 was 18.6, 49.8, 36.76, 50.28 and 53.45 lacs respectively.</p> <p>Till now (up to 2020-21) we have spent Rs. 542.32 lacs towards activities on socio-economic development in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.</p> <p>Copy of CSR and EMP Expenditure are attached as <b>Annexure- L &amp; N</b></p>
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.	<p>Complied.</p> <p>Submitted copy to concerned authorities and local bodies. There is no representation of NGO.</p> <p>Environment Clearance also been uploaded on the website at <a href="http://www.ramkrishanforgings.com">www.ramkrishanforgings.com</a> under RKFL, certifications.</p>
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	<p>Complied</p> <p>Status of compliance of the environment clearance conditions, including results of monitored data on our website <a href="http://www.ramkrishanforgings.com">www.ramkrishanforgings.com</a> and it is updated periodically</p> <p>The criteria pollutant levels namely; PM, SO<sub>2</sub>, NO<sub>x</sub> (ambient levels as well as stack emissions) are monitored and displayed at our main gate.</p>



	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.	Complied  Six monthly compliance reports as directed, submitted to the concerned authority in the month of June and December every year.
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 along with the status of compliance of environmental conditions and shall also be sent to the respective Offices.	Complied  The environmental statement for each financial year ending 31st March in Form-V is submitted to the JSPCB within stipulated time frame.  It is also put on the website <a href="http://www.ramkrishnanforgings.com">www.ramkrishnanforgings.com</a> of the company along with the status of compliance of environmental conditions and also sent to the respective Offices through compliance report.  Copy of Environmental Statement for the year ending 31.03.2020 in Form - V is attached as <b>Annexure-O</b>
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.	Complied.  Information submitted to concerned authorities.

RAMKRISHNA FORGINGS LIMITED  
  
 28/06/2021  
 Authorized Signatory