



*Jagat Metals Pvt. Ltd.*

Manufactures of :  
M. S. BILLET, ROUND, BAR, SQUARE & HEXA

Date ~~Dated~~ 30.11.2022

Ref. No.....

To

**The Additional Director**  
Ministry of Environment, Forest & Climate Change,  
Regional Office (North)  
Government of India,  
Bay No. 24-25, Sector – 31 A,  
Chandigarh.  
(Mail ids.: [ecompliance-nro@gov.in](mailto:ecompliance-nro@gov.in) and [ronz.chd-mef@nic.in](mailto:ronz.chd-mef@nic.in))

**Subject: Submission of Six Monthly Compliance Report for period ending 30.09.2022 for the Steel Manufacturing Unit namely "M/s Jagat Metals Pvt. Ltd." located at Village AmbeyMajra, Near 220 K.V. Power house, MandiGobindgarh, Tehsil Amluh, District Fatehgarh Sahib, Punjab.**

Sir,


With reference to the EIA Notification & its amendments regarding submission of six monthly compliance report, we are hereby submitting the six monthly compliance report for period ending 30.09.2022 for the above said project in soft copy through mail for your perusal.

Kindly acknowledge the receipt of the same.

Thanking you.

Sincerely,

For M/s Jagat Metals Pvt. Ltd.

  
(Authorized Signatory)  
Name: Joginder Pal Singla  
Contact No.: 9988900846  
Designation: Director  
Email: [jagatmpl@yahoo.com](mailto:jagatmpl@yahoo.com)  
CC to:

1. **Member Secretary, SEIAA Punjab, Directorate of Environment and Climate Change, C/o Punjab State Council for Science & Technology, MGSIPA Complex, Sector 26, Chandigarh-160019 (Upload on Parivesh Portal and through e-mail [seiaapb2017@gmail.com](mailto:seiaapb2017@gmail.com))**
2. **Environmental Engineer, Punjab Pollution Control Board, Regional Office, RIMT Management College, MandiGobindgarh, Distt. Fatehgarh Sahib, Punjab (mail id: [eerofgs@gmail.com](mailto:eerofgs@gmail.com))**

2022

**SIX MONTHLY COMPLIANCE  
REPORT  
(Period ending 30.09.2022)**

F  
OR

For

**M/s Jagat Metals Pvt. Ltd.**

at

**Village Ambey Majra,  
Near 220 K.V. Power House,  
Mandi Gobindgarh, Tehsil Amloh,  
District Fatehgarh Sahib, Punjab**

**Prepared by:**



**Eco Paryavaran Laboratories & Consultants Private  
Limited**

**E-207, Industrial Area, Phase-VIII B (Sector-74), SAS Nagar (Mohali)  
Punjab.**

**[www.ecoparyavaran.org](http://www.ecoparyavaran.org)**

**Phone: 0172-4616225, 8872043178**



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**Ministry of Environment, Forests & Climate Change**  
**Northern Region Office**  
**Chandigarh-160030**

**Data sheet**

<b>1.</b>	<b>Project Type</b>	3(a): Metallurgical Industries (Ferrous & Non-Ferrous alloys)
<b>2.</b>	<b>Name of the Project</b>	M/s Jagat Metals Pvt. Ltd.
<b>3.</b>	<b>Clearance letter (s) O.M. No. &amp; Date</b>	Environment Clearance granted by SEIAA, Punjab vide Letter No. SEIAA/2019/754 dated 22.08.2019; copy of same is enclosed as <b>Annexure 1</b> .
<b>4.</b>	<b>Location</b>	<b>M/s Jagat Metals Pvt. Ltd.</b> Village Ambey Majra, Near 220 K.V. Power House, Mandi Gobindgarh, Tehsil Amloh, District Fatehgarh Sahib, Punjab
<b>a)</b>	<b>District(s)</b>	Fatehgarh Sahib
<b>b)</b>	<b>State(s)</b>	Punjab
<b>5.</b>	<b>Address for correspondence</b>	<b>M/s Jagat Metals Pvt. Ltd.</b> Village Ambey Majra, Near 220 K.V. Power House, Mandi Gobindgarh, Tehsil Amloh, District Fatehgarh Sahib, Punjab
<b>6.</b>	<b>Salient features</b>	
<b>a)</b>	<b>Of the Project</b>	As per the Environmental Clearance, total area of the project after expansion will be 3.81 acres. After expansion, the production capacity of the industrial unit will become @ 170 TPD of Steel Ingots/Billets with 2 Induction Furnaces of capacity 6 TPH and 8 TPH.
<b>b)</b>	<b>Of the environment</b>	As per the Environmental Clearance, after expansion total water requirement of the project will be 41.5 KLD, out of which, 3.5 KLD will be the domestic water demand and 10 KLD will be makeup water demand for cooling purpose. Water requirement will be met through borewells.  Domestic wastewater generation from the project is estimated to be 2.8 KLD which will be treated in proposed STP of capacity 5 KLD installed within project premises and treated water will be reused for cooling purpose/green area for horticulture purpose.  The total power requirement for the project will be 6,200 KW which will be supplied by PSPCL. 1 DG set of 82.5 KVA has been proposed for power backup.
<b>7.</b>	<b>Break up of the Project</b>	Not applicable

	Area																						
a)	Submergence area	Not applicable																					
8.	Break up of project affected population with enumeration of those losing houses/ dwelling units only, agricultural land only both dwelling units and agricultural land and landless laborers/ land landless laborers/ artisans.	Not applicable																					
a)	SC/ST/ Adivasis	Not applicable																					
b)	Others (Please indicate whether these figures are base on any scientific and systematic survey carried out or only provisional figures. if a survey has been carried out give details and year of survey)	Not applicable																					
9.	Financial details																						
a)	Project cost as originally planned and subsequent revised estimates and the year of price reference.	Rs. 8.37 Crores as per the EC letter.																					
b)	Allocations made for environmental management plan with item wise and year of assessment.	<p>Allocations made for environment management plan is given below with breakup:</p> <table border="1"> <thead> <tr> <th>Title</th> <th>Capital Cost (Rs. Lakhs)</th> <th>Recurring Cost (Rs. Lakhs)</th> </tr> </thead> <tbody> <tr> <td>Air Pollution Control (installation of APCD)</td> <td>40</td> <td>0.5</td> </tr> <tr> <td>Noise Pollution Control (Including cost of landscaping &amp; green belt)</td> <td>5</td> <td>1.5</td> </tr> <tr> <td>Solid Waste Management</td> <td>3</td> <td>1</td> </tr> <tr> <td>Water Pollution Control (STP)</td> <td>5</td> <td>0.5</td> </tr> <tr> <td>Environment Monitoring and Management</td> <td>3</td> <td>5</td> </tr> <tr> <td>Health, safety and Risk Assessment</td> <td>3</td> <td>0.5</td> </tr> </tbody> </table>	Title	Capital Cost (Rs. Lakhs)	Recurring Cost (Rs. Lakhs)	Air Pollution Control (installation of APCD)	40	0.5	Noise Pollution Control (Including cost of landscaping & green belt)	5	1.5	Solid Waste Management	3	1	Water Pollution Control (STP)	5	0.5	Environment Monitoring and Management	3	5	Health, safety and Risk Assessment	3	0.5
Title	Capital Cost (Rs. Lakhs)	Recurring Cost (Rs. Lakhs)																					
Air Pollution Control (installation of APCD)	40	0.5																					
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Solid Waste Management	3	1																					
Water Pollution Control (STP)	5	0.5																					
Environment Monitoring and Management	3	5																					
Health, safety and Risk Assessment	3	0.5																					

		Rain Water Recharging outside the project premises	1.5	0.55
		Miscellaneous	1	0.5
		<b>Total</b>	<b>61.5</b>	<b>10.05</b>
c)	<b>Benefit cost ratio/ Internal rate of return and year of assessment.</b>	Will be submitted separately.		
d)	<b>Whether (c) includes the cost of environmental management as shown in (b) above.</b>	Yes.		
e)	<b>Actual expenditure incurred on the project so far.</b>	All the expenditure has been done on the project w.r.t EC granted. Expenditure done on the project is Rs. 10.6 Crores till 30.09.2022.		
f)	<b>Actual expenditure incurred on the environmental management plans so far.</b>	Actual expenditure done on Environment Management plan is approx. Rs. 77.5 lakhs till 30.09.2022.		
10.	<b>Forest lands requirement:</b>			
a)	<b>The status of approval for diversion of forest land for non forestry use.</b>	Not applicable, as no forest land is involved.		
b)	<b>The status of clear felling.</b>	Not applicable		
c)	<b>The status of compensatory a forestation programmer in the light of actual field experience so far.</b>	Not applicable		
11.	<b>The status of clear felling in non forest areas (such as submergence area of reservoir, approach road) if any, with quantitative information.</b>	Not applicable		
12.	<b>Status of construction</b>			
a)	<b>Date of commencement (actual and/or planned).</b>	December, 2019		
b)	<b>Date of completion (actual and/ or planned).</b>	July, 2020		
13.	<b>Reasons for the delay if the project is yet to start:</b>	Not applicable		

**Compliance Report on conditions imposed in Environmental Clearance for period ending 30.09.2022**

**I. Statutory compliance**

<b>S. No.</b>	<b>Compliance conditions</b>	<b>Reply</b>
i.	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.	Not applicable, as no forest land is involved.
ii.	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.	Not applicable, as no Wildlife Sanctuary falls within 10 km of the project location.
iii.	The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan/ Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report, (in case of the presence of schedule-I species in the study area).	No wildlife sanctuary falls within 10 Km of project location.
iv.	The project proponent shall obtain Consent to Establish/ Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/ Committee.	Consent to Establish for Expansion has been obtained prior to installation of new Induction Furnaces & other machinery. Further, Consent to Operate has been obtained from PPCB for increased production capacity w.r.t EC granted; copy of the same is enclosed as <b>Annexure 2.</b>
i.	The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of groundwater from the competent authority concerned in case of drawl of surface water required for the project. In case of non-grant of permission by CGWA for ground water abstraction, the industry shall make alternative arrangements by using surface water or treated city sewage effluent after obtaining permission from the competent	As per the latest notification, CGWA is not processing ground water applications for Punjab state. Thus, Punjab Water Regulation and Development Authority (PWRDA) has been constituted for ground water approval. Permission has been obtained from PWRDA regarding ground water abstraction; copy of the permission is enclosed as <b>Annexure 3.</b>

	authority.	
v.	The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.	Authorization for hazardous waste has been obtained from PPCB; copy of the same is enclosed as <b>Annexure 4</b> .
vi.	The project proponent shall comply with the siting criteria, standard operating practices, code of practice and guidelines if any prescribed by the SPCB/CPCB/MoEF&CC for such type of units.	Industrial unit has complied all the siting criteria's, standard operating practices, code of practice and guidelines as prescribed by CPCB/PPCB/MoEF&CC for such type of units.
vii.	The project proponent shall comply with conditions imposed by the District Town Planner, Fatehgarh Sahib vide Memo No. 38 dated 11.01.2019 & 501 dated 06.05.2019.	Conditions imposed by the District Town Planner are already being complied.

## II. Air quality monitoring and preservation

S. No.	Compliance conditions	Reply
i.	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 31 <sup>st</sup> March 2012 (applicable to IF/EAF) as amended from time to time; S.O. 3305 (E) dated 7 <sup>th</sup> December 2015 (Thermal Power Plants) as amended from time to time) and 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.	Online Continuous Emission Monitoring System (OCEMS) has been installed on both Induction Furnaces of capacity 6 TPH and 8 TPH; completion certificate for installation of OCEMS is enclosed as <b>Annexure 5</b> . Photographs of the OCMS installed in enclosed as <b>Annexure 6</b> . Further, stack monitoring has been done by PPCB and results are found within the permissible limit.
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.	Agreed.
iii.	The project proponent shall install a system carry out continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM <sub>10</sub> and PM <sub>2.5</sub> in reference to PM emission,	Monitoring of ambient air quality has been done by NABL accredited laboratory. Recent Test reports are enclosed as <b>Annexure 7</b> .



	and SO <sub>2</sub> and NO <sub>x</sub> in reference to SO <sub>2</sub> and NO <sub>x</sub> emissions) within and outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions. (case to case basis small plants: Manual; Large plants: Continuous).	
iv.	The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality/ fugitive emissions to the Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.	Agreed. Monitoring of ambient air quality is being done on half yearly basis by NABL accredited laboratory and submitted to Regional Office, MoEF&CC, SEIAA, Punjab and Regional Office, PPCB with six monthly compliance report.
v.	Appropriate Air Pollution Control (APC) system shall be provided for all the dust-generating points including fugitive dust from all vulnerable sources.	Pulse jet bag filter with side suction hood has been provided on both Induction Furnaces as per the designed approved by Punjab State Council for Science & Technology.
vi.	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	Leakage detection and bag cleaning facilities has been provided.
vii.	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, etc. regularly.	Agreed.
viii.	Recycle and reuse of iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/ agglomeration.	Agreed.
ix.	The project proponent shall use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.	Trucks are covered with tarpaulin while carrying the raw materials i.e. scrap.
x.	The project proponent shall provide covered sheds for raw materials like scrap and sponge iron, lump ore, coke, coal, etc.	Raw materials are being kept in the covered sheds only.
xi.	The project proponent shall provide primary and secondary fume extraction system at all melting furnaces.	Fume extraction system has been provided at all melting furnaces.
xii.	Design and ventilation system for adequate air changes as per the ACGIH document for all tunnels, motor houses, Oil Cellars.	Agreed.

### III. Water Quality Monitoring and Preservation

S. No.	Compliance conditions	Reply
i.	The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 31st March 2012 (applicable to IF/EAF) as amended from time to time; S.O. 3305 (E) dated 7 <sup>th</sup> December 2015 (Thermal Power Plants) as amended from time to time) and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories. (case to case basis small plants: Manual; Large plants: Continuous)	Not applicable as no industrial effluent is being generated from the unit. Only domestic wastewater is being generated which is being discharged into MC sewer connected.
ii.	The project proponent shall monitor regularly ground water quality at least twice a year (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 has been monitored by NABL accredited laboratory and results are found within the permissible limit. Test reports are enclosed as <b>Annexure 7(b)</b> .
iii.	The project proponent shall submit monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.	Not applicable as no industrial effluent is being generated from the unit. Only domestic wastewater is being generated which is being discharged into MC sewer connected.
iv.	Adhere to 'Zero Liquid Discharge'.	There is no generation of industrial effluent from the unit. Only domestic wastewater is being generated which is discharged into MC sewer connected.
v.	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.	STP has not been installed within project premises, as domestic wastewater is being discharged into MC sewer connected.
vi.	The project proponent shall provide the ETP for effluents of rolling mills to meet the standards prescribed in G.S.R 277 (E) 31 <sup>st</sup> March 2012 (applicable to IF/EAF) as amended from time to time.	Not applicable, as no industrial effluent is being generated from the unit.

vii.	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.	Proper drainage system has been provided to collect the run-off.
viii.	The project proponent shall practice rainwater harvesting to the maximum possible extent. The project proponent shall not adopt ground water recharge within plant premises to avoid underground contamination due to deposition of pollutants on roof top being highly dense industrial area. As committed, the industry shall adopt village Pond having 8093.71 sq.m located in the Village Bhmarsi Jer, Block Sirhind, Mandi Gobindgarh for harvesting of 36,444 m <sup>3</sup> of rain water. As an additional safety measure, the stream carrying waste water of the village shall be diverted in one corner of Phytoid plants trench (designed based on the technology developed by CSIR-NEERI's) divided in different parts, the overflow of each chamber shall be allowed to enter into another chamber which will ultimately lead to purification of water and collected into pond to avoid any contamination of ground water aquifer. Pond water will percolate through natural strata (without injection) to augment the ground water and remaining water shall be used for irrigation purposes by pumping method in the nearby fields.	No rain water recharging pits has been provided within project premises. Thus, rain water recharging has been done outside of project premises by adopting pond. In this regard, Rs. 55,000/- has been given to Gram Panchayat of Village Bhmarsi Jer, Block Sirhind, Mandi Gobindgarh for pond maintenance. NOC has been obtained from Sarpanch of the Village Bhmarsi Jer regarding the same; copy of the same is enclosed as <b>Annexure 8(a)</b> . Further, in addition of the above, rain water recharging pits have been constructed in Govt. School of Village Ambey Majra, Mandi Gobindgarh. Photographs showing the constructed rain water recharging pits are enclosed as <b>Annexure 8(b)</b> .
ix.	The project proponent shall make efforts to minimize water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.	Water consumption is kept minimum in the unit. In addition to this, water efficient Induction Furnaces are installed which consume less water.

#### IV. Noise Monitoring and Prevention

S. No.	Compliance conditions	Reply
i.	Noise level survey shall be carried as per the prescribed guidelines and the report in this regard shall be submitted to the Regional Officer of the Ministry as a part of six- monthly compliance report.	Monitoring of ambient noise has been done by NABL accredited laboratory and results are found within the permissible limit. Test reports are enclosed as <b>Annexure 7(b)</b> .
ii.	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986	Results of ambient noise monitoring are found within permissible limit.

viz. 75 dB(A) during day time and 70 dB(A) during night time.
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#### V. Energy Conservation Measures

S. No.	Compliance conditions	Reply
i.	The project proponent shall provide waste heat recovery system (pre-heating of combustion air) at the flue gases of reheating furnaces.	Not applicable, as no reheating Furnace has been installed.
ii.	Practice hot charging of slabs and billets/ blooms as far as possible.	Not applicable.
iii.	Ensure installation of regenerative type burners on all reheating furnaces.	Not applicable.
iv.	Provide solar power generation on rooftops of buildings, solar light system for all common areas, street lights, parking around project area and maintain the same regularly.	Agreed.
v.	The project proponent shall provide the for LED lights in their offices and residential areas.	LED lights have been provided in offices and sheds within the project premises.

#### VI. Waste Management

S. No.	Compliance conditions	Reply
i.	Used refractories shall be recycled as far as possible.	Agreed. The same is being practiced.
ii.	Oily scum and metallic sludge recovered from rolling mills ETP shall be mixed, dried, and briquetted and reused melting Furnaces.	Not applicable, as no industrial effluent is being generated from the unit.
iii.	100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.	There is generation of APCD dust from the industrial unit which is being given to M/s Madhav KRG Ltd. (earlier known as M/s Madhav Alloys Pvt. Ltd.). Agreement has been done in this regard and copy of the same is enclosed as <b>Annexure 9</b> . Further, non-hazardous slag generated from the industrial unit is being given for co- processing.
iv.	The waste oil, grease and other hazardous waste shall be disposed of as per the Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016.	Authorization of hazardous waste has been obtained from PPCB; copy of the same is enclosed as <b>Annexure 4</b> . Further, agreement has been done with M/s Madhav KRG Ltd. earlier known as M/s Madhav Alloys Pvt. Ltd. for

		disposal of APCD dust; copy of the agreement is enclosed as <b>Annexure 9</b> .
v.	Kitchen waste shall be composted or converted to biogas for further use. (to be decided on case to case basis depending on type and size of plant).	Agreed.

### VII. Green Belt

S. No.	Compliance conditions	Reply
i.	Green belt shall be developed in an area equal to 33% of the plant area with a native tree species (having wide canopy type structure and especially trees not grass) in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant as assured during the presentation. The industry shall ensure that most of the periphery shall be provided with green belt by removing the unwanted/non-productive structures already provided in the existing project near the boundary wall. Wide canopy trees shall also be planted around the parking area to provide shade to the parked vehicles.	Agreed. Adequate green area has been provided within project premises. Photographs showing the green area are enclosed as <b>Annexure 6</b> .
ii.	The additional land of 0.41 acres proposed to be added for the expansion project to fulfill the 33% requirement of green belt shall not be used for any other purpose.	Agreed.
iii.	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the program for reduction of the same including carbon sequestration including plantation.	Agreed.

### VIII. Public Hearing and Human Health issues

S. No.	Compliance conditions	Reply
i.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Emergency preparedness plan is being implemented in the industrial unit.
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) has been provided to workers for safety. Further, heat stress analysis will be done

	Personal Protection Equipment (PPE) as per the norms of Factory Act.	for workers working in high temperature work zone.												
iii.	Provision shall be made for the housing of 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.	Not applicable, as no construction was going on.												
iv.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	All the workers are covered under ESI Scheme. Regular health checkup of the workers is being done and record of the same will be maintained.												
v.	The project proponent shall carry out the following activities apart from CER activities and spent an amount as committed during the public hearing as per the public hearing. <table border="1" data-bbox="316 992 901 1507"> <thead> <tr> <th>Sr. No.</th> <th>Expenditure on Public Hearing Action Plan</th> <th>Expenditure (in Rs.)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Providing toilets in the Govt. Girls School located in the Village Chattarpur.</td> <td>2,75,000</td> </tr> <tr> <td>2.</td> <td>Construction of shed in cremation ground of Village Ambey Majra.</td> <td>2,00,000</td> </tr> <tr> <td></td> <td><b>Total</b></td> <td><b>4,75,000</b></td> </tr> </tbody> </table>	Sr. No.	Expenditure on Public Hearing Action Plan	Expenditure (in Rs.)	1.	Providing toilets in the Govt. Girls School located in the Village Chattarpur.	2,75,000	2.	Construction of shed in cremation ground of Village Ambey Majra.	2,00,000		<b>Total</b>	<b>4,75,000</b>	Activities undertaken as committed during public hearing are given below: <ul style="list-style-type: none"> <li>Rs. 1,73,400/- have been spent on the construction of toilets in Govt. Girls School at Village Chattarpur.</li> <li>Rs. 211,390 /- have been spent on construction of shed in cremation ground of Village Ambey Majra.</li> </ul>
Sr. No.	Expenditure on Public Hearing Action Plan	Expenditure (in Rs.)												
1.	Providing toilets in the Govt. Girls School located in the Village Chattarpur.	2,75,000												
2.	Construction of shed in cremation ground of Village Ambey Majra.	2,00,000												
	<b>Total</b>	<b>4,75,000</b>												

#### IX. Corporate Environment Responsibility: -

S. No.	Compliance conditions	Reply
i.	The project proponent shall comply with the provisions contained in this Ministry's OM vide F. No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility. The project proponent shall adhere to the commitments made in the proposal for CER activities for spending atleast minimum amount of Rs. 3 Lacs towards following CER activities:	CER activities as committed are being undertaken. Details of the same are given below: <ul style="list-style-type: none"> <li>Rs. 1,11,444/-</li> </ul>

S. No.	CER Activities	Annual Expenditure (in Lakhs)	Timeline	Total Expenditure in 6 months (in Lakhs)	
1.	Education-maintenance of Building of Govt. High School located at village Ambey Majra & providing uniform to the poor & needy students	1,50,000	Within six months from grant of EC	1,50,000	<p>spent on maintenance of Building of Govt. High School village Ambey Majra.</p> <ul style="list-style-type: none"> <li>Rs. 1,00,000/- spent for installation of Solar street lights in Village Ambey Majra.</li> <li>Rs. 59,195/- has been spent on Plantation along rivulet in Village Ambey Majra.</li> </ul>
2.	Electrification- Provide & install solar street lights in Village Ambey Majra	1,00,000	Within six months from grant of EC	1,00,000	
3.	Plantation along Village Ambey Majra Rivulet	50,000	Within six months from grant of EC	50,000	
<b>Total</b>		<b>3,00,000</b>		<b>3,00,000</b>	
<p>However, CER activities shall strictly be in accordance with the activities listed out in the OM dated 01.05.2018 and as per the proposal submitted by the project proponent. The amount to be spent on CER activities shall be proportionate to the amount spent on project &amp; such activities shall run parallel to the project execution. All the activities must be completed with the completion of the project.</p>					
ii.	<p>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 procedures 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/ deviation/ violation of the environmental/ forest/ wildlife norms/ conditions to all/ or shareholders/ stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&amp;CC as a part of six-monthly report.</p>				<p>Company has well defined environment policy; copy of the same is enclosed as <b>Annexure 10.</b></p>

iii.	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of Senior Executive, who will directly report to the head of the organization.	Environment management cell has been constituted to deal with environment related matters.
iv.	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. The project proponent shall spend a minimum amount of Rs. 61.5 Lacs towards the capital cost and Rs. 10.05 Lacs/annum towards recurring cost. The entire cost of the environmental management plan will continue to be borne by the project proponent. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report. Year wise progress of implementation of action plan shall be reported to the Ministry/ Regional along with Six Monthly Compliance Report.	Agreed. Entire cost of environmental management plan is being borne by the company and details has been submitted with six monthly compliance report.
v.	Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.	Agreed.
vi.	Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	Agreed.
vii.	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the plants shall be implemented.	Agreed.

#### X. Validity

S. No.	Compliance conditions	Reply
i.	This environmental clearance will be valid for a period of seven years from the date of its issue or till the completion of the project, whichever is earlier.	Environment Clearance has been granted by SEIAA, Punjab vide Letter No. SEIAA/2019/754 dated 22.08.2019 and is valid till 21.08.2026 as per EIA Notification & its amendment; copy of the EC letter is attached along as <b>Annexure 1</b> .

#### XI. Miscellaneous

S. No.	Compliance conditions	Reply
i.	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and	Designing of company's website is in- process. Therefore, EC letter will be uploaded once company's



	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.	website get designed.
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.	Copy of Environmental Clearance letter has been submitted to local concerned departments.
iii.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	Designing of company's website is in- process. Therefore, EC letter will be uploaded once company's website get designed.
iv.	The project proponent shall monitor the criteria pollutants level namely; PM <sub>10</sub> , SO <sub>2</sub> , NO <sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	Environment data board has been displayed near main gate. Photograph showing the same is enclosed as <b>Annexure 6</b> .
v.	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the Ministry of Environment, Forest and Climate Change at environment clearance portal.	Six monthly compliance report for period ending 31.03.2022 has been uploaded on Parivesh portal. Screenshot of the same is enclosed as <b>Annexure 11(a)</b> . Further, six monthly compliance report has been submitted to RO, MoEF&CC through mail. Copy of the same is enclosed as <b>Annexure 11(b)</b> .
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.	Agreed. Form V will be submitted to RO, PPCB.
vii.	The project proponent shall inform the Regional Office of the Ministry and PPCB, the date of financial closure and final approval of the	Consent to Establish for Expansion has been obtained prior to installation of new Induction

	projects by the concerned authorities, commencing the land development work and start of production operation by the project.	Furnaces and other machinery. Further, Consent to Operate has been obtained from PPCB; copy of the same is enclosed as <b>Annexure 2.</b>
i.	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Stipulations made by the Punjab Pollution Control Board and State Government are being strictly followed.
ii.	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.	All the commitments and recommendations made in EIA report, during Public Hearing and during their presentation to SEAC/ SEIAA, Punjab are being complied.
viii.	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).	Agreed. If any changes or further expansion will be done, then fresh application will be filed to SEIAA, Punjab.
ix.	Concealing factual data or submission of false/ fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Agreed.
x.	The SEIAA/ Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Agreed.
xi.	The SEIAA/ Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time-bound manner shall implement these conditions.	Agreed.
xii.	The Regional Office of 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.	Agreed. Full cooperation will be extended to the officer of the Regional Office and PPCB by furnishing the requisite data/ information/ monitoring reports during their visit.
xiii.	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with	Agreed.

	their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/ High Courts and any other Court of Law relating to the subject matter.	
xiv.	Any appeal against this EC 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.	Not applicable as 30 days' time period was over and no appeal was made.

## **XII. Additional Specific Conditions decided during the meeting of SEAC**

<b>S. No.</b>	<b>Compliance conditions</b>	<b>Reply</b>
i.	The project proponent shall provide STP for treatment of waste water & reutilization of the treated water for core/non-core activities so as to achieve the Zero Liquid Discharge Condition as per the III (iv) of OM dated 09/08/2018 issued by the MoEF&CC for such units.	STP has not been installed within project premises, as domestic wastewater is being discharged into MC sewer connected.
ii.	The project proponent shall reuse of cooling tower blow down, simultaneously ensuring the standards prescribed for such purge waters. If required, necessary arrangements shall be made to keep this waste stream within the parameters required for reuse.	Agreed.
iii.	The project proponent shall reserve land for loading or unloading of raw material, products, slag, hazardous waste as well as for storage of these materials and the area to be reserved for parking. The area to be reserved by considering the time required for loading and unloading of vehicles for respective activities and minimum/maximum period for which storage of the above material is required in the premises. The areas for the respective activities to be marked on the layout plan.	Adequate area for storage of raw material, finished products, slag and hazardous waste etc. has been provided within the project premises as per the layout plan.
iv.	The project proponent shall comply with the standard operating procedures and upgradation of suction and treatment arrangement for the secondary emissions as prescribed by the State Pollution Control Board or by CPCB/MoEF&CC.	Agreed. Standard operating procedures and up-gradation of suction and control arrangement for the secondary emissions will be done as prescribed by the Punjab Pollution Control Board/ CPCB/MoEF&CC.
v.	Whole of the vehicle movement area as well as approach road to the gate/weighing bridge shall be paved with pucca/metalled/cement concrete road	Movement area and approach road is paved to control dust emissions.

	to control the dust emissions expected from the vehicle movement.	
vi.	The vehicles to be used for loading/unloading purpose shall not be parked along roadside so as to avoid the traffic congestion and dedicated parking place to be provided for the same.	Adequate parking area has been provided for staff parking and loading/ unloading of the vehicles carrying raw material and finished products to ensure no traffic congestion.
vii.	The project proponent shall adopt green technologies to conserve the water and energy including shearing/ cutting/ bundling machines. Also to provide abrasive resistant fire bricks in the crucibles to reduce the periodic maintenance & disposal of discarded fire bricks.	Agreed.
viii.	The project proponent shall use natural gas (if available) as substitute fuel wherever possible in the existing industry/ for expansion project.	Agreed. Natural gas will be utilized to maximum extent whenever possible.
ix.	The project proponent shall take necessary action w.r.t. the following: - a) Recovery of iron from slag before disposing of it. b) Identify the areas for utilization of slag in a scientific manner and its usage in cement/construction industry/ road laying etc. c) Recovery of precious metals like Zinc, lead and iron etc. from the APCD dust (Hazardous Waste) through authorized re-processor.	a) Iron recovery has been done from slag within the project premises and remaining is given for co-processing. b) Iron recovery has been done from slag within the project premises and remaining is given co-processing. c) Agreement has been done with M/s Madhav KRG Ltd. (earlier known as M/s Madhav Alloys Pvt. Ltd.) for disposal of APCD dust for zinc recovery; copy of the agreement is enclosed as <b>Annexure 9</b> .
x.	The project proponent shall obtain mandatory clearances under Pollution Control laws.	Agreed.



TC-7477

## TEST REPORT

ULR No. : TC747722000009093F		Test Report No. : EL141122NW013	
Type of Sample : Water (Ground Water)		Date of Reporting : 17/11/2022	
Customer	Jagat Metals Pvt. Ltd. Vill. Ambey Majra, Near 220KV Power House, Mandi Gobindgarh, Teh. Amloh, Distt: Fatehgarh Sahib, Punjab	Work Order No. & Date	EMS/WO/4556 DT:01.11.2022
		Customer reference No. (if any)	NA
Sampling Protocol	IS:17614 (P-1) 2021	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	14/11/2022	Date of Receipt of Sample	14/11/2022
Sampling Location	At Project Site	Testing Location	Permanent Facility
Testing Protocol	IS:10500-2012 (IInd Revision)	Period of Analysis	14/11/2022 To 17/11/2022
Sample Description	Clear, colourless liquid.		
Packing, Markings, Seal & Qty.	2 litre Plastic & 250ml Glass Bottle Marked 'B/14/W1'		

## RESULTS

### I-Chemical Testing

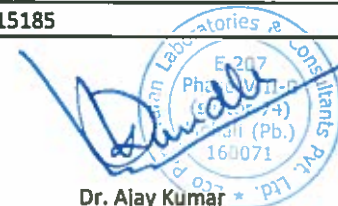
#### 1. Water (Ground Water)

S.No.	Test Parameter	Unit	Result	Acceptable limit	Permissible limit in absence of alternate source	Test Method
1	Colour	Colour Units	BDL(DL5)	5	15	IS: 3025 (Part-4)Cl 2.0
2	Odour	-	Agreeable	Agreeable	Agreeable	IS:3025 (Part-5)
3	pH @ 25°C	-	7.35	6.5-8.5	No relaxation	IS:3025 (Part-11)
4	Taste	-	Agreeable	Agreeable	Agreeable	IS: 3025 (Part-8)
5	Turbidity	NTU	BDL(DL1)	1	5	IS 3025 (Part-10)
6	Chloride as Cl	mg/l	15	250	1000	IS: 3025 (Part-32)
7	Iron as Fe	mg/l	0.17	1.0	No relaxation	APHA-23rd Ed -3500Fe-B Phenanthroline Method
8	Total hardness as CaCO <sub>3</sub>	mg/l	248	200	600	IS :3025 (Part-21)

### II -Biological Testing

#### 1. Water (Ground Water)

S.No.	Test Parameter	Unit	Result	Acceptable limit	Permissible limit in absence of alternate source	Test Method
1	Total coliform	CFU/100ml	Absent	Absent	-	IS:15185
2	E.coll.	CFU/100ml	Absent	Absent	-	IS:15185



Dr. Ajay Kumar

Authorized Signatory-Chemical & Biological



ULR No. : TC747722000009093F

Test Report No. : EL141122NW013

Type of Sample : Water (Ground Water)

Date of Reporting : 17/11/2022

Remarks : NA

**OTHER INFORMATION**

Abbreviation : ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions : Please refer terms and conditions on backside of Test Report (Page-1)

**\*\*End of Report\*\***



Dr. Ajay Kumar

Authorized Signatory-Chemical & Biological

## TEST REPORT



ULR No. : TC747722000009072F		Test Report No. : EL141122NS002	
Type of Sample : Soil.		Date of Reporting : 17/11/2022	
Customer	Jagat Metals Pvt. Ltd. Vill. Ambey Majra, Near 220KV Power House, Mandi Gobindgarh, Teh. Amlah, Distt: Fatehgarh Sahib, Punjab	Work Order No. & Date	EMS/WO/4556 DT:01.11.2022
		Customer reference No. (If any)	NA
Sampling Protocol	USEPA/600/R-92/128	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	14/11/2022	Date of Receipt of Sample	14/11/2022
Sampling Location	At Project Site	Testing Location	Permanent Facility
Testing Protocol	IS Method	Period of Analysis	14/11/2022 To 17/11/2022
Sample Description	Brown coloured soil.		
Packing, Markings, Seal & Qty.	10 Kg Poly Bag Marked 'B/14/S1'		

## RESULTS

### I. Chemical Testing

#### 1. Pollution & Environment (Soil)

S.No.	Test Parameter	Unit	Result	Test Method
1	pH	—	8.19	IS:2720 (Part-26) Cl-2,
2	Conductivity	mmhos/cm	0.302	IS:14767
3	Moisture Content	%	7.8	IS:2720 (Part-II) Sec-1
4	Organic Matter	%	2.7	IS: 2720 (Part XXII) Sec-1,
5	Texture	—	Sandy Loam	IS:2720 (Part-4) Cl 2,4,
6	Bulk Density	gm/cc	1.65	IS: 2720 (Part-7)

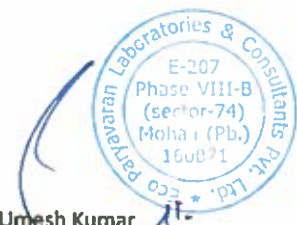
Remarks : NA

### OTHER INFORMATION

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**\*\*End of Report\*\***



Umesh Kumar  
Authorized Signatory-Chemical



## TEST REPORT

ULR No. : TC747722000009129F		Test Report No. : EL151122NN002	
Type of Sample : Ambient Noise		Date of Reporting : 17/11/2022	
Customer	Jagat Metals Pvt. Ltd. Vill. Ambey Majra, Near 220KV Power House, Mandi Gobindgarh, Teh. Amlah, Distt: Fatehgarh Sahib, Punjab	Work Order No. & Date	EMS/WO/4556 DT:01.11.2022
		Customer reference No. (If any)	NA
Sampling Protocol	IS 9989-1989, RA 2008.	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	14/11/2022	Date of Receipt of Sample	15/11/2022
Sampling Location	At Project Site	Period of Analysis	15/11/2022 To 15/11/2022
Testing Protocol	IS 9989-1989, RA 2008.		
Testing Location	On Site & Permanent Facility		

## RESULTS

### I- Chemical Testing

#### 1. Atmospheric Pollution (Ambient Noise Level)

S.No.	Test Parameters	Units	Results	Method
1	Ambient Day Time Noise Levels	dB(A)	66.1	LAB SOP: EL/SOP/AN/01, Issue No.-04, Nov 10

#### Ambient Noise Quality Standards as per Noise Pollution (Regulation and Control) Rules, 2000

Area Code	Category of Area/Zone	Limits in dB(A) Leq*	
		Day Time	Night Time
A	Industrial area	75	70
B	Commercial area	65	55
C	Residential area	55	45
D	Silence Zone	50	40

Day time shall mean from 6.00 a.m. to 10.00 p.m., Night time shall mean from 10.00 p.m. to 6.00 a.m., Silence zone is an area comprising not less than 100 meters around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority, Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.

\*dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale 'A' which is relatable to human hearing

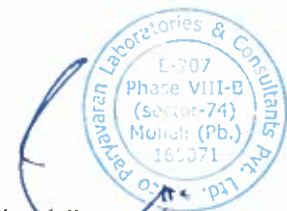
Remarks : NA

### OTHER INFORMATION

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**\*\*End of Report\*\***



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## TEST REPORT



ULR No. : TC74772200009107F		Test Report No. : EL151122NA002	
Type of Sample : Ambient Air Quality		Date of Reporting : 17/11/2022	
Customer	Jagat Metals Pvt. Ltd. Vill. Ambey Majra, Near 220KV Power House, Mandi Gobindgarh, Teh. Amlah, Distt: Fatehgarh Sahib, Punjab	Work Order No. & Date	EMS/WO/4556 DT:01.11.2022
		Customer reference No. (if any)	NA
Sampling Protocol	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) / CPCBNAAQS-2009	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	14/11/2022	Date of Receipt of Sample	15/11/2022
Sampling Location	At Project Site	Period of Analysis	15/11/2022 To 17/11/2022
Testing Protocol	IS:5182 and CPCB Air Manual Volume-I (NAAQMS/36/2012-13) / CPCBNAAQS-2009	Environmental Conditions	Partially cloudy weather
Testing Location	On Site & Permanent Facility		

## RESULTS

### I-Chemical Testing

#### 1. Atmospheric Pollution (Ambient Air)

S.No.	Test Parameter	Unit	Result	Standard	Method
1	Respirable Suspended Particulate Matter (as PM10)	µg/m <sup>3</sup>	118	100	IS: 5182 (Part-23)
2	Particulate Matter (as PM2.5)	µg/m <sup>3</sup>	69	60	Lab SOP: EL/SOP/AAQ/01, Issue No. 03, Jan 01
3	Sulphur Dioxide (as SO <sub>2</sub> )	µg/m <sup>3</sup>	12	80	IS: 5182 (Part-2)
4	Nitrogen Dioxide (as NO <sub>2</sub> )	µg/m <sup>3</sup>	26	80	IS: 5182 (Part-6)
5	Ammonia (as NH <sub>3</sub> )	µg/m <sup>3</sup>	27	400	Lab SOP: EL/SOP/AAQ/02, Issue No. -03, Jan 01
6	Ozone (as O <sub>3</sub> )	µg/m <sup>3</sup>	19	180	IS: 5182 (Part-9)
7	Carbon Monoxide (as CO),	mg/m <sup>3</sup>	0.69	04	IS: 5182 (Part-10), NDIR Method

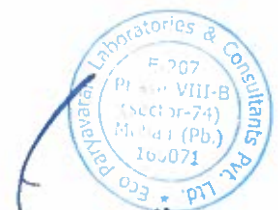
Remarks : Air quality seems deteriorated due to prevailing paddy/crop residue burning activities associated to rice harvesting season in Punjab region.

### OTHER INFORMATION

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\*\*End of Report\*\*



Umesh Kumar

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