

Letter No.: 210065-26-131

Date: 11.03.2025

To,

The Deputy Director General of Forests (C),
MoEF & CC, Integrated Regional Office, Ranchi,
2nd Floor, Headquarter – Jharkhand State Housing Board,
Harmu Chowk, Ranchi, Jharkhand – 834002.



Sub: Half yearly compliances report for the period – **April - 2024 to September - 2024** of Environmental Clearance for Pellet Plant (1.2mtpa) of M/s. Amalgam Steel Pvt. Ltd. At Village – Kandra, District – Saraikela Kharsawan, Jharkhand

Dear Sir,

We are submitting herewith half yearly compliance of Environmental Clearance pertaining to our Pellet Plant of 1.2 MTPA capacity accorded by the Ministry of Environment & Forest, Government of India vide order no. J-11011/717/2009-IA-II (I) dated: 19.07.2019 and earlier E.C Dtd: 30.12.2010. An item-wise compliance of the conditions imposed are as given here under: -

A. Specific Conditions:

Sl. No.	Conditions	Compliances
1.	Efforts shall be made to reduce RSPM levels in the ambient air and a time bound action plan should be submitted. Continuous stack monitoring facilities for all the stacks should be provided and sufficient air pollution control devices viz. Electrostatic Precipitator (ESP), bag house, bag filters etc. shall be provided to keep emission levels below 50mg/Nm ³ and installing energy efficient technology.	We have installed adequate air pollution control devices viz. Electrostatic precipitator, Bag house, Bag filters, fixed type water sprinklers (40 nos.) etc. to keep emission levels below the prescribed limit. Ambient Air Quality Monitoring Station & OCEMS systems are installed and data of which is being continuously transmitted to JSPCB & CPCB server.Periodic monitoring is also being conducted through third party (NABL Accredited Laboratory). The reports of AAQR, Stack emission, Fugitive Emission & Noise report is enclosed as Annexure 1 . All the



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		measured parameters are within the prescribed standards.
2.	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R No. 826(E) dated 16 th November, 2009 should be followed.	Being Followed. We ensure to follow the standards issued by National Ambient Air Quality by the Ministry vide G.S.R No.826(E) dtd 16 th November, 2009.
3.	Gaseous Emission levels including secondary fugitive emissions from all the sources should be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines/Code of practice issued by the CPCB should be followed. New standards for the sponge iron plant issued by the Ministry vide G.S.R 414(E) dated 30 th May 2008 should be followed.	Gaseous emissions are being continuously monitored and are within permissible limits issued by the MoEF&CC. Ambient Air Quality Monitoring Station & OCEMS systems are installed and data of which is being continuously transmitted to JSPCB & CPCB server. Guidelines/Code of practice issued by the CPCB is being followed. Water sprinkling is being done through 40 nos. of fixed sprinklers installed along the road side at plant site to control dust emissions. The photographs of the installed water sprinklers are attached as Annexure 2 .
4.	Vehicular pollution due to transportation of raw materials and finished product should be controlled. Proper arrangements should also be made to control dust emissions during loading and unloading of the raw material and finished product.	Fixed type water sprinklers of 40 nos. are provided along the road side to suppress the dust caused by vehicular movement as well as to control dust emission during loading & unloading of the raw material and finished product.
5.	Prior 'permission' for drawl of 528m ³ /day water from River Subarnarekha from the competent authority shall be obtained.	No water from River Subarnarekha is being lifted. The required water is being withdrawn from groundwater. The permission of withdrawing 450m ³ /day water is already obtained from Central Ground Water Authority. The permission letter is attached as

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		Annexure 3.
6.	Efforts shall be made to make use of rain water harvested. If needed, capacity of the reservoir should be enhanced to meet the maximum water requirement. Only balance water requirement shall be met from other sources.	Rain water harvesting is being done at the plant site. For this recharge pit is already constructed having filter media charcoal, pebbles and sand on the bed of adequate dimensions. The rain water gets filtered through these different layers and gets recharge underground water table. The photograph of the RWH Recharge Pit is attached as Annexure 4.
7.	Regular monitoring of influent and effluent surface, sub surface and ground water should be ensured and treated wastewater should meet the norms prescribed by the State Pollution control Board or described under the E(P) Act whichever are more stringent. Leachate study for the effluent generated and analysis should also be regularly carried out and report submitted to the Ministry's Regional Office at Bhubaneswar, JSPCB and CPCB.	<p>The groundwater at plant site is being monitored regularly to check any contamination. The latest groundwater monitoring report is attached as Annexure 5 which clearly depicts measured parameters are within the prescribed standards.</p> <p>The effluent generated is being collected in settling tank. After proper sedimentation, clear water is pumped out and reused for sprinkling on road for dust suppression and gardening.</p> <p>The plant follows Zero Liquid Discharge (ZLD) principle. No effluent is being discharged outside the plant boundary.</p>
8.	'Zero' effluent discharge should be strictly followed and no wastewater should be discharged outside the premises.	<p>Being Followed.</p> <p>No wastewater or sewage is being discharged outside the plant boundary.</p>
9.	The water consumption should not exceed 16m ³ /Ton of Steel as per prescribed standard.	Agreed and being adhered to.
10.	Proper handling, storage, utilization and disposal of all the solid waste shall be ensured and regular report regarding toxic metal content in the waste material and its	The solid wastes generated in plant is being properly managed and reutilized in the plant itself. Slime and fine dust are being generated in the plant.

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	consumption, end use of solid/hazardous waste should be submitted to the Ministry's Regional Office at Bhubaneswar, JSPCB and CPCB.	<p>The slime around 90,000 TPA generated from the washing of screen is being reused in the process.</p> <p>The dust collected from the Bag Filters and ESP are moistened in pug mills and reutilized in the process along with raw material.</p>
11.	A time bound action plan should be submitted to reduce solid waste, its proper utilization and disposal.	Being Pellet plant, no fly ash or slag gets generated, hence, no action plan is required. The solid waste like slime or dust generated in the plant is being utilized in the process.
12.	The risk assessment report / Disaster Management Plan shall be prepared and a copy submitted to the Ministry's Regional Office at Bhubaneswar, JSPCB and CPCB within 3 months of issue of environmental clearance letter.	The Risk Assessment Report / Disaster Management Plan have already been prepared and a copy of the same is attached as Annexure 6 .
13.	As proposed, green belt shall be developed in 24 acres of plant area all around the plant. The selection of plant species shall be as per the CPCB guidelines.	<p>A thick green belt (approx. area 8 acres) of adequate width has been developed at plant site, around the plant periphery and various other locations.</p> <p>The photographs of green belt development are attached as Annexure 7. The plant species are selected as per the CPCB guidelines.</p>
14.	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plants should be implemented.	The compliances as per CREP guideline are attached as Annexure 8 .
15.	All the commitments made to the public during Public Hearing/ Public Consul. meeting held on 5 th Oct 2010 should be satisfactorily implemented & separate budget for implementing the same should be allocated & information submitted to the Ministry's Regional Office at Bbsr.	All the commitments made to the public during Public Hearing/ Public Consultation meeting has been implemented satisfactorily.

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16.	At least 5% of the total cost of the project should be earmarked towards the CSR & item-wise details along with time bound action plan should be prepared & submitted to the Ministry's Regional Office at Bbsr. Implementation of such program should be ensured accordingly in a time bound manner.	The company has initiated many programs under CSR activities for community development like educational training, safe drinking water & sanitation, health, education infrastructure development etc. and maintaining good and clean environment. About Rs. 1.51 Cr have been spent in 2023-24 and about Rs. 1.56 Cr. spent till Nov 2024 under CSR. The detail summary of various programs conducted under CSR is attached as Annexure 9 .
17.	The company shall provide housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Already Complied, as the plant has been commissioned and currently in operation with valid CTO.

B. General Conditions

Sl. No.	Conditions	Compliances
1.	The project authorities must strictly adhere to the stipulations made by the Jharkhand State Pollution Control Board and the State Government.	Agreed and being adhered to.
2.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	Agreed.
3.	The gaseous emissions from various process units shall conform to the load/mass-based standards notified by this Ministry on 19 th May, 1993 and standards prescribed from time to time. The State board may specify more stringent standards for the relevant	We have installed adequate air pollution control devices viz. Electrostatic precipitator, Bag house, Bag filters, fixed type water sprinklers (40 nos.) etc. to keep emission levels below the prescribed limit.

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	parameters keeping in view the nature of the industry and its size and location.	<p>Ambient Air Quality Monitoring Station & OCEMS systems are installed and data of which is being continuously transmitted to JSPCB & CPCB server.</p> <p>Periodic monitoring is also being conducted through third party (NABL Accredited Laboratory). The reports of AAQMS, Stack emission, Fugitive Emission & Noise report is enclosed as Annexure 1. All the measured parameters are within the prescribed standards.</p>
4.	At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM ₁₀ , SO ₂ , and NO _x are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Bhubaneswar and the SPCB/CPCB once in six months	<p>CAAQMS has been installed as per the locations finalized by the Jharkhand State Pollution Control Board. Photographs of the same is attached as Annexure 10.</p> <p>The data generated from Ambient Air Quality Monitoring Station & OCEMS systems are being regularly submitted to MoEF&CC, JSPCB and CPCB once in six months.</p>
5.	Industrial waste water 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 waste water shall be utilized for plantation purpose.	The effluent generated is being collected in settling tank. After proper sedimentation, clear water is pumped out and reused for sprinkling on road for dust suppression and gardening.
6.	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules 1989 viz. 75 dBA (day time) and 70dBA (night time).	Industry is taking adequate precautions to control noise levels within the specified limit as per EPA Rule 1989. Preventative maintenance is carried out regularly. Advanced technology and sophisticated instruments are used to maintain noise levels within prescribed standards. Monitoring of Noise level is being carried out on regular basis. Ref:

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		Annexure 1.
7.	Occupational health surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.	Routine Health Checkup in OHC is carried out periodically.
8.	The company shall develop surface water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	Rain water harvesting is being done at the plant site. For this recharge pit is already constructed having filter media charcoal, pebbles and sand on the bed of adequate dimensions. The rain water gets filtered through these different layers and gets recharge underground water table. The photograph of the RWH Recharge Pit is attached as Annexure 4.

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9.	<p>The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.</p>	<p>We are complying all the environmental protection measures and safeguards recommended in the EIA/EMP report.</p> <p>We have installed adequate air pollution control devices viz. electrostatic precipitator, bag house, bag filters, water sprinkler, settling tank, etc. to keep the emission levels well below the prescribed limits.</p> <p>Ambient Air Quality Monitoring Station & OCEMS systems are installed and data of which is being continuously transmitted to JSPCB & CPCB server.</p> <p>Regular CSR activities like community development programme, educational programme, drinking water supply and health care etc. are carried out every year in the surrounding villages. Brief summary about various programs conducted under CSR is attached as Annexure 9.</p>
10.	<p>Requisite amount shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Bhubaneswar. The funds so provided shall not be diverted for any other purpose.</p>	<p>Adequate funds have been provided for the environment pollution control measures. Necessary measures have already been undertaken for environmental pollution. The funds earmarked for the environmental pollution control are not diverted for any other purposes.</p>
11.	<p>A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila</p>	<p>Already Complied.</p>

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	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 website of the company by the proponent.	
12.	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 Regional Office of the MOEF at Bhubaneswar, the respective Zonal office of CPCB and the CECB. The criteria pollutant levels namely PM ₁₀ , SO ₂ , 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.	Six Monthly Compliance Report of along with the monitoring data are regularly submitted to IRO, MoEF&CC, Ranchi, Central Pollution Control Board (CPCB) and Jharkhand State Pollution Control Board (JSPCB). The photograph of digital display board showing PM ₁₀ , SPM, Temp. etc. is attached as Annexure 11 .
13.	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 Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Bhubaneswar/ CPCB/SPCB shall monitor the stipulated conditions.	Six Monthly Compliance Report on the status of the stipulated environmental conditions along with the monitoring data (both in hard copies as well as by e-mail) are regularly submitted to IRO, MoEF&CC, Ranchi, Zonal Office of Central Pollution Control Board (CPCB) and Jharkhand State Pollution Control Board (JSPCB).
14.	The environmental statement for each F.Y ending 31 st 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	Environmental Statement in Form-V (as mandated) are regularly submitted for each year to the Jharkhand State Pollution Control Board with a copy to the regional office of MoEF&CC at Ranchi, as prescribed under the Environment Protection Rules, 1986. Copy of the same is attached as

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	compliance of environmental conditions and shall also be sent to the respective Regional Office of MOEF at Bhubaneswar by e-mail.	Annexure 12.
15.	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with SPCB and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the regional office at Bhubaneswar.	A copy of Environmental Clearance is submitted to JSPCB. Advertisement of the Environmental Clearance has been published in two local newspapers namely The Prabhat Khabar and The Uditbani on 7 th January 2011 in the local languages widely circulated in the region. Copy of the advertisement is attached as Annexure 13 . A copy of the same already forwarded to the regional office at Ranchi.
16.	Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Accepted. Financial closure is 31 st March, whereas land development work was started on 2010-11 and CTE was obtained on 23.03.2011 and CTO was received on 17.10.2011.

This is for your kind information for the time being.

Thanking you with regards.

Yours faithfully,



Authorised Signatory,
for Amalgam Steel Private Ltd

Encl: As above.

- Copy to: 1. The Member Secretary, JSPCB, Ranchi
 2. The Chairman, CPCB, Kolkata, West Bengal
 3. The Regional Officer, JSPCB, Adityapur, Jharkhand