

F. No. J-11011/899/2007-IA. II (I)
Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

Indira Paryavaran Bhawan
Jor Bagh Road, Aliganj,
New Delhi – 110003
E-mail: dirind-moefcc@gov.in
Tel: 011-24695368

Dated: 21st January, 2020

To

Shri. V.S.V. Giridhar,
President,
M/s. Amalgam Steel and Power Limited,
Avani Signature, 4th floor, Unit 401 A,
91A/1, Park Street,
Kolkata – 700016.

Subject: Transfer of Environmental Clearance titled "*Expansion of Sponge Iron Plant to Integrated Mini Steel Plant (0.5 MTPA) at village Kandra, Tilopada, Bankipur and Raimara in Gamharia Block, District Saraikela-Kharswan, Jharkhand*" from M/s. Adhunik Alloys & Power Limited to M/s. Amalgam Steel & Power Limited – **regarding.**

Ref. : (i) Ministry's EC letter No. J-11011/899/2007-IA-II (I) dated 12/03/2009
(ii) Online proposal no. IA/JH/IND/124105/2019 dated 18/11/2019 and subsequent letter no. Nil dated 18/12/2019.

Sir,

1. Reference is invited to your online proposal no. IA/JH/IND/124105/2019 dated 18/11/2019 and subsequent letter no. Nil dated 18/12/2019 seeking transfer of Environmental Clearance cited above from M/s. Adhunik Alloys & Power Limited to M/s. Amalgam Steel & Power Limited.
2. The Ministry of Environment, Forest and Climate Change (MoEF&CC) has examined the request submitted by you. It is noted that transfer of Environmental Clearance is arising from the Order dated 7/12/2018 of National Company Law Tribunal, Kolkata Bench, Kolkata regarding approval of the resolution plan submitted by M/s. Bhagwati Power and Steel Limited. In order to facilitate better functioning of the insolvent company, the management has now decided to change the company name from M/s. Adhunik Alloys & Power Limited to M/s. Amalgam Steel & Power Limited.
3. It is also noted that following documents have been submitted for the transfer of Environmental Clearance:
 - i. Form No.7 for transfer of Environmental Clearance.
 - ii. Order dated 7/12/2018 of National Company Law Tribunal, Kolkata Bench, Kolkata regarding approval of the resolution plan submitted by M/s. Bhagwati Power and Steel Limited.

Transfer of Environmental Clearance titled "Expansion of Sponge Iron Plant to Integrated Mini Steel Plant (0.5 MTPA) at village Kandra, Tilopada, Bankipur and Raimara in Gamharia Block, District Saraikela-Kharswan, Jharkhand" from M/s. Adhunik Alloys & Power Limited to M/s. Amalgam Steel & Power Limited

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- iii. No Objection Certificate dated 22/10/2019 of M/s. Adhunik Alloys & Power Limited in a non-judicial stamp paper for transferring the environmental clearance letter dated 12/03/2009 to M/s. Amalgam Steel & Power Limited.
 - iv. Undertaking dated 25/10/2019 of M/s. Amalgam Steel & Power Limited in a non-judicial stamp paper stating that they will be complying with the environmental safeguards mentioned in the environmental clearance letter dated 08/08/2003.
 - v. Authorization letter from Director of M/s. Amalgam Steel & Power Limited enabling Shri.V.S.V.Giridhar, President to sign and execute documents with MoEF&CC in respect of Environmental Clearance of M/s. Amalgam Steel & Power Limited.
 - vi. Memorandum and Articles of Association of M/s. Amalgam Steel & Power Limited.
 - vii. Certificate of Incorporation issued by the Registrar of Companies, Ministry of Corporate Affairs.
4. This Ministry has no objection for transfer of Environmental Clearance accorded vide letter no. J-11011/899/2007-IA-II (I) dated 12/03/2009 from M/s. Adhunik Alloys & Power Limited to M/s. Amalgam Steel & Power Limited subject to satisfactory compliance to all the stipulated specific and general conditions. You are also requested to obtain 'Consent to Operate' from the Jharkhand State Pollution Control Board in the name of M/s. Amalgam Steel & Power Limited.
 5. M/s. Amalgam Steel & Power Limited shall comply with the all specific and general conditions stipulated in the Environmental Clearance letter of even no. dated 12/03/2009.
 6. In case, there is a change in the scope of the project, fresh Environmental Clearance shall be obtained.

This issues with the approval of the Competent Authority.

Yours faithfully,

(A.K. Agrawal)
Director

Copy to:-

1. Secretary, Department of Environment, Government of Jharkhand, Secretariat, Ranchi.
2. Deputy Director General (C), Ministry of Environment and Forest, Regional Office (ECZ), Bungalow No. A-2, Shyamali Colony, Ranchi-834002.
3. Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
4. Chairman, Jharkhand State Pollution Control Board, T.A. Division Building (Ground Floor), HEC Campus, P.O. Dhurwa, Ranchi - 834004, Jharkhand.
5. Member Secretary, Central Ground Water Authority, West Block -II, Wing -3, Sector I, R.K.Puram, New Delhi - 110086.
6. District Collector, Saraikela-Kharwan District, Jharkhand.
7. Guard File / Record File / Monitoring File.
8. MoEF&CC Website.

(A.K. Agrawal)
Director

Transfer of Environmental Clearance titled "Expansion of Sponge Iron Plant to Integrated Mini Steel Plant (0.5 MTPA) at village Kandra, Tilopada, Bankipur and Ramnara in Gambaria Block, District Saraikela-Kharwan, Jharkhand" from M/s. Adhunik Alloys & Power Limited to M/s. Amalgam Steel & Power Limited.

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Ministry of Environment and Forests
(I.A. Division)

Paryavaran Bhawan
CGO Complex, Lodhi Road
New Delhi - 110 003

E-mail : pb.rastogi@nic.in
Telefax : 011: 2436 7668
Dated 12th March, 2009

To, ✓
M/s Adhunik Alloys & Power Ltd.
208-209, 2nd Floor, Padma Tower-II
22, Rajendra Place
New Delhi-110 008

E-mail : alokjha@adhunikgroup.com / vikasgupta@adhunikgroup.com /
subhashjetly@gmail.com
Fax No. : 011-25860811/ 0657-2227980

Subject : Expansion of Sponge Iron Plant to Integrated Mini Steel Plant (0.5 MTPA) at Village Kandra, Tilopada, Bankipur and Raimara in Gamharia Block, District Saraikela-Kharsawan, Jharkhand by M/s Adhunik Alloys & Power Ltd. - Environment clearance reg.

Ref. : Your letter no. nil dated 17th August, 2007.

Sir,

This has reference to your letter no. nil dated 17th August, 2007 alongwith Form I, Pre-feasibility Report, draft Terms of References and EIA/EMP and subsequent clarifications furnished by you vide letters dated 19th September, 2008, 3rd & 20th November, 2008, 2nd January, 2009, 10th & 16th February, 2009 for environmental clearance on the above mentioned project.

2.0 The Ministry of Environment and Forests has examined the application. It is noted that proposal is for the expansion of Sponge Iron Plant to Integrated Mini Steel Plant (0.5 MTPA) at Village Kandra, Tilopada, Bankipur and Raimara in Gamharia Block, District Saraikela-Kharsawan, Jharkhand by M/s Adhunik Alloys & Power Ltd. Total land acquired is revised from 80 ha to 90 ha. No National Park and Wildlife sanctuary is located within 10 km radius of the project. Champanagar PF (Adjacent). Harisundarpur PF (2.2 Km, E), Misikudor PF (3.1 E), Ghutubera PF (0.8 Km. S), Bhaduagura PF (1.2 Km. SW) are located around the project site. Total cost of the project is Rs. 450.00 Crores. DRI Plant (2x350 TPD Kiln) installed in 2005 is existing. Following will be the manufacturing facilities:

S.N	Plant / Facility	Products	Installed Capacity (TPA)
1	DRI Plant (2x350 TPD Kiln)	Sponge Iron	2,10,000
2	Mini blast furnace (350 m ³)	Hot metal/ pig iron	2,50,000
3	Sinter Plant		3,20,000
4	Steel Melting Shop No.1 Electric arc furnace (35 T) Ladle Furnace (1x35 T) CCM (1x2 Strand)	Finished Steel	2,77,200

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5	Steel Melting Shop No.2 Induction furnace (4 x12 T) Ladle Furnace (4 x12 T) CCM (1x2 Strand)	Finished Steel	2,21,760
6	Rolling Mill		5,00,000
7	Coal washery	Washed coal	10,00,000
8	Pelletization plant	Iron ore pellets	10,00,000
9	Captive Power Plant WHRB AFBC	Power	32 MWH 68 MWH
10	Railway siding (Approx. 2 km.)		Approx. 2 km

3.0 Commercial quality steel, low medium and high carbon steel, alloy construction steel, micro-alloyed steel will be manufactured through DR-IF and DR & BF-EAF process routes. The iron ore in DRI process will be reduced to sponge iron using non-coking coal in kiln. In MBF, reduction will be achieved using imported coke. No coke oven plant will be installed. Steel making will be done using induction furnace and electric ore furnace. Power will be generated through WHRB and FBC boilers.

4.0 Electrostatic precipitator (ESP), bag house, bag filters, dust extraction system, dust suppression system will be provided to control gaseous emissions. Total water requirement from Subarnarekha River will be 25,500 m³/day and have signed an agreement with the Govt. of Chhattisgarh for the supply of 24,000 m³/day on 2nd August, 2005. Treated wastewater will be used for ash quenching, dust suppression and green belt development. 'Zero' discharge will be adopted. Washery rejects and char etc. will be used in AFBC boiler. ESP dust and sinter dust will be used in the sinter plant. ESP, bag filter dust, fly ash, MBF slag will be provided to cement/brick manufacturers. Mill scales from rolling mill will be used in sinter plant and SMS.

5.0 Public Hearing/Public Consultation meeting was held on 25th November, 2008.

6.0. The Ministry of Environment and Forests hereby accords environmental clearance to the above project under the provisions of EIA Notification dated 14th September, 2006 subject to strict compliance of the following specific and general conditions:

A. SPECIFIC CONDITIONS :

- i) Railway siding to the proposed expansion plant shall be provided before commissioning the expansion of the steel plant.
- ii) Efforts shall be made to reduce RSPM levels in the ambient air and a time bound action plan shall be submitted. Continuous stack monitoring facilities for all the stacks shall be provided and sufficient air pollution control devices viz. Electrostatic precipitator (ESP) and bag filters etc. shall be provided to keep the emission levels below 100 mg/Nm³. At no time the emission level shall go beyond the prescribed standards. Inter-locking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.
- iii) Data on ambient air quality, stack emissions and fugitive emissions shall be regularly monitored and submitted on-line to the Ministry's Regional Office at Bhubaneswar, Central Pollution Control Board (CPCB) and Jharkhand State Pollution Control Board (JSPCB) as well as hard copy once in six months. Data on SPM, SO₂ and NO_x shall also be displayed outside the premises at the appropriate place for the general public.

- iv) Electrostatic precipitator (ESP) shall be provided to DRI kilns, FBC boiler and Waste Heat Recovery Boiler (WHRB) to control air emissions within 100 mg/Nm³. Hot gases from DRI kiln shall be passed through Dust Settling Chamber (DSC) to remove coarse solids and After Burning Chamber (ABC) to burn CO completely and used in waste heat recovery boiler (WHRB). The gas then shall be cleaned in ESP before leaving out into the atmosphere through ID fan and stack. Surplus gas from blast furnace shall be cleaned in gas cleaning plant (GCP) having dust catcher and bag filter and used in AFBC boiler as fuel.
- v) Gaseous emission levels including 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. New standards issued by the Ministry for the sponge iron plant in May, 2008 shall be followed.
- vi) In-plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Dust extraction system comprising of suction hood, cyclone, wet scrubber etc. shall be provided to induction furnace (IF), blast furnace (BF) and ladle refining furnace (LRF) to control secondary fugitive emissions. Chem-jet type dust suppression system shall be provided to coal washery, transfer points, conveyors, screens, crushers etc. Fume extraction system with bag filters shall be provided to control fugitive emissions from Steel Melting Shop (SMS). Bag house shall be provided at discharge end of cooler, bin area, product hopper area. Further, specific measures like water sprinkling shall be carried out and fugitive emissions shall be controlled, regularly monitored and records maintained.
- vii) Vehicular pollution due to transportation of raw material and finished product shall be controlled. Proper arrangements shall also be made to control dust emissions during loading and unloading of the raw material and finished product.
- viii) Total water requirement from Subarnarekha River shall not exceed 24,000 m³/day as per the agreement signed with the Govt. of Chhattisgarh for the supply of 24,000 m³/day on 2nd August, 2005. Prior 'Permission' for the drawl of excess water, if any, shall be obtained from the concerned department and a copy submitted to the Ministry's Regional Office at Bhubaneswar, Orissa. No ground water shall be used. Acidic and alkaline regeneration wastewater from the demineralization unit shall be neutralized in neutralization tank. Blow down water of the GCP shall be recycled and reused as make up water for Slag Granulation Plant (SGP) to reduce fresh water consumption. The treated wastewater shall be recycled and reused for dust suppression, ash disposal and green belt development and 'Zero' effluent discharge shall be ensured. The decanted water from ash dyke shall be used for ash quenching and coal dust suppression in coal yard. No wastewater shall be discharged outside the premises. Domestic wastewater shall be treated in septic tanks followed by soak pit.
- ix) The water consumption shall not exceed 16 m³/Ton of Steel as per prescribed standard.
- x) 'Zero' effluent discharge shall be strictly followed and no wastewater shall be discharged outside the premises.
- xi) All the char from DRI plant and washery rejects from coal washery shall be utilized in AFBC boiler of power plant and no char shall be disposed off anywhere else. All the blast furnace (BF) slag shall be granulated and provided to cement manufacturers

Signature

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for further utilization. ESP, FES dust and sinter dust shall be used in the proposed sinter plant. ESP, bag filter dust and fly ash shall be provided to cement/brick manufacturers. Mill scales from rolling mill shall be used in sinter plant and steel melting shop. All the other solid waste including broken refractory mass shall be properly disposed off in environment-friendly manner. Garland drain shall be provided all around the disposal area. Oily waste shall be provided to authorized recyclers/reprocessors.

- xii) All the slag from EAF, LRF and SMS shall be used for land filling inside the plant or used as building material only after passing through Toxic Chemical Leachability Potential (TCLP) test. Toxic slag shall be disposed in secured landfill as per CPCB guidelines. Otherwise, hazardous substances shall be recovered from the slag and output waste and be disposed in secured landfill as per CPCB guidelines.
- xiii) A time bound action plan shall be submitted to reduce solid waste, its proper utilization and disposal.
- xiv) 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 composition, end use of solid/hazardous waste shall be submitted to the Ministry's Regional Office at Bhubaneswar, Jharkhand SPCB and CPCB.
- xv) A time bound action plan shall be submitted to reduce solid waste, its proper utilization and disposal to the Ministry's Regional Office at Bhubaneswar, Jharkhand SPCB and CPCB.
- xvi) Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 1999 and subsequent amendment in 2003. Fly ash shall be provided to cement and brick manufacturers for further utilization.
- xvii) As proposed, green belt shall be developed in 33 % area within and around the plant premises as per the CPCB guidelines in consultation with DFO.
- xviii) Prior permission from the State Forest Department shall be obtained regarding likely impact of the expansion of the proposed steel plant on the Champanagar PF (Adjacent), Harisundarpur PF (2.2 Km. E), Misikudor PF (3.1 E), Ghutubera PF (0.8 Km. S), Bhaduagura PF (1.2 Km. SW) and all the recommendations shall be implemented in a time bound manner.
- xix) All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plants shall be implemented.
- xx) All the commitments promised during the public hearing/consultation shall be satisfactorily fulfilled.
- xxi) 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.

B. GENERAL CONDITIONS:

- i. The project authorities must strictly adhere to the stipulations made by the Jharkhand Pollution Control Board (JSPCB) and the State Government.


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- ii. No further expansion or modifications in the plant should be carried out without prior approval of the Ministry of Environment and Forests.
- iii. The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19th May, 1993 and standards prescribed from time to time. The state Board 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 level shall go beyond the prescribed standards. Interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.
- iv. At least four ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of SPM, SO₂ and NO_x are anticipated in consultation with the Jharkhand SPCB. Data on ambient air quality and stack emission should be regularly submitted to this Ministry including its Regional Office at Bhubaneswar and the Jharkhand SPCB/CPCB once in six months.
- v. 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.
- vi. 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 (daytime) and 70 dBA (nighttime).
- vii. Occupational Health Surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- viii. The company shall develop surface as well as ground water harvesting structures to harvest the rainwater for utilization in the lean season besides recharging the ground water table.
- ix. 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.
- x. As proposed, Rs. 17.21 Crores and rs. 6.49 Crores shall be earmarked towards total capital cost and recurring cost /annum for the environmental pollution control measures shall be judiciously utilized to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purpose.
- xi. The Regional Office of this Ministry at Bhubaneswar / CPCB / Jharkhand SPCB will monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.



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xii. 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 the JSPCB 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 shall be forwarded to the Regional office.

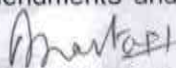
xiii. Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.

7.0. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

8.0. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.

9.0. Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Act, 1997.

10.0. 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 Wastes (Management and Handling) Rules, 2003 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules


(Dr. P. B. Rastogi)
Director

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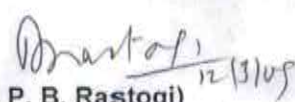
1. The Secretary, Department of Environment, Govt. of Jharkhand, Jharkhand.
2. Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
3. Chairman, Jharkhand Pollution Control Board, Jharkhand, Town Administrative Building, H.E.C., Dhruwa, Raanchi - 824004, Jharkhand.
4. The Chief Conservator of Forests (Eastern), Regional Office (EZ), A/3, Chandrasekharpur, Bhubaneswar - 751 023, Orissa.
5. Adviser (IA-II), Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
6. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
7. Monitoring Cell
8. Guard File.
9. Record File.



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President

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