



## State Level Environment Impact Assessment Authority, Jharkhand.

Nursery Complex, Near Dhurwa Bus Stand, Dhurwa, Ranchi, Jharkhand-834 004.

E-mail: [msseiaa.jhk@gmail.com](mailto:msseiaa.jhk@gmail.com)/[chr-seiaajhr@gov.in](mailto:chr-seiaajhr@gov.in)

website: [www.jseiia.org](http://www.jseiia.org)

Letter No.- EC/SEIAA/2021-22/2167/2021/67

Ranchi, Date: 15/07/2021

To: **Balmukund Sponge and Iron Pvt. Ltd.**  
(Manager),  
**M/s Balmukund Sponge and Iron Pvt. Ltd.,**  
**Village - Manjhiladih, P.O. - Gadisrirampur**  
**Dist – Giridih, Jharkhand.**

**Sub.: Environmental Clearance for the project “Modernization & Expansion of Steel Melting Shop and Rolling Mill of M/s Balmukund Sponge & Iron Pvt. Ltd. (Mega Div.) at Village : Manjhiladih, P.O. : Gadi Srirampur, Dist. : Giridih, Jharkhand” (Proposal No. : SIA/JH/IND/39010 /2019) – regarding.**

**Ref:** Your letter no. Nil, dated : 15.06.2021.

Sir,

It is in reference to the project “**Modernization & Expansion of Steel Melting Shop and Rolling Mill of M/s Balmukund Sponge & Iron Pvt. Ltd. (Mega Div.) at Village : Manjhiladih, P.O. : Gadi Srirampur, Dist. : Giridih, Jharkhand**” submitted by you for seeking prior Environmental Clearances (EC).

This is a expansion project which has been taken for appraisal on 24.06.2021.

This project was appraised by previous SEAC in 79<sup>th</sup> meeting held on 26-27.09.2019. Thereafter, a ToR was granted by SEIAA vide letter no. 565, dated 21.10.2019. The final EIA / EMP submitted by PP to SEIAA on 15.06.2021. This was forwarded to SEAC on 17.06.2021.

BALMUKUND SPONGE & IRON PVT.LTD.is a company incorporated on 14th July 1999 having its registered office at 603, Shanti Kunj Apartment, Chajubagh, Patna –1. The Company is promoted by Sri Nawal Kumar Kanodia. The existing manufacturing facility MBF (1x110 TPD), Induction Furnaces (4x7 MT & 1x15 MT = 350 TPD) with CCM, Iron Ore Beneficiation Plant (94000 TPA Throughput) & one ReRolling Mill (50 TPD) of the company is located at Manjhiladih, Chatro Tundi Road, P.O. Gadisrirampur, Dist. Giridih (Jharkhand) which is ideally located in terms of raw material, power, skilled man power and logistics.

The Company has obtained Consent to Establish (CTE) vide letter No. N-356 dated 13.06.2005 for establishment of Induction Furnaces of 60 TPD and Rolling Mill of 50 TPD. The Company has also obtained Environmental Clearance from MoEF & CC, Govt. of India vide F. No. J-11011/870/2008-IA II (I) Dt: 28th Jul.' 2010. Consent to Establish (CTE) was granted by JSPCB vide Memo No. 3576 Dt: 18.07.2008 for MBF (1x110 TPD, 39000 TPA) & vide letter No. EC/SEIAA/2013-14/297/2014/1525 Dt: 25.08.2015 for Induction Furnaces (2x7 MT & 1x15 MT = 290 TPD, 102660 TPA) with CCM, Iron Ore Beneficiation Plant (94000 TPA Throughput) from

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SEIAA, Jharkhand & CTE vide letter No.B4109 dt.16.10.2015 from JSPCB, Jharkhand has been obtained.

The Company has obtained Consent to Operate vide letter under Ref. No. JSPCB/HO/RNC/CTO-2335595/2018/1314 dated 13.08.2018 valid till 30.06.2020 for all the units referred herein from Jharkhand State Pollution Control Board.

The proposed manufacturing facilities of M.S. Billet – 150168 TPA, TMT Rod/M.S. Coil – 246926 TPA (After Modernization -M.S. Billet – 274068 TPA, TMT Rod/M.S. Coil – 246926 TPA) & two Induction Slag Grinders having grinding capacity of 47000 TPA segregating 3760 TPA of Iron Metal for the Company will be located at Manjhiladih, Chatro Tundi Road, P.O. Gadisrirampur, Dist. Giridih (Jharkhand) within the existing industrial premises.

The proposed enhancement by modernization of existing facility will take place in existing premise at Manjhiladih P.O. Gadisrirampur, Dist. Giridih in the State of Jharkhand on Survey Total land of 26.354 Acres at mouza Manjhiladih, Distt. Giridih out of which 4.9375 Acre land in Thana No.267 Khata no.5,20,30,33,38,39 & 79 Plot No. 942, 943, 944, 945, 946, 947, 955, 958, 965, 966, 967, 968, 973, 982, 984, 985, 987 & 988. The site lies at latitude 24°7'9.36"N and longitude 86°21'15.62"E.

The cost of the project, estimated at Rs 41.55 Crore and a provision of capital cost 65 Lakh, recurring cost Rs 17 Lakh per year has been indicated for Environment Management Plan.

#### **Raw Material Required:**

Facilities	Raw Material	Existing Quantity in TPA	Additional/ proposed Quantity in TPA	Total quantity required after expansion
M.S. Billet	Sponge Iron	97400	115500	212900
	Pig Iron	38045	46110	84155
	Iron & Steel Scrap	8445	9680	18125
	Silico Manganese	6195	7508	13703
TMT Rod/Bar	M.S. Billet	16550 (proposed dismantle)	274350	274350
Ind. Slag Grinder	Induction Furnace Slag	0	47000	47000

#### **Proposed Scenario of Expansion project:**

Sl. No.	Types of unit	Existing installed capacity	Proposed capacity (modernization /	Total capacity after modernization / expansion	Facilities
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			expansion)		
1.	Ind. Furnace & CCM (M.S. Billet)	123900 TPA (1x 15T + 4x7T)	150168 TPA (4x7T replaced with 4 x15T)	274068 TPA (5 x 15T)	Ind. Furnace & CCM (M.S. Billet)
2.	Re-Rolling Mill (M.S. Coil/TMT Bar)	16550 TPA (1x 50 TPD)	246926 TPA (Existing 1 x50 TPD replaced with 1x371 TPD + 1x375 TPD)	246926 TPA (1x371 TPD + 1x375 TPD)	Re-Rolling Mill (M.S. Coil/TMT Bar)
3.	Induction Slag Grinders(Iron Metal )	--	47000TPA	47000 TPA	Induction Slag Grinders(Iron Metal )
4.	MBF (Pig Iron)	39000 TPA	No Expansion	39000 TPA	MBF (Pig Iron)
5.	Iron Ore Beneficiation	94000 TPA	No Expansion	94000 TPA	Iron Ore Beneficiation

**Existing status of EC:**

No. of EC Granted/ Proposed	Manufacturing Facilities	Product	Capacity	EC grant details
M.S. Billet. (Old)	Induction Furnace	M.S. Billet	21240 TPA	--
1 <sup>st</sup> EC (Granted) EAC, New	Mini Blast Furnace	Pig iron	39000TPA (110TPD)	F. No. J- 11011/870/2008-IA II (I) on dated 28th Jul 2010

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2 <sup>nd</sup> EC (Granted SEIAA, Jharkhand)	Induction Furnace(SMS with CCM)	M S Billet	102660TPA (290TPD)	EC/SEIAA/2013- 14/297/2014/1525 on dated 25.08.2015
	Iron ore beneficiation plant	Iron ore beneficiation	94000TPA (266TPD)	
3 <sup>rd</sup> EC (Proposed)	Expansion of Induction Furnace	M.S. Billet	274068 TPA	
	Rolling Mill	M.S.Coil/TMT Bar	246926 TPA	
	Slag Crusher	Iron Metal	3760 0TPA	

#### Material Balance of rolling mill:

Input		Output					Total Quantity (T)	
		Product		Waste				
Raw material	Quantity (T)	Product	Quantity (T)	Material	Quantity (T)			
Steel Billets	2,61,942	TMT Bars	2,46,926	End cuts/ MS Roll	15,016	2,61,942		
<b>Total</b>	<b>2,61,942</b>		<b>246926</b>		<b>15,016</b>	<b>2,61,942</b>		
End Cutting & Mill Scrap(Reutilized in induction furnace)								

All the materials required for construction and operation of the plant will be transported through road. State Highway is at a distance of nearly 0.75 Km from the site.

#### Total Power Requirement:

Power requirement for the existing unit will be 17.0 MV is met from Damodar Valley Corporation and for the proposed expansion 6.0 MVA power will be required for existing & proposed plants that shall be met from Damodar Valley Corporation.

Units	Existing KV	Proposed requirement KV	Total Power Req.(KV)
M.S. Billet (Indn.+CCM) (Proposed Replacement = 4 x 7 MT by 4 x 15 MT Induction Furnaces)	11500	4000	15500
MBF Plant	1500	0	1500
M.S.Coil/TMT(Re-Rolling) (Proposed Dismantle)	1500 (Dismantled)	3000	3000
Iron Ore Beneficiation	500	0	500
Ind.SlagGrnder	0	500	500
Lighting & Auxiliary	2000	0	2000
<b>Total :</b>	<b>17000</b>	<b>6000</b>	<b>23000</b>

Total water requirement will be 60 KLD out of which 20 KLD will be make up water and will be sourced from Rain water harvesting pond and bore well. Waste water generated from the cooling tower blow down will be settled in the settling tank and recirculated in the process. So the plant will operate with zero effluent discharge technology. Domestic waste water will be treated through soak pit via septic tank.

DFO, Wildlife Hazaribagh vide letter no. 1575, dated 06.08.19 has certified that the Parashnath Wildlife Sanctuary is located at a distance 23105 m from project site and not within 10 km from National Park & Wildlife Sanctuary and proposed project is not situated in any ESZ.

The DFO, Giridih East Division vide letter no. 2411, dated 17.08.19 is misleading. It is not clear as to whether the project site is situated beyond 250 m of nearest notified forest or not.

The CO, Giridih vide memo no. 1880, dated 26.07.19 has mentioned the plot no. of the project is not recorded as "Jangle Jhari" in R.S Khatiyan & Register II.

Specific observations of the committee from the appraisal are as under:

- i. Online continuous ambient air monitoring system (CAAMS) has been installed.
- ii. Copy of the application submitted to CGWA for obtaining renewal of NOC for Ground Water Abstraction and Water audit report to be provided.
- iii. Copy of invoices raised against sale of Pig Slag to ACC Ltd., Sindri to be provided.
- iv. Copy of MOU for sale of Slag to be provided.
- v. Copy of signed agreement between Balmukund Sponge & Iron Pvt. Ltd. and Damodar Valley Corporation for Electric Power supply to be provided.
- vi. Off-site and On-site emergency plan approved by the Chief Inspector of Factories, Jharkhand to be provided.
- vii. Photograph of Occupational Health Centre for the existing unit to be provided.
- viii. In view of observations of Regional Office, MoEF&CC, Ranchi, company to submit undertaking that machinery identified during inspection is only a dry beneficiation iron ore unit and not sinter plant.

- ix. Copy of certified compliance report of EC submitted to RO, MoEF, Ranchi to be provided.
- x. Fugitive Dust Monitoring Report of Cast House before and after installation of dedusting system to be provided.
- xi. Lay out plan of plant showing boundary wall separating Sponge iron & other division to be provided.

**The Project Authorities have submitted above required documents.**

The proposal was appraised by State Level Expert Appraisal Committee (SEAC) and recommended for grant of Environmental Clearance in its meeting held on 23<sup>rd</sup>, 24<sup>th</sup>, 25<sup>th</sup>, 26<sup>th</sup> & 28<sup>th</sup> June, 2021.

State Level Environment Impact Assessment Authority (SEIAA), Jharkhand in its meeting held on 05<sup>th</sup>, 06<sup>th</sup> & 07<sup>th</sup> July, 2021 discussed the project proposal along with recommendations made by SEAC and decided to grant EC to the project.

Following the decision of SEIAA, as mentioned above, Environmental Clearance is hereby issued to the "**Modernization & Expansion of Steel Melting Shop and Rolling Mill of M/s Balmukund Sponge & Iron Pvt. Ltd. (Mega Div.) at Village : Manjhiladih, P.O. : Gadi Srirampur, Dist. : Giridih, Jharkhand**" alongwith the following conditions as recommended by SEAC with special conditions as follows:

- i. A Traffic density study to be conducted and report to be submitted with the first EC compliance report.
- ii. Maximise the quantum of Rain Water Harvesting by use and recharging the ground water.
- iii. Mock Drill report of three successive drills required under on-site emergency plan to be submitted along with the EC compliance report.

**I. Specific Conditions:**

- i. This Environmental Clearance is valid subject to the following condition below – That this project has–
  - a. Obtained all legal rights to operate at concerned place.
  - b. Complied with all existing concerned laws of the land and
  - c. Complied with the decisions of SEIAA on the issue of Environmental Clearance till date.
- ii. No mining/activity shall be undertaken in the forest land or deemed forest without obtaining requisite prior forestry clearance.
- iii. This Environmental Clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT, MoEF & CC and any other Court of Law, if any, as may be applicable to this project.
- iv. Environmental clearance is subject to obtaining prior clearance from forestry and Wildlife angle including clearance from standing committee of NBWL, as may be applicable to this project (in case any fauna occurs / is found in the Project area or if the area involves forest land or Wildlife habitat i.e. core zone of elephant/tiger reserve etc. and or located with in 10 km. of protected area).
- v. The project proponent may apply simultaneously for forest and NBWL clearance, in order to complete the formalities without undue delay, which till process on their

respective merits, no rights will vest in or accrue to them unless all clearance are obtained.

## **II. Statutory compliance:**

- 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.
- ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- 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. (incase of the presence of schedule-I species in the study area)
- 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.
- v. The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water / from the competent authority concerned in case of drawl of surface water required for the project.
- vi. The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.
- vii. It shall be mandatory for the project management to submit six (06) monthly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard copies and soft copies to the regulatory authority concerned Regional Office of MoEF & CC at Ranchi and Jharkhand State Pollution Control Board (J.S.P.C.B.), Ranchi/SEIAA/CPCB.
- viii. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- ix. The SEIAA, Jharkhand or any other competent Authority may alter modify the above conditions or stipulate any further condition in the interest of Environment Protection.

## **III. Air quality monitoring and preservation:**

- 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 7th December 2015(Thermal Power Plants) as amended from time to time) and

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- 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.
- ii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.
  - iii. The project proponent shall install system carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM25 in reference to PM emission, 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 Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
  - v. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources.
  - vi. The project proponent shall provide leakage detection and mechanised bag cleaning facilities for better maintenance of bags.
  - vii. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
  - viii. Recycle and reuse 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.
  - ix. The project proponent shall use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.
  - x. The project proponent shall provide covered sheds for raw materials like scrap and sponge iron, lump ore, coke, coal, etc.
  - xi. The project proponent shall provide primary and secondary fume extraction system at all melting furnaces.
  - xii. Design the ventilation system for adequate air changes as per ACGIH document for all tunnels, motor houses, Oil Cellars.

#### **IV. Water quality monitoring and preservation:**

- 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 7th 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 recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories. (case to case basis small plants: Manual; Large plants: Continuous)

- 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 recognised under Environment (Protection) Act, 1986 and NABL accredited laboratories.
- 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.
- iv. Adhere to 'Zero Liquid Discharge'.
- v. Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.
- 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.
- 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
- viii. The project proponent shall practice rainwater harvesting to maximum possible extent.
- ix. The project proponent shall make efforts to minimise water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.

#### V. Noise monitoring and prevention:

- i. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- ii. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB (A) during day time and 70 dB(A) during night time.

#### VI. Energy Conservation measures:

- i. The project proponent shall provide waste heat recovery system (pre-heating of combustion air) at the flue gases of reheating furnaces.
- ii. Practice hot charging of slabs and billets/blooms as far as possible.
- iii. Ensure installation of regenerative type burners on all reheating furnaces.

- iv. Provide solar power generation on rooftops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly.
- v. Provide the project proponent for LED lights in their offices and residential areas.

**VII. Waste management:**

- i. Used refractories shall be recycled as far as possible.
- ii. Oily scum and metallic sludge recovered from rolling mills ETP shall be mixed, dried, and briquetted and reused melting Furnaces
- 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.
- iv. The waste oil, grease and other hazardous waste shall be disposed of as per the
- v. Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016.
- vi. 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).

**VIII. Green Belt:**

- i. Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant.
- ii. The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration including plantation.

**IX. Public hearing and Human health issues:**

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- ii. The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
- 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, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

**X. Corporate Environment Responsibility:**

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1<sup>st</sup> May 2018, as applicable, regarding Corporate Environment Responsibility.

- ii. The company shall have a well laid down environmental policy duly approve 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 and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- 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 to the head of the organization.
- 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. Year wise progress of implementation of action plan shall be reported to the Ministry / Regional Office along with the Six Monthly Compliance Report.
- v. Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.
- vi. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the plants shall be implemented.
- vii. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

#### **XI. Miscellaneous:**

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
- 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.
- 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.
- 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.
- 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.





- 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.
- vii. The project proponent 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, commencing the land development work and start of production operation by the project.
- viii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- ix. 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.
- x. 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).
- xi. 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.
- xii. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xiii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xiv. 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.
- xv. 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 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.
- xvi. Any appeal against this Environmental Clearance 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.

## XII. Other Conditions :

- i. The Authority reserves the right to add any new condition or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of Authority or for that matter for any other Administrative reason.

- ii. In view of MoEF & CC O.M. No.- 22-27/2015-IA-III, dated- 12.04.2016 The Environmental Clearance accorded shall be valid for a period of Seven (07) years. The PP shall not increase production rate and make modifications in process during the validity of Environmental Clearance.
- iii. In case of any deviation or alteration in the project proposed from those submitted to SEIAA, Jharkhand for clearance, a fresh reference should be made to SEIAA to assess the adequacy of the conditions imposed and to incorporate any new conditions if required.

*[Signature]*  
Member Secretary  
State Level Environment Impact  
Assessment Authority, Jharkhand.

*[Signature]*

*[Signature]*



## State Level Environment Impact Assessment Authority, Jharkhand.

C - 170, Road No. 4, Ashok Nagar, Ranchi, Jharkhand. 834 002.

Tel #: 0651-2243488; Fax #: 0651-2243487.

E-mail: [info@jseiaa.com](mailto:info@jseiaa.com); website: [www.jseiaa.org](http://www.jseiaa.org)

सत्यमेव जयते

Letter No.- EC/ SEIAA / 2013-14/297/2014/ 1525

Ranchi, Date: 25.08.15

To: Sri Nawal Kumar Kanodia,  
Managing Director,  
603- Shantikunj Apartment, Chhajju Bagh, Patna,  
District- Patna, Bihar.800001

**Sub.:** Environmental Clearance for the project “**Screening & Scoping of Expansion Project of M/S Balmukund Sponge & Iron Ltd. at Village-Manjhiladih, Tehsil- Giridih, Dist- Giridih, Jharkhand**”.

Sir,

It is in reference to the project “**Screening & Scoping of Expansion Project of M/S Balmukund Sponge & Iron Ltd. at Village-Manjhiladih, Tehsil- Giridih, Dist- Giridih, Jharkhand**” submitted by you for seeking prior Environmental Clearances (EC).

The proposal was appraised by State Level Expert Appraisal Committee (SEAC) and recommended for grant of Environmental Clearance in its meeting held on 03<sup>rd</sup> to 06<sup>th</sup> August, 2015.

M/S Balmukund Sponge Iron Limited at present operates Mini Blast Furnace Unit 110 TPD, Induction Furnace of 60 TPD capacity each, & Rolling Mill of capacity 50 TPD and Ferro Alloy Plant 35 TPD at Vill.-Manjhiladih, Tehsil- Giridih, Dist.-Giridih, Jharkhand and has received Consent to Operate from Jharkhand State Pollution Control Board vide Letter No. PC/Air/HBG/B-60/07/D-436(C), dated 18/02/2014. They now propose to install Iron Ore Beneficiation plant 94000TPA by 2x7 MT, 1x15 MT Induction Furnace with 2 strand of Continuous Casting Machine. No extra land is required for the proposed expansion. (Existing: 26.354 Acres and Additional area: Nil). The latitude and longitude of the project site is 24° 07' 14.03" N and 86°21' 16.31" E respectively. No Forest land is involved. No national park/wild life sanctuary/ecologically sensitive area located within 10 km radius of the project site. The cost of the project is Rs. 19 Crores.

The status of existing and proposed expansion units are as given below:-

### Existing Units :-

S. No.	Plant details	Capacity (TPD)
1.	Mini Blast Furnace	110 TPD
2.	Induction Furnace Unit	60TPD
3.	Rolling Mil	50 TPD
4.	Ferro Alloys Plant	35 TPD

### Proposed Units

S. No.	Plant details	Capacity

1.	Steel Melting shop (Induction Furnace with 2 strand CCM)	290 TPD (2 X 7 MT, 1 X 15 MT)
2.	Iron Ore Beneficiation	94000 TPS (throughput)

State Level Environment Impact Assessment Authority (SEIAA), Jharkhand in its meeting held on 22.08.2015 discussed the project proposal along with recommendations made by SEAC and decided to grant EC to the project.

Following the decision of SEIAA, as mentioned above, Environmental Clearance is hereby issued to the project "**Screening & Scoping of Expansion Project of M/S Balmukund Sponge & Iron Ltd. at Village-Manjhiladih, Tehsil- Giridih, Dist.-Giridih, Jharkhand**" alongwith the following conditions-

#### A. Specific Conditions

1. This Environmental Clearance is valid subject to the following condition below –  
That this project has-
  - a. Obtained all legal rights to operate at concerned place.
  - b. Complied with all existing concerned laws of the land and
  - c. Complied with the decisions of SEIAA on the issue of Environmental Clearance till date.
2. A matter in the context of Environmental Clearance to Chururia Sand Ghat in Barakar River of M/S Starnet Marketing Pvt Ltd at Village- Chururia, Ghurnbeda&Daldali, P.S- Tundi, District- Dhanbad, Jharkhand (14.30 Ha) has come to the notice of SEIAA in which mining lease has been granted by the Mining department on such a piece of Land in which two plots have been found within the forest area and this has also come to the notice of SEAC during examination of the records submitted by the concerned proponent .

SEIAA in it's 35<sup>th</sup> meeting dated 13.08.2015 decided that SEAC will considered after taking undertaking from the proponent about the distance from forest boundary to avoid the delay in obtaining the certificate of D.F.O.

But as matter mentioned in para 1 it has come to the knowledge of SEIAA that if the undertaking given by the proponent is found to be wrong and if the mining Lease granted by the Department of Mines and Geology in such an area where the land or any part of it under lease is found at any level or by any authority to be inside notified forest or demarcated forest or Jungle Jhari area (as recorded in revenue records). SEIAA decides that the E.C. issued will be treated as invalid / cancelled with immediate effect.

SEIAA decides that this condition will apply in all the similar cases in which E.C. has already been issued earlier

3. Efforts shall be made to reduce RSPM (PM 10) levels in the ambient air and a time bound action plan shall be submitted. This shall cover the existing and proposed units.
4. Secondary fugitive emissions shall be controlled within the prescribed limits, regularly monitored and records maintained. Guidelines / Code of Practice issued by the CPCB in this regard shall be followed.
5. Separate swiveling hoods will be installed for fume extraction and dust laden gases will be passed through spark arrestor, bag filter for cleanup of particulate matter to concentration below 100 mg / MM before release to the atmosphere through the stack.
6. Iron Ore Beneficiation Plant : Water sprinkling, dry fog system will be provided at feeding and transfer points.



7. Electrostatic precipitator (ESP), dust catcher, bag filters etc. shall be provided to keep the emission levels within 50 mg / Nm<sup>3</sup> and by installing energy efficient technology.
8. The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826 (E) dated 16<sup>th</sup> November, 2009 should be followed.
9. Secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry vide G.S.R. 414 (E) dated 30<sup>th</sup> May, 2008 and regularly Monitored. Guidelines / Code of Practice issued by the CPCB shall be followed.
10. Hot gases from Rotary kiln shall be passed through Dust Settling Chamber (DSC) to remove coarse solid and After Burning Chamber (ABC) to burn CO completely. The gas then shall be cleaned in ESP before leaving out into the atmosphere through ID fan and stack. The water consumption shall not exceed as per prescribed standards for the steel plants.
11. Total requirement of the water shall not exceed 165 m<sup>3</sup> /day during operation i.e. during monsoon months. All the treated wastewater shall be recycled for dust suppression and green belt development. Domestic wastewater shall be treated in septic tank followed by soak pit. Zero effluent discharge shall be strictly followed and no wastewater shall be discharged outside the premises.
12. Efforts shall be made to make use of rain water harvested. If needed, capacity of the reservoir shall be enhanced to meet the maximum water requirement. Only balance water requirement shall be met from other sources. Rain water harvesting as proposed in the Report will be implanted in two nearby villages. The scheme has to be got approved from Ground Water Directorate, Government of Jharkhand / Central Ground Water Authority / Board.
13. Asphalting/concreting of roads and water spray all around the stockyard and loading / unloading shall be carried out to control fugitive emissions. Regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of SPM and RSPM such as haul road, loading and unloading points, transfer points and other vulnerable areas. It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.
14. 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. Efforts shall also be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land. All the raw materials including fly ash and washery rejects shall be transported in the closed containers only and shall not be overloaded. Vehicular emissions shall be regularly monitored and records kept.
15. Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land. All the raw materials should be transported in the covered vehicles only and vehicles should not be overloaded. Vehicular emissions should be regularly monitored.
16. As proposed, green belt shall be developed in 33% of plant area within and around the project site to mitigate the impact of fugitive emissions as per the CPCB guidelines in consultation with local DFO.
17. The recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the various Plants Units shall be implemented.

18. Risk and Disaster Management Plan along with the mitigation measures shall be prepared and a copy submitted to the JSPCB within 3 months of issue of environment clearance letter.
19. At least 5 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment based on locals need and item-wise details along with time bound action plan should be prepared and submitted to the JSPCB. Implementation of such program should be ensured accordingly in a time bound manner.
20. 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**

1. The project authorities must strictly adhere to the stipulations made by the Jharkhand State Pollution Control Board and the State / Central Government Departments.
2. No change in process technology should be made without prior approval of the Statutory authorities, Jharkhand State Pollution Control Board, Ranchi during the EC period.
3. The Project proponent shall make all internal roads pucca and shall maintain a good housekeeping by regular cleaning and wetting of the haul roads and the premises.
4. The gaseous emissions from various process units shall conform to the load / mass based standards notified by this Ministry on 19<sup>th</sup> 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.
5. 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<sub>2</sub> and NO<sub>x</sub> are anticipated in consultation with JSPCB. Data on ambient air quality and stack emission shall be regularly submitted to SEIAA / JSPCB once in six months.
6. Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19<sup>th</sup> May, 1993 and 31<sup>st</sup> December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.
7. 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).
8. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
9. The Project proponent shall maintain register for production and dispatch and submit return to Jharkhand State Pollution Control Board, Ranchi.
10. The Project proponent shall not cut trees / carry out tree felling in plant area without the permission of competent authority.
11. Measures should be taken for control of noise levels below prescribed norms in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs / muffs.

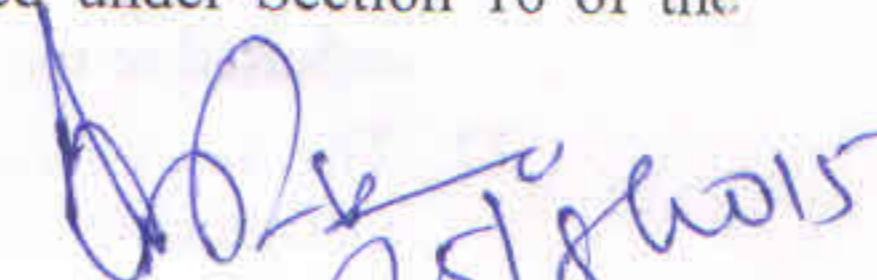


12. Industrial waste water should be properly collected, treated so as to conform to the standards Oil and grease trap should be installed before discharge of workshop effluents.
13. Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.
14. Dispensary facilities for First Aid shall be provided at site.
15. A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.
16. The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Jharkhand State Pollution Control Board, Ranchi .
17. The Jharkhand State Pollution Control Board, Ranchi directly or through its Regional Office, shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) by furnishing the requisite data / information / monitoring reports.
18. The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the Jharkhand State Pollution Control Board, Ranchi and to its concerned Regional Office.
19. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to Jharkhand State Pollution Control Board and its concerned Regional Office The criteria pollutant levels namely ; SPM ,RSPM,SO<sub>2</sub> ,NOx (ambient levels) or critical sectoral parameters , indicated for the project shall be monitored and displayed at a convenient location near the project shall be monitored and displayed at a convenient location near the main gate of the company in the company in the public domain.
20. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad / 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 project proponent.
21. The environmental statement for each financial year ending 31<sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the Jharkhand 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 the status of compliance of EC conditions and shall also to the concerned Regional Office of JSPCB by e-mail.
22. All statutory clearances shall be obtained before start of plant operations.

#### C. Other points

1. The Authority reserves the right to add any new condition or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of Authority or for that matter for any other Administrative reason.
2. The Environmental Clearance accorded shall be valid for a period of five (5) years. The PP shall not increase production rate and make modifications in process during the validity of Environmental Clearance.

3. In case of any deviation or alteration in the project proposed from those submitted to SEIAA, Jharkhand for clearance, a fresh reference should be made to SEIAA to assess the adequacy of the conditions imposed and to incorporate any new conditions if required.
4. The above stipulations would be enforced among others under the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Trans boundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/ High Court of Jharkhand and any other Court of Law relating to the subject matter.
5. Any Appeal against this Environmental Clearance 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.



Member Secretary  
State Level Environment Impact  
Assessment Authority, Jharkhand.