

F. No. J-11011/229/2008-IA.II (I)
Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

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Dated: 18th October, 2017

To

**M/s Gallantt Ispat Limited,
Plot No: Al -5, Sector – 23,
Gida Industrial Area, Tehsil: Sahjanwa, District;
Gorakhpur, Uttar Pradesh – 273 209
e-mail: gil@gallantt.com**

Subject: Expansion of Integrated Steel Plant (MS Billet from 216000 TPA to 330000 TPA; Captive power from 24 MW to 53 MW; Sponge Iron from 198000 TPA to 297000 TPA) of M/s Gallantt Ispat Limited, Plot No: Al -5, Sector – 23, Gida Industrial Area, Tehsil: Sahjanwa, District; Gorakhpur, Uttar Pradesh – Environmental Clearance under EIA Notification, 2006 Regarding.

Sir,

This has reference to your online application vide proposal no. **IA/UP/IND/55089/2016** on **10th July 2017** along with the copies of EIA/EMP seeking environmental clearance under the provisions of the EIA Notification, 2006 for the above mentioned proposed project. The proposed project activity is listed at Sl. No. 3(a) Metallurgical industries (ferrous & non-ferrous), under category 'A' of the Schedule of EIA Notification, 2006 and appraised at the Central Level.

2.0 The proposed expansion of Integrated Steel Plant of M/s Gallantt Ispat Limited located at Plot No: AL – 05, Sector – 23, GIDA Industrial Area, Tehsil: Sahjanwa, District: Gorakhpur in Uttar Pradesh was initially received in the Ministry on 1st June 2016 for obtaining Terms of Reference (ToR) as per EIA Notification, 2006. The project was appraised by the Expert Appraisal Committee [EAC (Industry-I)] in its 8th meeting held during 27th– 28 June 2016 and recommended for prescribing ToRs to the above-mentioned project for undertaking detailed EIA and EMP study for obtaining environmental clearance. Accordingly, the Ministry of Environment, Forest and Climate Change had prescribed ToRs to the project on 11th August 2016 vide Lr. No. J-11011/229/2008 -IA.II(I).

3.0 The present proposal is for expansion of existing Integrated Steel Plant for enhancement of production of Sponge Iron from 198000 TPA to 297000 TPA; Billets from 216000 TPA to 330000 TPA; and CPP from 24 MW to 53 MW. The existing project was accorded environmental clearance vide letter number J-11011/229/2008-IA.II(I) dated 2nd February 2009. The Status of compliance of earlier environmental Clearance was obtained from Regional Office, Lucknow, vide Lr. No. IV/ENV/UP/IND-118/303/2009/34 dated 23.05.2017. There are no non-compliances reported by Regional officer.

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Environmental Clearance for Expansion of Integrated Steel Plant (MS Billet from 216000 TPA to 330000 TPA; Captive power from 24 MW to 53 MW; Sponge Iron from 198000 TPA to 297000 TPA) of M/s Gallantt Ispat Limited, Plot No: Al -5, Sector – 23, Gida Industrial Area, Tehsil: Sahjanwa, District; Gorakhpur, Uttar Pradesh

The proposed expansion capacity for different products for existing industry site as below:

Sl. No.	Particulars	Sanctioned capacity as per EC	Installed Capacity	Proposed expansion	Total Capacity (after expansion)
1	Sponge Iron Plant	198000 TPA	99000 TPA	99000 TPA	297000 TPA (2 X 450 TPD X 330 days - By modification of existing kiln of 300 T/day to 450 T/day and addition of one more kiln with the capacity of 450 T/day in place 300 T/day sanctioned)
2	M. S. Billets via induction Furnace & Caster Machine Route	216000 TPA	216000 TPA	114000 TPA	330000 TPA (2 x 20 T + 2 x 30 T X 10 Heat x 330 days - By replacing existing 4 Induction Furnace of 15 T/Heat to 2 Induction furnace of 30 T/Heat and 02 IF of 20 T/Heat along with 01 No IF of 15 T/Heat as standby)
3	Captive Power Plant				
	WHRB	8.0 MW	8.0 MW	10.0 MW	Total: 53.0 MW (24 MW Existing + 29 MW Proposed - to generated 53.0 MW electricity, one number new 110 TPH FBC boiler and 35 TPH WHRB boiler along with existing 50 (01 no) FBC boiler and 35 TPH (01No.) boiler will be utilised.
	AFBC	16.0 MW	10.0 MW	19.0 MW	

4.0 The total land required for the existing plant and proposed project is 40.50 Hectare. This entire land is already acquired and available as there is existing plant operational on the same land. This land is situated in GIDA Industrial Area. No River passes through the project area. It has been reported that no water body/water body exist around the project and modification/diversion in the existing natural drainage pattern at any stage has not been proposed.

5.0 The topography of the area is flat and reported to lies between 26° 45'26.96" to 26° 45'44.46" N Latitude and 83°11'49.74" to 83°12'15.41" E Longitude in Survey of India Topo Sheet No. 63N/1, 63N/2, 63N/5 & 63N/6 at an elevation of 77 - 78 m AMSL. The ground water table reported to ranges between 3.0 – 4.0 m bgl during the post-monsoon season and 4 – 5 m bgl during the pre-monsoon season. Based on the hydro-geological study, it has been reported that the radius of influence of pumped out water will be 100.0 m.

6. No National Park/WL etc are in the core and buffer zone of the project. The authenticated list of flora and fauna provided EIA report.

7. Detailed process provided in EIA report and list of raw material given below:

Material process provided in EIA Report and list of raw material given below:						
S No	Raw Material	Consumption (TPA)			Source of Supply	Method of Transport
		Existing	Proposed expansion	Total after expansion		
Sponge Iron Plant						
1	Iron Ore	99000	138600	237600	Mines	Rail
2	Pellets	99000	138600	237600	Manufacturer	Rail
3	Coal	99000	138600	267300	Mines	Rail
4	Dolomite	4950	9900	14850	Local Market	Road
Steel Melt Shop Division (Induction Furnace with Continues Caster)						
1	Sponge Iron	198000	99000	297000	In House	Conveyers
2	MS Scraps	72845	36422	109267	Local Market	Road
3	Ferro Alloy	3240	1710	4950	From Local Manufacturer	Road
Captive Power Plant						
1	Coal	38016	86724	124740	Mines	Rail
2	Rice Husk	12672	70488	83160	Local Market	Road
3	Dolochar	26038	15542	41580	In house	Conveyers

8.0 The targeted production capacity of the Sponge Iron from 198000 TPA to 297000.0 TPA; Billets from 216000.0 TPA to 330000.0 TPA; and CPP from 24 MW to 53 MW. Iron ore for the plant would be procured from various mines from open market / online bidding and transportation will be done through Rail / Road.

9.0 The Fresh water requirement of the project is estimated at 4254.0 m³/day after expansion. Existing fresh water requirement is 1700.0 m³/day. Fresh water will be met from the ground water. The permission for drawl of groundwater is obtained from CGWA for existing capacity vide Lr. No. 24-4-(161)/CGWA/NR/2008-518 dated 5th April 2016. For expansion CGWA application has been already filed and it is under process.

10.0 The power requirement of the project is estimated as 40.0 MW after expansion. Currently, there is a power requirement of 25.0 MW for existing plant. 18 MW captive power is already installed at site and the company is also having 10.0 MW grid connection from the Poorvanchal Vidyut Nigam Limited.

11.0 Baseline environmental studies were conducted during post-monsoon & partial winter season i.e. from 1st October 2016 to 31st December 2016. Ambient Air Quality monitoring has been carried out at 8 locations during 1st October 2016 to 31st December 2016 and the data submitted indicated: PM₁₀ (69.85 µg/m³ to 85.95 µg/m³), PM_{2.5} (32.43 to 55.95 µg/m³), SO₂ (12.54 to 16.06 µg/m³) and NO_x (14.93 to 22.53 µg/m³). The results of the modelling study indicate that the maximum increase of GLC for the proposed project is 2.77 µg/m³ with respect to the PM₁₀; 7.80 µg/m³ with respect to the SO₂; and 12.48 µg/m³ with respect to the NO_x.

12.0 Ground water quality has been monitored in 8 locations in the study area and analysed. p^H: 7.4 to 7.77; Total Hardness: 287.17 to 432.55 mg/l; Chlorides: 39.08 to 178.92 mg/l; and

Fluoride: 0.86 to 1.08 mg/l. Heavy metals are within the limits. Surface water samples were analysed from 8 locations. p^H : 7.4 to 8.09; DO: 2.2 to 4.0 mg/l; BOD: 3.6 to 10.94 mg/l; and COD from 11.56 to 43.6 mg/l.

13.0 Noise levels are in the range of 50.12 to 60.18 dB(A) for daytime and 44.83 to 50.29 dB(A) for night time.

14.0 As the present proposal is for expansion of existing industry and the Industry is situated in GIDA Industrial Area, no R&R is involved.

15.0 It has been reported that a total of 239.0 T/day of ash will be generated from the plant including expansion. Out of this, 20% will be bed ash and 80% will be fly ash. Fly ash will be supplied to cement manufacturers / brick manufacturers. Bed ash will be supplied for road construction. Fly ash will be stored in silos and will be supplied by bulkers. About 111 tons of Slag will be generated from Induction Furnace and 100 % will be used in road construction / civil construction.

16.0 It has been envisaged that an area of 13.36 ha has been developed as green belt around the project site to attenuate the noise levels and trap the dust generated due to the project development activities.

17.0 It has been reported that the Consent to Establish and Consent to Operate from the Uttar Pradesh State Pollution Control Board was obtained vide UPPCB Letter No. F-47391/C-6/NOC/36/GKP dated 08th April, 2009 and F-72759/C-6/Water consent/ 121/2016 dated 21st January 2016 & F-72758/C-6/ Air Pollution/ 121/2016 respectively and consent is valid up to December 2017.

18.0. The Public hearing for the proposed expansion was held on 25.04.2017 at existing industry premises under the chairmanship of Additional District Magistrate, Gorakhpur for expansion of existing integrated steel plant at plot no: AL - 05, Sector : 23, GIDA Industrial Area, Sahjanwa Gorakhpur. The issues raised during public hearing are related to air pollution; dust; noise pollution and fly ash management. An amount of 510.0 Lakhs (2.53 % of project cost) has been earmarked for Enterprise Social Commitment (ESC) based on public hearing issues. The action plan for all developmental activities under ESC are as follows:

Sl	Activities	1 st Year	2 nd Year	3 rd Year	4 th Year	5 th Year	Total
1	Pipeline distribution Drinking water and storage, supply of water purifier	60.0	40.0	16.0	10.0	10.0	136.0
2	Providing fabricated toilets and drainage system, rain water storage and use	25.0	20.0	20.0	20.0	15.0	100.0
3	Opening of health check-up centre outside the factory	20.0	16.0	15.0	15.0	15.0	81.0
4	Adoption and development of village infrastructure	39.0	39.0	36.0	36.0	35.0	185.0
	Total	144.0	115.0	87.0	81.0	75.0	502.0

19.0 The capital cost of the project is Rs. 201.93 Crores and the capital cost for environmental protection measures is proposed as Rs. 866.5 Lakhs. The annual recurring cost towards the environmental protection measures is proposed as Rs 85.0 Lakhs. The detailed CSR plan has been provided in the EMP. The employment generation from the proposed expansion is 140 persons.

20.0 Greenbelt has been developed in 13.36 Ha which is about 33 % of the total project area. A 3-tier greenbelt, consisting of at least 30 m wide around plant boundary will be developed as greenbelt and green cover as per CPCB/MoEFCC guidelines. Local and native species will be planted with a density of 2500 trees per hectare. Total of 10000 saplings will be planted and nurtured per year for next five years.

21.0 The proponent has mentioned that there are no court cases or violation under EIA Notification, 2006 or directions under Environment (Protection) Act to the project or related activity.

22.0 The proposal was considered in the 21st meeting of Expert Appraisal Committee [EAC(Industry-I)] held during 10th – 11th August 2017. The project proponent has made detailed presentation along with EIA Consultant M/s Grass Root Research and Creation India (P) Ltd, Noida.

23.0 After detailed deliberations, the EAC (Industry-I) recommended the proposal for Environmental Clearance and stipulated Specific Conditions along with other environmental conditions while considering for accord of environmental clearance.

24.0 The Ministry of Environment, Forest and Climate Change has considered the application based on the recommendations of the Expert Appraisal Committee (Industry-I) and hereby decided to grant environmental clearance for the proposed expansion of Integrated Steel Plant (MS Billet from 216000 TPA to 330000 TPA; Captive power from 24 MW to 53 MW; Sponge Iron from 198000 TPA to 297000 TPA) of M/s Gallantt Ispat Limited, Plot No: A1 -5, Sector – 23, Gida Industrial Area, Tehsil: Sahjanwa, District; Gorakhpur, Uttar Pradesh under the provision of EIA Notification dated 14th September, 2006, as amended, subject to strict compliance of the following Specific and General conditions:

A. SPECIFIC CONDITION:

- i. Expansion operation shall be carried only after obtaining permission from the CGWA for the additional water required for expansion proposal.
- ii. The company shall ensure 100% utilization of the fly generated from the plant. No dumping of fly ash is allowed in the premises.
- iii. An amount of Rs. 510 Lakhs @ 2.53% of the project cost allocated for Enterprise Social Commitment (ESC) based on the issues raised by Public Hearing shall be utilized as capital expenditure in project mode. The project shall be completed in concurrence with the implementation of the expansion and estimated based on Scheduled Rates.
- iv. The project proponent shall adhere to “Zero Liquid Discharge (ZLD) for the industrial effluents”.

- v. In order to reduce air pollution, additional air pollution control systems viz. Filter bag house designed for 150% of the air flow rate. The filter bag shall be PTFE dipped PPS type.
- vi. Mechanical Vacuum Cleaners shall be deployed for cleaning of internal roads for prevention of fugitive dust. Dust extraction and suppression system shall be provided at all the transfer points, raw material handling plant and sponge iron plant. Water sprinkling system shall be provided to control secondary fugitive dust emissions generated during screening, loading, unloading, handling and storage of raw materials etc.
- vii. Green belt shall be developed in 33.15 acres equal to 33 % of plant area with native tree species in accordance with CPCB guidelines. The greenbelt shall *inter alia* cover the entire periphery of the plant.
- viii. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) shall be complied with
- ix. The project proponent shall provide Air Pollution Control Devices (APCD) at stacks of CPP and DRI plant/WHRB and installed with continuous stack monitoring (24x7) devices to monitor air emissions.
- x. The PP shall prepare GHG emission inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration including plantation.
- xi. The PP shall carry out heat stress analysis in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
- xii. All DRI Kilns shall have Waste Heat Recovery Boiler and shall meet the emission standards as notified under E(P) Act.
- xiii. Rain water harvesting system shall be adopted, and practice for ground water recharge followed, based on hydro geological conditions at the site.
- xiv. Emergency Preparedness Plan based on Hazard Identification and Risk Assessment (HIRA) and Disaster Management Plan (DMP) shall be implemented.
- xv. All the char generated shall be further utilised for power generation. Blast furnace (BF) slag granulation system shall be provided for further utilization. BF Flue dust and gas cleaning plant sludge shall be re-cycled / re-used. The dust collected from the APCD in the raw material handling section shall be reused / recycled
- xvi. 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.

B. GENERAL CONDITIONS:

- i. The project authorities must strictly adhere to the stipulations made by the concerned State Pollution Control Board and the State Government.
- ii. 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).
- iii. At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM₁₀, PM_{2.5}, SO₂ and NO_x are anticipated in consultation with the SPCB. The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November 2009 shall be followed and data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Lucknow and the SPCB/CPCB once in six months.
- iv. The Project Proponent shall conform to:
 - a. The emission standards specified vide S.O. 3305 (E) dated 7th December 2015 for the Thermal Power Plant.
 - b. Gaseous emission levels including secondary fugitive emissions from all the sources shall be controlled as per vide G.S.R. 414(E) dated 30th May 2008.
 - c. The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November 2009.
 - d. Proper handling, storage, utilization and disposal of all the hazardous and other waste shall be carried as per the provisions of Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016.
 - e. Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 1999 and subsequent amendment in 2003 and 2009. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding.
 - f. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dB(A) during day time and 70 dB(A) during night time.
- v. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- vi. An amount of Rs. 866.5 Lakhs towards Capital cost and Rs 85.0 Lakhs per annum for recurring cost for environment pollution control measures shall be earmarked. The funds so provided shall not be diverted for any other purpose.
- vii. The project proponent shall:
 - a. send a copy of clearance letter to the heads of Local Bodies, Panchayat, Municipal bodies and relevant offices of the Government;

- b. put on the clearance letter on the web site of the company for access to the public;
- c. inform the public through advertisement 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 that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment, Forests and Climate Change (MoEF&CC) at <http://envfor.nic.in>;
- d. upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same periodically;
- e. monitor the criteria pollutants level namely; PM₁₀, SO₂, NO_x (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;
- f. 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&CC, the respective Zonal Office of CPCB and the SPCB;
- g. 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; and
- h. 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.

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

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


27.0 The PP shall abide by all the commitments and recommendations made in the EIA/EMP report and also that during their presentation to the EAC. The commitment made by the project proponent to the issue raised during Public Hearing shall be implemented by the proponent.

28.0 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 and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules.

29.0 This EC supersedes the earlier EC granted vide letter Lr. No. J-11011/229/2008-IA.II(I) dated 2nd February 2009.


30.0 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.

This issues with the approval of Competent Authority.


(Sharath Kumar Pallerla)
Scientist 'F'/Director

Copy to:-

- 1). **The Secretary**, Department of Environment, Government of Uttar Pradesh, Sachivalaya, Bapu Bhawan, Adjacent to Vidhan Sabha, Lucknow – 226001.
- 2). **The Chief Wildlife Warden**, Government of Uttar Pradesh, 17, Rana Pratap Marg, Lucknow, U.P
- 3). **The Additional Principal Chief Conservator of Forests**, Ministry of Environment, Forest and Climate Change, Regional Office (CZ), Kendriya Bhawan, 5th Floor, Sector "H", Aliganj, Lucknow – 226020,
- 4). **The Chairman**, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
- 5). **The Chairman**, State Pollution Control Board, PICUP Bhawan, 3rd Floor, B-Block, Vibhuti Khand, Gomti Nagar Lucknow – 226 010.
- 6). The Member Secretary, Central Ground Water Authority, A2, W- 3 Curzon Road Barracks, K.G. Marg, New Delhi-110001.
- 7). **The District Collector, Gorakhpur** District, State of Uttar Pradesh.
- 8). **Guard File / Record file / Monitoring file.**
- 9). **MOEF&CC Website.**


(Sharath Kumar Pallerla)
Scientist 'F'/Director