

F. No. J-11011/355/2004-IA II (I)
Government of India
Ministry of Environment, Forest and Climate Change
(I.A. Division)

Indira Paryavaran Bhawan
Jor Bagh Road, Aliganj,
New Delhi - 110003
E-mail: sharath.kr@gov.in

Dated: 2nd May, 2017

To

M/s Sunflag Iron & Steel Co. Ltd.
Village Eklari, Taluka Mohdi,
District Bhandara, Maharashtra

Subject: Expansion of integrated steel plant from 0.5 MTPA to 1.0 MTPA of M/s Sunflag Iron & Steel Co. Ltd. located at Village Eklari, Taluka Mohdi, District Bhandara, Maharashtra – Environmental Clearance regarding.

Sir,

This has reference to your online application No. IA/MH/IND/58562/2014 dated 26th August, 2016 along with copies of EIA/EMP report seeking environmental clearance under the provisions of the EIA Notification, 2006 for the project mentioned above. The ToR's to the project were prescribed by MoEFCC vide letter No. F. No.J-11011/355/2004-IA-II(I) dated 29th October, 2014 for the preparation of EIA and EMP report. The proposed project activity is listed at S.No. 3(a), under category 'A' of the Schedule of EIA Notification, 2006 and appraised at the Central level.

2.0 The project of M/s Sunflag Iron and Steel Company Limited (SISCL), located in Village Eklari, Warthi and Sirsi, Tahsil Mohadi, District Bhandara, Maharashtra is for enhancement in the production capacity of steel from 0.5 million TPA to 1.0 million TPA. The total land required for the expansion project is 26.34 ha, which is already available within the 200 ha of existing plant. The entire 200 ha is already under possession of company. No forest land is involved. No river passes through the project area. It has been reported that a canal is passing through the property. In addition a first order naala is also passing through the property; however, diversion in the existing natural drainage pattern at any stage has not been proposed.

3.0 The topography of the area is flat and reported to lie between 21°13'30" to 21°14'16" N Latitude and 79°37'11" to 79°38'32" E Longitude in Survey of India topo sheet No. 55 O/11, at an elevation of 273 m AMSL. The ground water table at plant site is reported to range between 1.5 m below the ground level during the post-monsoon season and 3 m below the ground level during the pre-monsoon season. There will be withdrawal of ground water for the project.

4.0 The Koka Wildlife Sanctuary is located at a distance of 8.7 km from the site and the project site lies outside the Eco sensitive Zone of Koka wild life sanctuary. The proponent has mentioned that they have submitted an application to NBWL; however, as per MoEFCC's Notification S.O.612(E) dated 25.02.2016, project area does not fall in Eco Sensitive Zone (ESZ) of the Koka Wildlife Sanctuary. Hence, NBWL clearance is not required.

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Environment Clearance for Expansion of integrated steel plant from 0.5 MTPA to 1.0 MTPA of M/s Sunflag Iron & Steel Co. Ltd. located at Village Eklari, Taluka Mohdi, District Bhandara, Maharashtra

5.0 The various processes in the steel plant will be as per following table:

S. No	Products	Existing Capacity	Proposed Capacity	Total Production after Expansion
1	Direct Reduced Iron	0.28 Million TPA (1x350 TPD and 1x500 TPD Kilns)	0.72 Million TPA (3x350 TPD & 3x500 TPD Kilns)	1.0 Million TPA
2	Pig Iron / Hot Metal	0.25 Million TPA (0.3 Million TPA MBF)	0.35 Million TPA (0.30 Million TPA MBF + 0.05 Million TPA Existing Capacity Utilization)	0.60 Million TPA
3	Ingots / Billets	0.525 Million TPA (1x50/60 TPH EAF & 75 TPH AOD)	0.5 Million TPA (2x25 TPH IF & 1x50 TPH EAF)	1.025 Million TPA
4	Rolled Steel Products	0.5 Million TPA (1x70 TPH, 1x60 TPH, 1x14 TPH)	0.5 Million TPA (1x70 TPH, 1x60 TPH, 1x14 TPH)	1.0 Million TPA
5	Sinter	0.25 Million TPA (0.48 Million TPA Sinter Plant)	0.60 Million TPA (0.40 Million TPA Sinter Plant + 0.20 Million TPA existing capacity utilization)	0.85 Million TPA
6	Electricity	30 MW CPP	60 MW CPP	90 MW
7	Coke	--	0.25 Million TPA (Coke Oven Plant)	0.25 Million TPA
8	Oxygen Plant	15000 TPA	--	15000 TPA
9	Oxygen / Nitrogen / Argon Plant	45000 TPA	--	45000 TPA
10	Washery	750 TPD	--	750 TPD

6.0 The targeted production capacity of steel plant is 1.0 million TPA. The ore for the plant would be procured from NMDC Kirandul (Bailadila, C.G.), Hospet (Dist. Bellary, Karnataka), Barbil (Odisha) and Katni, Jabalpur (Madhya Pradesh) and any other source, as and where available.

7.0 The fresh water requirement of the existing and expansion project is estimated as 15,098 m³/day, which will be obtained from Wainganga river and rain water harvesting. About 1496 m³/day water requirement will be met from the recycled water. Permission for withdrawal of water has reported been obtained from the Government of Maharashtra.

8.0 The power requirement of the expansion project is estimated as 64.37 MW, which will be partly met from CPP (existing 30 MW + additional 60 MW) and balance obtained from the MSEB or open excess.

9.0 It has been reported that an additional 2.1 million tonnes per annum of waste will be generated due to the expansion of the project, out of which nearly 90% will be re-used in various sub-units, such as

FBC, sinter plant, road making, sale to cement plants, brick manufacturers and local parties nearly 10% will be dumped in the earmarked dump yard. An area of 72 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.


10.0 The Public hearing of the project was held on 05.05.2016 under the Chairmanship of District Magistrate, Bhandara. The issues raised during public hearing *inter alia* include demands regarding employment opportunity, training, skill development, education, provision of health care, water supply facility, pollution control measures, avenue plantation, etc.

11.0 It is estimated that the capital cost of the expansion project is Rs. 1510 Crores and the capital cost for environmental protection measures is Rs. 33.9 crores. The annual recurring cost towards the environmental protection measures is proposed as Rs. 10.6 crores. However, the actual capital cost on pollution control equipment and recurring cost will be in proportion to the cost of executed project.

12.0 The proposal was considered during the 11th meeting of the Expert Appraisal Committee (Industry - I) held on 26th to 27th September, 2016 and recommended the project for Environmental Clearance and stipulated Specific Conditions along with other environmental conditions while considering for accord of environmental clearance.

13.0 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 to the above mentioned Expansion of integrated steel plant from 0.5 MTPA to 1.0 MTPA of M/s Sunflag Iron & Steel Co. Ltd., 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:

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- i. The project proponent shall install 24x7 air monitoring devices to monitor air emissions, as provided by the CPCB and submit report to Ministry and its Regional Office.
 - ii. The canal passing through the project site should be fenced on both the sides, leaving a passage for maintenance related activities by the concerned department. No effluent should be discharged into the canal. No water from the canal should be abstracted without permission.
 - iii. The natural drainage passing through the site should not be disturbed or diverted and no solid waste or liquid effluent should be discharged into the drain.
 - iv. A statement on carbon budgeting including the quantum of equivalent CO₂ being emitted by the existing plant operations, the amount of carbon sequestered annually by the existing green belt and the proposed green belt and the quantum of equivalent CO₂ that will be emitted due to the proposed expansion shall be prepared by the project proponent and submitted to the Ministry and the Regional Office of the Ministry. This shall be prepared every year by the project proponent. The first such budget shall be prepared within a period of 6 months and subsequently it should be prepared every year.


- v. For the employees working in high temperature zones falling in the plant operation areas, the total shift duration would be 4 hrs or less per day where the temperature is more than 50°C. Moreover, the jobs of these employees will be alternated in such a way that no employee is subjected to working in high temperature area for more than 1 hr continuously. Such employees would be invariably provided with proper protective equipments, garments and gears such as head gear, clothing, gloves, eye protection etc.
- vi. Continuous stack monitoring facilities for all the stacks shall be provided and sufficient air pollution control devices viz. Electrostatic precipitator (ESP), bag house, bag filters etc. shall be provided to keep the emission levels below 50 mg/Nm³ and installing energy efficient technology.
- vii. Efforts shall further be made to use maximum water from the rain water harvesting sources. Use of air cooled condensers shall be explored and closed circuit cooling system shall be provided to reduce water consumption and water requirement shall be modified accordingly. All the effluent should be treated and used for ash handling, dust suppression and green belt development. A revised water balance statement should be submitted by the Project Proponent with the 6 monthly compliance report.
- viii. All the coal fines and char shall be utilized within the plant and no char shall be used for briquette making or disposed off anywhere else. Scrap shall be used in steel melting shop (SMS) and SMS slag and kiln accretions shall be properly utilized. All the other solid waste including broken refractory mass shall be properly disposed off in environment-friendly manner.
- ix. All internal roads shall be black topped/Concretized/Paver blocked or shall be any other type of pucca road. The roads shall be regularly cleaned with mechanical sweepers. A 3-tier avenue plantation using native species shall be developed along the roads. Facilities for parking of trucks carrying raw coal from the linked coalmines shall be created within the Unit.
- x. The Standards issued by the Ministry vide G.S.R. No. 277(E) dated 31st March, 2012 regarding integrated iron and steel plant shall be followed.
- xi. 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.
- xii. Gaseous emission levels including 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 30th May, 2008 and regularly monitored. Guidelines / Code of Practice issued by the CPCB shall be followed.
- xiii. 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.
- xiv. 'Zero' effluent discharge shall be strictly followed and no wastewater shall be discharged outside the premises. The calculations to this effect shall be submitted.

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- xv. Regular monitoring of influent and effluent surface, sub-surface and ground water shall be ensured and treated wastewater shall meet the norms prescribed by the State Pollution Control Board or described under the E(P) Act whichever are more stringent.
 - xvi. 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, SPCB and CPCB.
 - xvii. A time bound action plan shall be submitted to reduce solid waste generated due to the project related activities, its proper utilization and disposal.
 - xviii. 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 shall be submitted to the Ministry's Regional Office at Chennai.
 - xix. A Risk and Disaster Management Plan shall be prepared and a copy submitted to the Ministry's Regional Office, SPCB and CPCB within 3 months of issue of environment clearance letter.
 - xx. Green belt shall be developed in at least 33% of the project area by planting native and broad leaved species in consultation with local DFO and local communities as per the CPCB guidelines.
 - xxi. 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 shall be prepared and submitted to the Ministry's Regional Office. Implementation of such program shall be ensured by constituting a Committee comprising of the proponent, representatives of village Panchayat and District Administration. Action taken report in this regard shall be submitted to the Ministry's Regional Office.
 - xxii. The proponent shall prepare a detailed CSR Plan for every year for the next 5 years for the existing-cum-expansion project, which includes village-wise, sector-wise (Health, Education, Sanitation, Health, Skill Development and infrastructure requirements such as strengthening of village roads, avenue plantation, etc) activities in consultation with the local communities and administration. The CSR Plan will include the amount of 2% retain annual profits as provided for in Clause 135 of the Companies Act, 2013 which provides for 2% of the average net profits of previous 3 years towards CSR activities for life of the project. A separate budget head shall be created and the annual capital and revenue expenditure on various activities of the Plan shall be submitted as part of the Compliance Report to RO. The details of the CSR Plan shall also be uploaded on the company website and shall also be provided in the Annual Report of the company.
 - xxiii. The Company shall submit within three months their policy towards Corporate Environment Responsibility which shall inter-alia address (i) Standard operating process/procedure to bring into focus any infringement/deviation/ violation of environmental or forest norms/conditions, (ii) Hierarchical system or Administrative order of the Company to deal with environmental issues and

ensuring compliance to the environmental clearance conditions and (iii) System of reporting of non-compliance/violation environmental norms to the Board of Directors of the company and/or stakeholders or shareholders.

- xxiv. The project proponent shall provide for solar light system for all common areas, street lights, villages, parking around project area and maintain the same regularly.
- xxv. The project proponent shall provide for LED lights in their offices and residential areas.
- xxvi. The project proponent shall install bio gas plant for kitchen waste utilization generated in their plant canteen and township (If any). The generated gas shall be utilised in their canteen and manure shall be used in their garden.
- xxvii. 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.
- xxviii. Public health centre of the factory should be strengthened and also extend medical facilities to the villagers inhabiting surrounding areas. A report in this regard to be submitted along with the 6 monthly compliance report.

B. GENERAL CONDITIONS:

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- i. The project authorities must strictly adhere to the stipulations made by the Maharashtra 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 (MoEFCC).
 - 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. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Nagpur and the SPCB/CPCB once in six months.
 - iv. 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.
 - v. 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).

- vi. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- vii. The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.
- viii. 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.
- ix. Requisite funds shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change (MoEFCC) as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Nagpur. The funds so provided shall not be diverted for any other purpose.
- x. A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.
- xi. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEFCC at Nagpur. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM₁₀, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
- xii. The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEFCC, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Nagpur / CPCB / SPCB shall monitor the stipulated conditions.
- xiii. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Office of the MOEFCC at Nagpur by e-mail.
- xiv. 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 SPCB and may

also be seen at Website of the Ministry of Environment, Forests and Climate Change (MoEFCC) at <http://envfor.nic.in>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional office at Nagpur.

- xv. 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.

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

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

16.0 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, Handling and Transboundary Movement) Rules, 2008 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.


(Sharath Kumar Pallerla)
Scientist 'F'

Copy to:-

1. The Secretary, Department of Environment, Government of Maharashtra.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi, 110032.
3. The Chairman, Maharashtra Pollution Control Board, "Kalpataru Point, 3rd and 4th floor, Opp. Cine Planet, Sion Circle, Road Number 8, Jay Bharat Mata Nagar, Air Force Quarters, Sion, Mumbai, Maharashtra 400022".
4. The Additional Principal Chief Conservator of Forests (C) of Ministry of Environment Forest and Climate Change Regional Office(WCZ), Ground Floor, East Wing, New Secretariat Building, Civil Line, Nagpur-440001
5. Guard File / Record File/Monitoring file.


(Sharath Kumar Pallerla)
Scientist 'F'