

F. No. J-11011/376/2011-IA II (I)
Government of India
Ministry of Environment, Forest and Climate Change
(I.A. Division)

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Dated: 30th September, 2016

To

✓
M/s Mideast Integrated Steel Ltd.
Mesco Towers: 3915, Lewis Road,
Kedar Gauri Square, Bhubneswar,
Odisha-751014

Fax No. - 0674-2432256

Subject: Expansion of Integrated Steel Plant (from 1.0 MTPA to 3.5 MTPA) of M/s Mideast Integrated Steels Ltd. located at Kalinganagar Industrial Complex, Tehsil – Danagadi, District Jajpur, Odisha- Environment Clearance-regarding

Sir,

This has reference to your letter No. MISL/BBSR-13/Plant/604 dated 23rd August, 2013 along with copies of EIA/EMP report and subsequent letters dated 27th January, 2015, 8th April, 2015 and 23rd May, 2015 seeking Environment Clearance under the provisions of the EIA Notification, 2006 for the project mentioned above. The ToRs for the proposal were awarded by Ministry vide letter No. J-11011/376/2011-IA.II(I) 9th September, 2011 for preparation of EIA/EMP report. The proposed project activity is listed at S.No. 3(a) in primary metallurgical industry under Category 'A' of the Schedule of EIA notification 2006 and appraised by the Expert Appraisal Committee (Industry).

2.0 The Ministry of Environment, Forest and Climate Change has examined the application. It has been noted that environmental clearance for 0.5 MTPA capacity Integrated Mini Steel Plant was granted vide letter No. J-11011/3/94-IA.II(I) dated 15.6.1995. Subsequently, environmental clearance for the expansion from 0.5 MTPA to 1.0 MTPA Integrated Steel Plant was accorded vide letter No.J-11011/18/95-IA-II dated 11.6.1998. M/s Mideast Integrated Steel Limited have now proposed to expand its existing steel plant capacity from 1 MTPA to 3.5 MTPA. Proposed expansion project will be set up over an area of 377.56 acres, within the existing plant premises of 584.68 acres. The project site lies between 86^o01'54.26" to 86^o03'14.28"E longitude and 20^o58'03.82" to 20^o59'6.01"N latitude as per toposheet No. 73L/1 of Survey of India. No Forest land is involved. No Defence Installation, Biosphere Reserve, National Park/Wild Life Sanctuary, Ecologically Sensitive Area is located within 10 km radius of the project site. No court case/litigation is pending against the project. Khurunti village is located at a distance of 1 km from the project site.



River Brahmani flows at a distance of 9 km from the project site. Baranga RF exists at a distance of 6 km from the project site. Total cost of the project is Rs. 9491.00 crores. An amount of Rs. 646.3 crores and Rs. 98 crores are earmarked for the capital cost and recurring cost per annum towards the environmental pollution control measures. An amount of Rs. 475 crores is earmarked towards the Enterprise Social Commitment related activities based on Public Hearing issues.

The capacity of existing and proposed project activity has been tabulated below:

| S. N. | Description | Existing | Proposed expansion | Post Expansion |
|---|-----------------------------|-----------|--------------------|----------------|
| 1 | Coke oven (Recovery Type) | -- | 1.5MTPA | 1.5 MTPA |
| 2 | Sinter plant* | 0.68 MTPA | 2.7 MTPA | 3.38 MTPA |
| 3 | Blast furnace | 1.0 MTPA | 1.94 MTPA | 2.94 MTPA |
| 4 | SMS | | | |
| | EAF (Billets) | -- | 0.75 MTPA | 0.75 MTPA |
| | BOF (slab) | -- | 1.10 MTPA | 1.10 MTPA |
| | BOF (Billets) | -- | 1.62 MTPA | 1.62 MTPA |
| 5 | Rolling Mill | | | |
| | (a) Rebar Mill | -- | 0.8 MTPA | 0.8 MTPA |
| | (b) Wire rod mill | -- | 0.75 MTPA | 0.75 MTPA |
| 6 | Lime Kiln | -- | 2x500 + 1x 225 TPD | 1225 TPD |
| 7 | Oxygen Plant | -- | 2000 TPD | 2000 TPD |
| 8 | Waste gas based Power plant | 2x4.5 MW | 2x25 MW | 59 MW |
| *Charged/to be charged to Blast Furnace | | | | |

3.0 The raw materials required are imported hard coal (1,226,900 TPA), imported semi-soft coal (660,600 TPA), PCI coal (4,46,000 TPA), iron ore (792,300 TPA), iron ore fines (2688300 TPA), DRI (470,510 TPA), limestone (378,300 TPA), pyroxenite (221,700 TPA), pellet (1,263,800 TPA), Quartzite (40920 TPA), limestone (644,000 TPA) and dolomite (142,700 TPA). Iron ore will be sourced from the mines at Roida and Malangtoli. Coal will be imported. The ash and sulphur content in the imported coal would be 9.7% and 0.6% respectively. The ash and sulphur content in the PCI coal would be 9.5% and 0.6% respectively. The power requirement after the proposed expansion would be 295 MW, which will be met from the CPP (WHRB) and balance from Duburi substation SEB grid located at 7 km distance from the project site. Raw material and products (2.5 MTPA) will be transported through road, raw material and products (11.65 MTPA) will be transported through rail and 1.26 MTPA raw material will be transported through belt conveyor.

4.0 Hot Gas from BF will be treated in GCP before discharging to atmosphere. To control air emission in the plant, bag house, bag filters will be installed. The material handling section would be provided with dust suppression (DS) by water sprinkling at the stockyards and multiple dust extraction (DE)s. Good housekeeping practices will be adopted to control the fugitive emissions.

5.0 The estimated total water requirement for the project is 3040 m³/hr which would be abstracted via infiltration bore wells on the bed of River Brahmani near Jokadia weir at a distance of 17 km from the plant. The unit has obtained permission from Odisha Industrial Infrastructure Development Corporation (IDCO) on 18.12.2013 for the water drawl. No industrial waste water will be generated in the Plant. Treated water shall be used for dust suppression, slag quenching & GCP. Waste water from RWTP is/will be discharged in slurry form and the same will be used for dust suppression and horticulture after passing through drying beds. Granulated B.F slag, sinter dust, coke fines from the stock house and CDQ dust will be re used in Sinter plant. STP Sludge will be utilized as manure for green belt development within the plant premises. Out of the total plant area i.e. 377.56 acres, 33% will be developed under green belt / plantation in a scientific manner around the plant boundary, roadside, office buildings and stretches of open land.

6.0 Public Hearing/Public Consultation was conducted by Odisha State Pollution Control Board on 12.04.2013 under the chairmanship of Collector & District Magistrate, jajpur at Dhanagadi Bhawan, Danagadi. The issues raised during public hearing inter-alia include proper compensation of land, development work in near-by villages, employment to the locals, plantation & maintenance of trees, facilities for higher education & health, water conservation, road development, more plantation, employment facilities etc. An amount of Rs. 475 crores is earmarked towards the Enterprise Social Commitment related activities based on Public Hearing issues.

7.0 The proposal was considered by the Expert Appraisal Committee (Industry-I) in its 21st meeting held during 30th July 2014 to 1st August 2014 and in the 41st EAC meeting held on 1st - 2nd June, 2015. After detailed deliberations, the EAC (I) recommended the project for Environmental Clearance and stipulated Specific Conditions along with other environmental conditions while considering for accord of Environmental Clearance.

8.0 The Ministry of Environment, Forest and Climate Change (MoEFCC) on the basis of the aforesaid recommendations of the EAC (I), hereby decided to grant Environmental Clearance to the aforesaid project under the provisions of EIA Notification dated 14th September 2006, as amended, subject to strict compliance of the following Specific and General conditions:

A. SPECIFIC CONDITION:

- i. The project proponent should install 24x7 air monitoring devices to monitor air emission and submit report to Ministry and its Regional Office.
- ii. The ETP for Blast furnace effluent should be designed to meet Cyanide standards as notified by the MoEFCC.
- iii. No effluent shall be discharged outside the plant premises and 'zero' discharge shall be adopted.
- iv. The ETP for coke oven by-product should be designed to meet EPA notified standards especially the cyanide and phenol.

- v. Coke oven plant should meet visible emission standards notified by the MoEFCC.
- vi. Recommendation of ESC report as prepared by Xavier Institute of Management, Bhubaneswar to be adhered to.
- vii. On-line ambient air quality monitoring and continuous stack monitoring facilities for all the stacks shall be provided and sufficient air pollution control devices viz. Electrostatic precipitator (ESP), and bag filters etc. shall be provided.
- viii. In-plant control measures and dust suppression system shall be provided to control fugitive emissions from all the vulnerable sources. Dust extraction and suppression system shall be provided at all the transfer points, coal handling plant and coke sorting plant of coke oven plant. Bag filters shall be provided to hoods and dust collectors to coal and coke handling to control dust emissions. Water sprinkling system shall be provided to control secondary fugitive dust emissions generated during screening, loading, unloading, handling and storage of raw materials etc.
- ix. 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.
- x. Hot gases from DRI Kiln should be passed through dust settling chamber (DSC) to remove coarse solids and After Burning Chamber (ABC) to burn CO completely and used in Waste Heat Recovery Boiler (WHRB). The gas then shall be cleaned in ESP before dispersion out into the atmosphere through ID fan and stack. ESP shall be installed to control the particulate emission from WHRB.
- xi. Efforts shall further be made to use maximum water from the rain water harvesting sources. If needed, capacity of the reservoir shall be enhanced to meet the maximum water requirement.
- xii. Risk and Disaster Management Plan along with the mitigation measures 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.
- xiii. All the blast furnace (BF) slag shall be granulated and provided to cement manufacturers for further utilization. Flue dust from sinter plant and SMS and sludge from BF shall be re-used in sinter plant. Coke breeze from coke oven plant shall be used in sinter and pellet plant. SMS Slag shall be given for metal recovery and properly utilized. All the other solid waste including broken refractory mass shall be properly disposed off in environment-friendly manner.
- xiv. Coal and coke fines shall be recycled and reused in the process. The breeze coke and dust from the air pollution control system shall be reused in sinter plant. The waste oil shall be properly disposed of as per the Hazardous Waste (Management, Handling, Handling and Transboundary Movement) Rules, 2008.

- xv. Green belt shall be developed in 33 % of plant area. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.
- xvi. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plants and Coke Oven Plants shall be implemented.
- xvii. At least 5 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment (ESC) 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 at Bhubaneswar. Implementation of such program shall be ensured accordingly in a time bound manner.
- xviii. All the commitments made to the public during the Public Hearing / Public Consultation meeting shall be satisfactorily implemented and a separate budget for implementing the same shall be allocated and information submitted to the Ministry's Regional Office at Bhubaneswar.
- xix. 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 Odisha 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 Bhubaneswar 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 form 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).

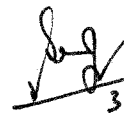
- vi. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- vii. The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.
- 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 Bhubaneswar. 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 Bhubaneswar. 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 Bhubaneswar / 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 Bhubaneswar 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 Bhubaneswar.
- 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.

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

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

11.0 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.


31/09/2016
(Dr. Satish C. Garkoti)
Scientist 'F'

Copy to:-

1. The Secretary, Department of Environment, Government of Odisha, Bhubaneswar.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi, 110 032.
3. The Chairman, Odisha Pollution Control Board, "Paribesh Bhawan, A/118, Nilakantha Nagar, Unit-VIII, Bhubaneswar-751012.
4. The Additional Principal Chief Conservator of Forests (C) Ministry of Environment, Forest and Climate Change, Regional Office (EZ), A/3, Chandersekharpur, Bhubaneswar-751023, Odisha.
5. Guard File / Record File/Monitoring file.

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