

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY
CHHATTISGARH
Government of India
Ministry of Environment and Forests

Commercial Complex,
Chhattisgarh Housing Board Colony,
Kabir Nagar,
Raipur (C.G.)

E-mail: seiaacg@gmail.com

No. 197 /SEIAA-CG/ EC/IF-RM/BSP/224/2011

Raipur, Date 20/11/2012

To

The Director,
M/s Mangal Sponge and Steel Private Limited,
Post - Bilha, 494224
District - Bilaspur (C.G.)

Sub: Environment Clearance for expansion by installation of induction furnace for manufacturing of steel ingots/billets of capacity 144000 TPA and installation of rolling mill for manufacturing of rolled and structural products of capacity 105000 TPA in existing sponge iron plant premises at Village - Bilha & Mohabhata, Post & Tehsil - Bilha, District - Bilaspur (C.G.) by M/s Mangal Sponge and Steel Private Limited- Environment Clearance Regarding.

Ref: Your letter no. nil dated 17/06/2010 and subsequent correspondence ending letter dated 07/03/2012.

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The undersigned is directed to refer to your communication dated 17/06/2010 and 07/03/2012 regarding the subject mentioned above.

You have submitted application (Form-I and Pre-feasibility Report) for prescribing Terms of Reference (TOR) for preparation of draft EIA report for obtaining Environment Clearance on 17/06/2010 for expansion by installation of induction furnace for manufacturing of steel ingots/billets of capacity 144000 TPA and installation of rolling mill for manufacturing of rolled and structural products of capacity 105000 TPA in existing sponge iron plant premises at Village - Bilha & Mohabhata, Post & Tehsil - Bilha, District - Bilaspur (C.G.). The project cost of Rs. 41.00 Crore. The total area is 108.00 acres.

The proposal was discussed in 59th, 71st, 85th and 87th meeting held on 25/06/2010, 10/01/2011, 05/05/2012 and 30/06/2012 of SEAC, Chhattisgarh.

The project proponent presented the case before SEAC, Chhattisgarh in 90th meeting of SEAC Chhattisgarh held on 31/08/2012 and also submitted the information/ proposal vide letter dated 31/08/2012.

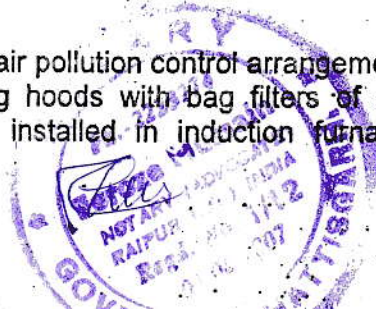
The Committee considered the proposed activity from the point of view of its location, size and nature i.e. Rolling Mill and Induction Furnace of comparatively small capacity and felt that no significant impact on the surrounding is anticipated. Based on the consideration of the documents submitted and discussion held, the committee considered the proposal as 'B2' category and recommended to grant environmental clearance, subject to fulfillment of the terms and conditions mentioned in the minutes of the meeting.

ATTESTED.
PHOTO / DUPLICATE COPY.

SEIAA, Chhattisgarh perused the proposal/information/documents submitted by the project proponent in its 24th meeting held on 10/10/2012. After deliberation, the SEIAA, Chhattisgarh unanimously decided to accept the recommendation of SEAC, Chhattisgarh and decided to grant environmental clearance for expansion by installation of induction furnace for manufacturing of steel ingots/billets of capacity 144000 TPA and installation of rolling mill for manufacturing of rolled and structural products of capacity 105000 TPA in existing sponge iron plant premises, subject to the terms and conditions already mentioned by SEAC, Chhattisgarh in its detailed minutes of the meeting.

Accordingly, environmental clearance is hereby accorded for expansion by installation of induction furnace for manufacturing of steel ingots/billets of capacity 144000 TPA and installation of rolling mill for manufacturing of rolled and structural products of capacity 105000 TPA in existing sponge iron plant premises at Village - Bilha & Mohabhata, Post & Tehsil - Bilha, District - Bilaspur (C.G.) subject to the terms and conditions mentioned below:-

1. Project authority shall provide adequate facility for proper treatment of industrial effluent (if any) and domestic effluent. Domestic effluent shall be treated in well-designed septic tank and soak pits. In case of any failure of effluent treatment arrangement, it shall be immediately rectified or same alternate arrangement shall be provided. Treated effluent shall be utilized either in process or for plantation purposes within plant premises only. Project authority shall make arrangement of suitable drains/pipe networks to ensure adequate flow for full utilization of treated effluent inside the premises. No effluent shall be discharged out of plant premises under any circumstances. Hence zero discharge condition outside the premises shall be maintained all the time. Project authority shall ensure the treated effluent quality within standard prescribed by Ministry of Environment & Forests, Government of India. Industrial wastewater shall conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and December, 1993 or as amended from time to time.
2. Any liquid effluent what so ever generated from industrial activities shall not be discharged into the river or any surface water bodies under any circumstances, and it shall be reused wholly in the process/plantation. All the industrial effluent generated shall be re-circulated/reused after proper treatment. The treated domestic effluent shall be used for plantation purpose after proper disinfection. The concept of zero discharge shall be maintained all the time except during monsoon. Arrangements shall be made that effluents and storm water do not get mixed.
3. Project authority shall provide adequate measuring arrangements for the measurement of water utilized in different categories and effluent generated before commissioning of the plant.
4. Closed cycle cooling system shall be provided. Minimum water for makeup purposes shall be ensured.
5. The proposed rolling mill shall be basically producer gas fired. Coal shall be required as main raw material for the generation of producer gas. However furnace oil requirement to be used as fuel in reheating furnace of rolling mill shall not exceed 5775 KL/Year as per the proposal submitted vide letter dated 17/06/2010.
6. Project authority shall provide adequate air pollution control arrangements at all point and non point sources. Collecting hoods with bag filters of adequate capacity and high efficiency shall be installed in induction furnaces with

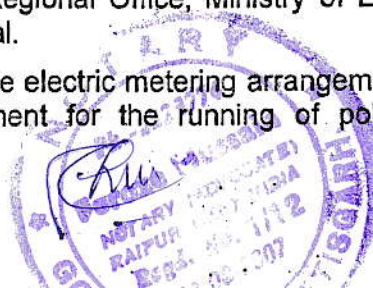


minimum 30 meter stack to ensure outlet dust (particulate matter) emission less than 50 mg/Nm³ all the time. Wet scrubber of adequate capacity and high efficiency shall be installed in rolling mill reheating furnace with minimum 54 meter stack to ensure outlet dust (particulate matter) emission less than 50 mg/Nm³ all the time. Project authority shall install suitable & effective air pollution control equipments at all transfer points, junction points etc. also. All the conveying system, transfer point, junction point etc. shall be covered. Adequate provision shall be made for sprinkling of water at strategic locations to ensure dust does not get air borne. For controlling fugitive dust, regular sprinkling of water in vulnerable areas of the plant shall be ensured. Proper ventilation shall also be provided in rolling mill plant and induction furnace unit. The emission of pollutants from any point source shall not exceed the following limit: -

Particulate Matter	50 mg/Nm ³ (Fifty Milligram per Normal Cubic Meter)
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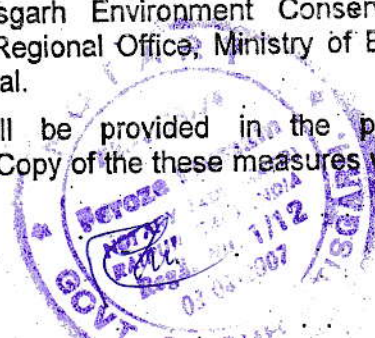
Project authority shall provide proper space provision for further retrofitting of air pollution control systems in case of further stringency of particulate matter emission limit. The height of other stack(s) shall not be less than 30 meters.

7. The gaseous emissions from various processes units shall conform to the load/mass based standards notified by this Ministry of Environment and forests, Government of India on 19th May, 1993 and standards prescribed from time to time. The Chhattisgarh Environment Conservation Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location. At no time the emission level shall go beyond the prescribed standards. Interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.
8. Secondary fugitive emissions shall be controlled and shall be kept within the prescribed limits and regularly monitored. Guidelines/Code of Practice issued by the CPCB in this regard shall be followed. Project authority shall maintain fugitive dust emissions to the minimum level in the areas of road transportation routs of raw material, product to ensure National Ambient Air Quality Standards prescribed including black topping/asphalting/concreting and maintenance with requisite water sprinkling arrangements.
9. All air pollution control systems shall be kept in good running conditions all the time and failure (if any), shall be immediately rectified without delay otherwise similar alternate arrangement shall be made. In the event of any failure of any pollution control system adopted by the Project authority, the respective production unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.
10. Regular monitoring of ground level concentration of SO₂, NO_x, PM₁₀ and PM_{2.5} at at-least four stations shall be carried out in the impact zone and records maintained. If at any stage these levels are found to exceed the prescribed limits, the plant shall cease all operations till necessary control measures are provided. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with Chhattisgarh Environment Conservation Board Raipur. The data so collected shall be properly analyzed and periodic reports shall be submitted to Chhattisgarh Environment Conservation Board, Raipur, Regional Office, Chhattisgarh Environment Conservation Board, Raipur, SEIAA, Chhattisgarh and Regional Office, Ministry of Environment & Forests, Government of India, Bhopal.
11. Project authority shall install separate electric metering arrangements with time totalizer and interlocking arrangement for the running of pollution control



devices. These arrangements shall be made in such a fashion that any non-functioning of pollution control device/devices shall immediately stop the electric supply to the fuel/raw materials supply system and shall remain tripped till the pollution control device/devices are made functional again/rectified to achieve the desired efficiency.

12. Project authority shall utilize the fly ash bricks/blocks etc. in all construction activities.
13. Project authority shall take effective steps for safe disposal of solid wastes and sludge. Furnace slag shall be crushed and passed through magnetic separator to recover the metallic contents and the same shall be utilized as raw material in steel making. Non-metallic contents shall be used in back filling within plant premises. End cutting from rolling mill shall be used as raw material in own Induction Furnaces for steel making. Mill scales shall be sold to sinter plant/ Ferro alloys/ Casting units. Oily sludge shall be sold to authorized recyclers / re-processors for proper disposal through incineration. Project authority shall obtain authorization from Board for management and handling of hazardous materials as per Hazardous Wastes (Management, Handling and Tran boundary Movement) Rules, 2008.
14. All the internal roads shall be made pucca before commissioning of the plant. Project authority shall adopt good house keeping practices.
15. Project authority shall take proper action to control the noise pollution. Project authority shall install appropriate noise barriers /control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation to control the noise. Earplugs/ear muffs etc. shall be provided to the employee working in the high noise areas. Leq of /noise levels emanating from machines shall be limited to 75 dBA. The noise level shall not exceed the limits 75 dB (A) during the daytime and 70 dB (A) during the night time within the factory premises. Project authority shall take adequate measures for control of noise level below 85 dB (A) in the work environment. Workers engaged in noisy areas shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including rotating them to non-noisy/ less noisy areas.
16. Project authority shall provide appropriate arrangements to avoid air pollution, water pollution, noise pollution etc. during construction phase and during transportation of plants/machineries/equipments/ construction materials etc. to the site. For controlling fugitive dust during transportation and construction works, regular sprinkling of water in village roads and other vulnerable areas of the plant shall also be ensured. The emission from vehicles engaged for transportation of plants/machineries/ equipments/construction materials etc. to the site shall be ensured within prescribed vehicle emission norms. First aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.
17. The construction of effluent treatment system and installation of air pollution control equipments shall be taken up simultaneously with other civil/mechanical works of proposed unit. The progress of the activities related to the project shall be submitted periodically to Chhattisgarh Environment Conservation Board, Raipur, Regional Office, Chhattisgarh Environment Conservation Board, Raipur, SEIAA, Chhattisgarh and Regional Office, Ministry of Environment & Forests, Government of India, Bhopal.
18. Adequate safety measures shall be provided in the plant area to check/minimize spontaneous fires. Copy of these measures with full details



along with location plant layout shall be submitted to Chhattisgarh Environment Conservation Board, Raipur, Regional Office, Chhattisgarh Environment Conservation Board, Raipur, SEIAA, Chhattisgarh and Regional Office, Ministry of Environment & Forests, Government of India, Bhopal.

19. Disaster Management plan shall be prepared to meet any eventuality in case of an accident taking place. Mock drills shall be conducted regularly and based on the same, modifications required, if any shall be incorporated in the DMP.
20. As far as possible maximum area of open spaces shall be utilized for plantation purposes. Project authority shall abide by the decisions taken by Ministry of Environment and Forests, Government of India / Central Government/ Central Pollution Control Board from time to time in this regard. Tree density of 1500–2000 trees per hectare with local broad leaf species should be maintained. A wide green belt of broad leaf local species shall be developed in at least 33% of the project area. Central Pollution Control Board guidelines shall be followed in planning and developing green belt and selection of species etc.
21. Project authority shall provide garland drains with appropriate check dams all along the raw materials storage areas etc. to avoid any possibility of erosion (wearing away) during rain. Garland drain (size, gradient & length) and sump capacity shall be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the project site. Sump capacity shall also provide adequate retention period to allow proper settling of silt material. Sedimentation pits shall be constructed at the corners of the garland drains. Project authority shall provide adequate collection and treatment arrangement for proper management of storm water. The surface run-off shall be de-silted through a series of check dams and drains.
22. Project authority shall adopt rainwater-harvesting technique in the project area for recharge of ground water. The rainwater-harvesting technique shall be incorporated right from the design stage of all structures. Project authority shall develop rainwater-harvesting structures to harvest the rainwater for utilization in the lean season as well as to recharge the ground water table. A detailed scheme for rainwater harvesting to recharge the ground water aquifer shall be prepared in consultation with Central Ground Water Authority/State Ground Water Board. A copy of the same shall be submitted within three months to the Chhattisgarh Environment Conservation Board, Raipur, Regional Office, Chhattisgarh Environment Conservation Board, Raipur, SEIAA, Chhattisgarh and Regional Office, Ministry of Environment & Forests, Government of India, Bhopal.
23. 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, crutch etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
24. Occupational Health Surveillance of the workers should be done on a regular basis and records maintained as per the factories Act.
25. The project proponent shall also comply with all the environmental protection measures and safe guards recommended in the Environment Management Plan.
26. Project authority shall establish an environmental management cell to carryout function relating to environmental management under the supervision of senior executive who shall directly report to the head of organization. A full-fledged laboratory with qualified technical/scientific staffs to monitor the influent,



effluent, ground water, surface water, soil, stack emission and ambient air quality etc. shall be provided.

27. Adequate funds shall be allocated for undertaking CSR activities (community welfare, environmental development activities apart from committed plantation) and in any case it shall not be less than Rs. 15.0 lakhs per year. Project authority must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc. Details of activities shall also be submitted to Chhattisgarh Environment Conservation Board, Raipur, Regional Office, Chhattisgarh Environment Conservation Board, Raipur, SEIAA, Chhattisgarh and Regional Office, Ministry of Environment & Forests, Government of India, Bhopal. The funds earmarked for the environment protection measures shall not be diverted for other purpose and year-wise expenditure should be reported to the Chhattisgarh Environment Conservation Board, Raipur, Regional Office, Chhattisgarh Environment Conservation Board, Raipur, SEIAA, Chhattisgarh and Regional Office, Ministry of Environment & Forests, Government of India, Bhopal. Local laboures shall be given employment during construction and subsequently absorbed in the plant.
28. The issuance of this environmental clearance does not convey any property rights in either real or personal property, or any exclusive privileges, nor does not authorize any injury to private property or any invasion of personal rights, nor any infringement of Central, State or Local laws or regulations.
29. SEIAA, Chhattisgarh reserves the right to amend/cancel any of the conditions and add new conditions and make further stringent the emission/effluent limit as and when deemed necessary in the interest of environmental protection, change in the project profile or non-satisfactory implementation of the stipulated conditions etc.
30. The Project authority shall ensure the generation of employment in the local areas, recruitment shall be done by inviting applications first from the local residents of the Chhattisgarh State. In case of non-availability of suitable candidates for certain post in the first attempt, the Project authority may call the applications as second call not only from local residents of the Chhattisgarh State but also from other State.
31. The Project authority shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Chhattisgarh Environment Conservation Board and may also seen at Website of the Ministry of Environment and Forests at www.envfor.nic.in and website of SEIAA, Chhattisgarh at www.seiaacg.org.
32. Half yearly report on the status of implementation of the stipulated conditions and environment safeguards shall be submitted to the Chhattisgarh Environment Conservation Board, Raipur, Regional Office, Chhattisgarh Environment Conservation Board, Raipur, SEIAA, Chhattisgarh and Regional Office, Ministry of Environment & Forests, Government of India, Bhopal.
33. Regional Office of the Ministry of Environment and Forests at Bhopal shall monitor the implementation of the stipulated conditions. A complete set of documents including Environment Impact Assessment Report and Environment



Management Plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring.

34. The project authorities shall inform the Regional Office as well as the SEIAA, Chhattisgarh regarding the date of financial closure and final approval of the project by the concerned authorities and the dates of start of commissioning of plant with expanded capacity.
35. Full cooperation shall be extended to the Scientists/Officers from the SEIAA, Chhattisgarh, Ministry of Environment & Forests, Government of India/Regional Office, Ministry of Environment & Forests, Government of India, Bhopal/the CPCB/the Chhattisgarh Environment Conservation Board, who would be monitoring the compliance of environment status.
36. The environment clearance accorded shall be valid for a period of 5 years to start of production.
37. In case of any deviation or alteration in the proposed project from those submitted to this SEIAA, Chhattisgarh for clearance, a fresh reference should be made to the SEIAA, Chhattisgarh to assess the adequacy of the condition(s) imposed and to add additional environment protection measures required, if any. No further expansion or modifications in the plant should be carried out without prior approval of the Ministry of Environment and Forests, Government of India/SEIAA, Chhattisgarh.
38. The project authorities must strictly adhere to the stipulations made by the Chhattisgarh Environment Conservation Board (CECB) and the State Government.
39. The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management, Handling and Trans Boundary Movement) Rules, 2008 and its amendments, the Public Liability Insurance Act, 1991 and its amendments.
40. 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.

ATTESTED.
PHOTO / DUPLICATE COPY

Rupa

Feroze Hussain
Advocate & Notary,
Raipur District.

[Signature]

Member Secretary
State EIA Authority, Chhattisgarh
Raipur (C.G.)

Endt. No. /SEIAA-CG/ EC/IF-RM/BSP/224/2011

Raipur, Date : / /2012

Copy to:-

1. The Principal Secretary, Department of Environment, Mantralaya Chhattisgarh, Raipur-492001
2. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-Cum-Office Complex, East Arjun Nagar, Delhi - 100 032.
3. The Chairman, Chhattisgarh Environment Conservation Board, Commercial Complex, Chhattisgarh Housing Board Colony, Kabir Nagar, Raipur (C.G.).



4. Director, Ministry of Environment & Forests, Government of India, Paryavaran Bhawan, CGO Complex, Lodhi Road, New Delhi.
5. The Chief Conservator of Forests (C) Regional Office (WZ), Ministry of Environment & Forests, Kendriya Paryavaran Bhawan, Link Road No.-3, E-5, Arera Colony, Bhopal.

Member Secretary
State EIA Authority, Chhattisgarh
Raipur (C.G.)



ATTESTED.
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(Signature)

Pooze Hussain
Advocate & Notary,
Raipur District,
RAIPUR, (C.G.)