

State Level Environment Impact Assessment Authority, Jharkhand.

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Letter No.-EC/SEIAA / 2015-16 / 872 / 2015 / 1595

Ranchi, Date: 09-09-2015

To: Mr. I. Mitra,

General Manager,

M/s Usha Martin Limited,

Straight Bar & Wire Mill Division,

P.O- Gamharia, Dist.- Saraikela-Kharsawan,

Jharkhand - 832108.

Sub.: Prescribing of ToR to Modernization cum Expansion of Straight Bar & Wire Mill of M/S Usha Martin Limited, Adityapur Industrial Area Village- Gamgaria, P.O-Jamshedpur, Dist.- Saraikela Kharsawan, Jharkhand -Regarding.

Ref: Your application & Letter dated:-15-07-2015.

Sir,

Reference is invited to your letter along with the application in the prescribed format (Form-I) and a copy of the pre-feasibility report to prescribe the ToRs for undertaking detailed EIA study for the purpose of obtaining environmental clearance under the provisions of the EIA Notification, 2006 in respect of the above mentioned project.

The Company is an integrated manufacturer of steel billets, wire rods, straight bars, blooms, wires and wire ropes. The bar product segments in which the Company operates includes specialty steel products for a number of critical applications of various automobile components for various automobile OEM. The Company also provides anchoring solutions along with supply of wire ropes for applications in offshore oilfields. The Company has a total of six plants at different manufacturing locations around the globe and has a strong marketing and distribution network in India and abroad.

Straight Bar & Wire Mill division is an extended production unit of Usha Martin Limited (UML) is the flagship company of Usha Martin Group. UML is the largest manufacturer of wire ropes in India and along its, subsidiaries (hereinafter collectively referred to as 'Usha Martin'), having market presence in USA, Europe, Middle East and South East Asian countries.

Straight Bar & Wire Mill Division having round Bar, Flat, RCS & Hex rolling capacity from 25 mm to 70 Dia at Adityapur Industrial Area, Village & Tehsil Gamharia, District Saraikela—Kharsawan, Jamshedpur (Jharkhand). The JSPCB has issued CTO to this unit vide letter nopc/jsr/air/u-03/02/g-2558 Dated 28th December, 2012.

DETAILS OF THE PROJECT S. No.	Particulars	Details
1.	Nature of the Project	Expansion-cum- modernization of capacity of existing Bar Mill from 105



			MT/day to 425MT/day(1.2	
			LT/annum name plate capacity)	
2.	Total Cost of	the	15 Cr	
	expansion/modernization			
	project			
3.	Cost of EMP			
			a) 3 Cr. – Capital Cost	
			b) 0.5 Cr – Recurring Cost	
4.	Total Plot Area		8 Acre	
5.	Greenbelt Area		0.250 Acre	
6.	Project Location		Adityapur Industrial Area.	
A. Village		Bara Gamharia		
	3. Tehsil		Gamharia	
C. District		Saraikela- Kharsawan		
D. State		Jharkhand		
7.	77.75	Climatological Data of Study Period –		
A. Temperature		Max. – 47 °C		
B. Relative Humidity		87%		
C. Mean Annual Rainfall	Avg. 1100		mm	
8.	Nearest Railway Station (Gamharia (2 km, SE)	
9.	Nearest Highway		NH-33 (10 km, N)	
10.	Nearest Airport		Jamshedpur (16 km, E)	
11.	Protected forest		2.5 km, NE	
Wildlife Sanctuary	None within 10		10 KM radius	
12.	Nearest Densely .		Jamshedpur (13.0 km, E)	
10	Populated Area			
13.	Nearby Water Bodies			
			3 Subarnarekha River(5.5 km,	
			NE)	
			4 Kharkai River (5 km, SE)	
			5 Sanjai Nadi (4.5 km, SW)	
			6 Sitarampur Reservoir (2.5	
			km, SSE)	
14.	Soil Type		Silty loam	
15.	Seismic Zone		Zone II	

SEIAA, Jharkhand has approved the ToRs suggested by SEAC in its meeting held on 04.09.2015.

After detailed deliberations, the SEAC prescribed following ToRs for undertaking detailed EIA/EMP study:

- 1 Executive summary of the project.
- 2 Photographs of the existing and proposed plant area.
- 3 Details of Environmental Clearance in case obtained earlier and all other statutory clearances obtained and their compliance of the conditions.



- 4 A certified report of the status of compliance of the conditions stipulated in the environmental clearance and Consent to Operate for the existing units of the project from JSPCB.
- 5 Recent monitoring report which shall include data on AAQ, stack emission data, water quality, solid waste etc. shall be submitted.
- 6 Has the unit received any notice under the Section 5 of Environment (Protection) Act, 1986 or relevant Sections of Air and Water Acts? If so, compliance to the notice(s).

7 Site details:

- I. Location of the project site covering Village, Taluka / Tehsil, Distict and State on Indian map of 1:1000,000 scale.
- II. A toposheet of the study area of radius of 10 km and site location on 1:50,000/1:25,000 scale on an A3 / A2 sheet.
- III. Co-ordinates (lat-long) of all four corners of the site.
- IV. Google map-Earth downloaded of the project site.
- V. A map showing environmental sensitivity (land use / land cover, water bodies, reserved forests, wildlife sanctuaries, national parks, tiger reserve etc.) and form critically / severely polluted area (s) and Eco-sensitive Areas within 10 km radius of the project site vis-à-vis shortest (aerial) distance from the project. If the project is located within 10 km of CPAs / severely polluted Areas, confirm whether moratorium has been imposed on the area.
- VI. Layout maps indicating existing unit as well as proposed unit indicating storage area, plant area, greenbelt area, utilities etc. In addition, if located within an Industrial area / Estate / Complex, layout of Industrial Area.
- VII. Photographs of the proposed and existing (if applicable) plant site, if existing, in addition to site map, provide photographs of plantation / greenbelt in the existing project. If fresh EC application, photographs.
- 8 Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies human settlements and other ecological features should be indicated. Land plan of the lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, change of land fuse should be given.
- 9 Details and classification of total land (identified and acquired) should be included. Necessary documents indicating acquisition of land should be included.
- 10 Coordinates of the plant site with topo sheet co-ordinates should also be included.
- 11 A list of industries within 10 km radius of the plant area.
- 12 Residential colony if any should be located in upwind direction.
- 13 Action plan for the green belt development plan in 33 % area should be included. The species selected should be able to thrive on low nutrient soil. They should be able to adapt to local conditions and should be resistant to drought and extreme temperatures. PP should take up this activity immediately (since land has already been procured) and the details of



- plantation done should be given in EIA Report. The details of plantation already done should be given.
- 14 Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife corridors, Tiger/Elephant reserves (existing as well as proposed), if any, within 10 km of the project should be clearly indicated. Necessary clearance, if any, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above should be obtained from the State Wildlife Department/ Chief Wildlife Warden under the Wildlife (Protection) Act, 1972 and copy furnished.
- 15 A detailed biological study for the study area [core zone and buffer zone (10 km radius of the periphery of the project) shall be carried out. Details of flora and fauna, duly authenticated, separately for core and buffer zone should be furnished based on field survey clearly indicating the Schedule of the fauna present. In case of any scheduled-I fauna found in the study area, the necessary plan for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.
- 16 At least 5 % of the total cost of the project should be earmarked towards the Enterprise Social Commitment based on Public Hearing proceedings and item-wise details along with time bound action plan should be included. Socio-economic development activities need to be elaborated upon.
- 17 Total capital cost and recurring cost/annum for environmental pollution control measures should also be included.
- 18 Any litigation pending against the project and / or any direction / order passed by any Court of Law against the project, if so, details thereof.
- 19 Monitoring shall be carried out over a period of one season (other than monsoon).

Process Related:

- 20 A line diagram / flow sheet for the process including existing units and EMP shall be submitted. Also details of technology may be included.
- 21 Project site layout plan showing raw materials and other storage plans, bore well or water storage, aquifers (within 1 km.) green areas, water bodies and rivers/drainage passing through the project site should be included.
- 22 List of raw material required and source along with mode of transportation should be included. All the trucks for raw material and finished product transportation must be "Environmentally Compliant".
- 23 Mass balance for the raw material and products should be included.
- 24 Studies for slurry, sludge material mill scale and solid waste generated should also be included, if the raw materials used has trace elements and a management plan. Manufacturing process details for all the process units should be included.
- 25 Possibility of installation of WHRB will be explored and details included.
- 26 Energy balance data for all the components should be incorporated.

Air Environment

27 Site-specific micro-meteorological data like temperature, relative humidity, hourly wind speed and direction, rainfall etc.

- 28 Ambient air quality at monitoring should be carried out adequately as per NAAQS 2009. Ambient air quality monitoring along with cumulative impact should be included for the day (24 hrs) for maximum GLC along with following:
 - i. Emissions (g/second) with and without the air pollution control measures.
 - ii. Meteorological inputs (wind speed, m/s), wind direction, ambient air temperature, cloud cover, relative humidity & mixing height using SODAR on hourly basis.
 - iii. Model input options for terrain, plume rise, deposition etc.
 - iv. Print-out of model input and output on hourly and daily average basis.
 - v. A graph of daily averaged concentration (MGLC scenario) with downwind distance at every 500 m interval covering the exact location of GLC.
 - vi. Details of air pollution control methods used with percentage efficiency that are used for emission rate estimation with respect to each pollutant.
 - vii. Applicable air quality standards as per LULC covered in the study area and % contribution of the proposed plant to the applicable Air quality standard. In case of expansion project, the contribution should be inclusive of both existing and expanded capacity.
 - viii. No. I-VII are to be repeated for fugitive emissions and any other source type relevant and used for industry.
 - ix. Graphs of monthly average daily concentration with down-wind distance.
 - x. Specify when and where the ambient air quality standards are exceeded either due to the proposed plant alone or when the plant contribution is added to the background air quality.
- 29 Fugitive dust protection or dust reduction technology for workers within 30 m of the plant active areas.
- 30 Determination of atmospheric inversion level at the project site and assessment of ground level concentration of pollutants from the stack emission based on site-specific meteorological features.
- 31 Air pollution control measures during charging of raw materials and during operation of the furnace shall be detailed.
- 32 Air Quality Impact Predication based on CPCB/MoEF approved model(s) shall be presented.
- 33 Impact of the transport of the raw materials and end products on the surrounding environment should be assessed and provided.
- 34 An action plan to control and monitor secondary fugitive emissions from all the sources as per the latest permissible limits issued by the Ministry vide G.S.R. 414(E) dated 30th May, 2008.

Water Environment

- 35 Presence of aquifer/aquifers within 1 km of the project boundaries and management plan for recharging the aquifer should be included.
- 36 If surface water is used from river, rainfall, discharge rate, quantity, drainage and distance from project site should also be included.

- 37 Ground water analysis at 8 locations with bore well data, litho-logs, drawdown and recovery tests to quantify the area and volume of aquifer and its management.
- 38 'Permission' for the drawl of water should be obtained from concerned authorities. Water balance data must be provided.
- 39 Action plan for rainwater harvesting measures should be prepared and the same should be got duly approved from Ground Water Directorate, Government of Jharkhand / Central Ground Water Board / Authority.
- 40 Surface water quality at 8 locations must be ascertained.
- 41 If the site is within 10 km radius of any major river, Flood Hazard Zonation Mapping is required at 1:5000 to 1;10,000 scale indicating the peak and lean river discharge as well as flood occurrence frequency.
- 42 Pre-treatment of raw water, treatment plant for waste water should be described in detail. Design specifications may be included.

Solid Waste Management

- 1 Action plan for solid/hazardous waste generation, storage, utilization and disposal particularly char/slag/tailings from all the sources should also be included.
- 2 Identification and details of land to be used for all type of char/slag/tailings disposal in the secured land fill as per CPCB guidelines should be included.
- 3 End use of solid waste/slag and its composition should be covered.
- 4 Toxicity should be assessed following standard leaching procedures particularly the Toxicity Characteristic Leachate Procedure (TCLP) test for the slag.

Safety and Health

- 43 Risk/Disaster Management needs to be provided.
- 44 Occupational Health:
 - a) Details of existing Occupational & Safety Hazards. What are the exposure levels of above mentioned hazards and whether they are within Permissible Exposure level (PEL). If these are not within PEL, what measures the company has adopted to keep them within PEL so that health of the workers can be preserved,
 - b) Details of exposure specific health status evaluation of worker. If the workers' health is being evaluated by pre designed format, chest x rays, Audiometry, Spirometry, Vision testing (Far & Near vision, colour vision and any other ocular defect) ECG, during pre placement and periodical examinations give the details of the same. Details regarding last month analysed data of abovementioned parameters as per age, sex, duration of exposure and department wise.
 - c) Annual report of health status of workers with special reference to Occupational Health and Safety.
 - d) Plan and fund allocation to ensure the occupational health & safety of all contract and sub-contract workers.

45 Corporate Environment Policy

I. Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.

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- II. Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms/ conditions? If so, it may be detailed in the EIA.
- III. What is the hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the environmental clearance conditions? Details of this system may be given.
- IV. Does the company have system of reporting of non compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism should be detailed in the EIA report.

46 Public hearing.

The following general points should be noted:

- I. Properly indexed, page numbered.
- II. Period/date of data collection should be clearly indicated. (non-monsoon)
- III. Authenticated English translation of all material in Regional languages should be provided.
- IV. The letter/application for environmental clearance should quote the SEIAA, Jharkhand file No. and also attach a copy of the letter.
- V. Site related monitoring shall be carried out for 3 months in one season (non monsoon).
- VI. The index of the final EIA-EMP report must indicate the specific chapter and page no. of the EIA-EMP Report
- VII. While preparing the EIA report, the instructions for the proponents and instructions for the consultants issued by MoEF vide O.M. No. J-11013/41/2006-IA.1I (I) dated 4th August, 2009, which are available on the website of this Ministry should also be followed.
- VIII. The consultants involved in the preparation of EIA / EMP report after accreditation with Quality Council of India (QCI) / National Accreditation Board of Education and Training (NABET) would need to include a certificate in this regard in the EIA /EMP reports prepared by them and data provided by other organization/Laboratories including their status of approvals etc.

It was decided that 'TORs' prescribed by the State level Environment Impact Assessment Authority (SEIAA) should be considered for preparation of EIA / EMP report for the above mentioned project in addition to all the relevant information as per the 'Generic Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006. Where the documents provided are in a language other than English, an English translation should be provided. The final EIA report shall be submitted to the SEIAA for obtaining environmental clearance.

The TORs prescribed shall be valid for a period of two years for submission of the EIA/EMP Report as per OM F No. J11013/41/2006-IA-II(I) part dated 22nd August 2014.

Sd/Member Secretary
State Level Environment Impact
Assessment Authority, Jharkhand.

Memo No. EC/SEIAA / 2015-16 / 872/ 2015/ $\lfloor \le 9 \leq$

Dated: 09-09-2015

Copy to:

1. Member Secretary, Jharkhand State Pollution Control Board, Ranchi.

2. Secretary, SEAC, Jharkhand, Ranchi for information and necessary action.

Member Secretary

State Level Environment Impact Assessment Authority, Jharkhand.