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POST



Steel Authority of India Limited
Rourkela Steel Plant
Rourkela – 769011

Fax : 0661-2510183

Ref. No.: 691/EE/59/166

Date : 10/11/2023.

Dear Sir,

Sub : Implementation Status of Env. Clearance Conditions issued to
Post Graduate Institute and Super Speciality Hospital, Rourkela.
Ref. : EC dated 25/02/2019.

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The implementation status of the various EC Conditions accorded to Rourkela Steel Plant (RSP) for its Post Graduate Institute and Super Speciality Hospital, Rourkela for the period of April - September, 2023 is enclosed as Annexure-5 for kind perusal.

With warm regards,

Yours faithfully,
For Rourkela Steel Plant,

(P C Dash)
General Manager I/c
Environmental Engg. Department

Note : Soft copy mailed to roez.bsr-mef@nic.in

To,

The Dy. Director General of Forests (C),
Integrated Regional Office,
Ministry of Environment Forests & Climate Change,
A/3, Chandrasekharapur,
Bhubaneswar. – 751023.

Environmental Engg. Department, 1st Floor of OHSC Building, Rourkela Steel Plant, Rourkela

Phone : 0661-2447258 Fax : 0661-2510183

Regd. Office : Ispat Bhawan, Lodi Road, New Delhi – 110 003

Implementation Status of EC Conditions

**Contact Person : Dr. B.K Hota, Executive Director (M&HS) Phone : 0661-2642703 ;
8895504900
(Apr'2023 – Sept'2023)**

A. Important Environment Clearance Conditions & Actions required :

EC Condition No.	EC Condition	Implementation Status of Action Plan
2(vii)	Rooftop rainwater of buildings will be collected in 4 RWH tanks of total 43.52 KLD capacity for harvesting after filtration.	4 nos. of RWH pits have been provided in the project.
I(vi)	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department shall be obtained, as applicable, by project proponents from the respective competent authorities.	<ul style="list-style-type: none"> • Approval for storage of diesel from Chief Controller of Explosive has been obtained. • Fire clearance from State Fire Department has been obtained. • Height clearance from Civil Aviation Deptt. has been obtained.
II(i)	Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.	Dust Mitigation measures have been followed as per submitted EMP (Environment Management Plan) by Water sprinklers for dust suppression wherever required, however, the construction work has now been over.
II(ii)	A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.	The construction work has now over.
II(iii)	The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5) covering upwind and downwind directions during the construction period.	The construction work has now over. Ambient air quality monitoring test carried out in Aug '2023. Results are within norm . Report enclosed as Annexure-I.
II(iv to xii)	<ul style="list-style-type: none"> • Diesel power generating sets proposed s source of backup power should be of enclosed type and confirm to rules made under the Env. Protection act 1986 • Construction site shall be adequately barricaded before construction begins, Dust smoke and other air pollution prevention measures shall be provided for the building as well as the site. • Sand murrum loose soil cement stored on site shall be covered adequately so as to prevent dust pollution. • Wet jet shall be provided for grinding and stone cutting • Unpaved surface and loose soil shall be adequately sprinkled with water to suppress dust. 	<ul style="list-style-type: none"> • Diesel power generator has not used in the project. Electrical power from own source of SAIL was used at the time of construction. • Construction site was fully barricaded in 6M height at the time of construction stage. • The same has been implemented at site. • The same has been implemented at site. • The same has been implemented at site. • Being practiced at the construction site.

	<ul style="list-style-type: none"> All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. The diesel generator sets to be used during construction phase shall be low sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise emission standards. The gaseous emission from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. For indoor air quality the ventilation provisions as national Building code of India 	<ul style="list-style-type: none"> Diesel power generator has not been used in the project. Electrical power from own source of SAIL was used at the time of construction. Diesel power generator has not been used in the project. Electrical power from own source of SAIL was used at the time of construction. Indoor air quality the ventilation for building has been designed as per NBC only.
III(iv)	The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.	Metering system has been provided in the water circuit including in Rain Water Harvesting System. The data will be recorded and reported to MoEFCC once in 6 months.
III(vi – x)		All the points have been implemented in the project as per design.
III (xi)	As proposed 11 nos. of rain water harvesting recharge pits shall be provided for rain water harvesting after filtration as per CGWB guidelines.	All have been executed.
III(xii - xvi)	<ul style="list-style-type: none"> Rain water harvesting plan needs to be designed All recharge should be limited to shallow aquifer No ground water shall be used during construction phase of the project A ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. The quantity of fresh water usage water recycling and rain water harvesting shall be measured and recorded to monitor the water balance as projected by project proponent. 	All points have been implemented in the project.
III (xvii)	Sewage shall be treated in the STP based on MBBR Technology with tertiary treatment i.e. Ultra Filtration. The treated effluent from STP shall be recycled/re-used for flushing, gardening and HVAC. Excess treated water shall be	STP of 200 KLD based on MBBR technology have been executed at the project.

	discharged to municipal drain.	
III (xix)	The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry before the project is commissioned for operation.	The installation of STP has been certified by an independent expert and the report has been submitted to Ministry.
III (xxii)	The project proponents would commission a third party study on the implementation of conditions related to quality and quantity of recycle and reuse of treated water, efficiency of treatment systems, quality of treated water being supplied for flushing (specially the bacterial counts), comparative bacteriological studies from toilet se is using recycled treated waters.	A third party study will be submitted in due course for STP and ETP.
IV (i to iii)	Noise monitoring & Prevention	Noise Monitoring carried out in the month of August' 2022. Report is enclosed.
V (i to iv)	Energy conservation measures <ul style="list-style-type: none"> Compliance with the Energy Conservation Building Code of Bureau of Energy Efficiency shall be ensured. Outdoor and common area lighting shall be LED Concept passive solar design that minimize energy consumption in building shall be incorporated in the building design. 	The work has been executed as per the requirement.
V (v)	Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level/ local building bye-laws requirement, whichever is higher	A solar Power plant of capacity of 30 KVA which is 1 % of Electricity consumed has been installed.
V (vi)	Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible/	25 % of the hot water demand will be generated by using solar power.
VI (i to xi)	Waste management <ul style="list-style-type: none"> Provision of organic waste compost/vermin compost/organic waste converter. Fly Ash bricks, hollow bricks & other environment friendly materials are to be used at least 20% of total requirement. Only Fly Ash bricks are to be used for construction. 	<ul style="list-style-type: none"> Provision of organic waste composter has been installed in the project. Eco friendly materials like AAC block, Mineral fiber tile, PPC cement, Granite stone etc. have been used in the construction of project.
VII	Green cover <ul style="list-style-type: none"> Total green cover to be developed - 14,209.51 sqm (29% of total plot area). 	<ul style="list-style-type: none"> Complied.

	<ul style="list-style-type: none"> 10 Trees are to be planted against each tree cut. 	<ul style="list-style-type: none"> At present 1600 Trees have been planted in the Campus of IGH and near to the project on road side.
VIII	<p>Transport</p> <ul style="list-style-type: none"> Vehicles hired for bringing construction material to the site should be in good condition. Traffic management Plan as submitted shall be implemented in letter and spirit. 	<ul style="list-style-type: none"> All the points have been strictly followed.
IX (i)	All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.	<ul style="list-style-type: none"> PPE s are provided to all the workers and are used by them during construction, loading unloading activity.
IX (iii)	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HI RA) and Disaster Management Plan shall be implemented.	<ul style="list-style-type: none"> Emergency prepared plan has been prepared and has been implemented.
IX(iv to vi)	<ul style="list-style-type: none"> 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 structure to be removed after completion of the project. Occupational health surveillance of the workers shall be done on regular basis. A first aid room shall be provided in the project both during construction and operation of the project 	<ul style="list-style-type: none"> All the points have been addressed.
X (i)	<p>Corporate Environment Responsibility: As per the Ministry's Office Memorandum F.No. 22-65/2017-IA.III dated 1st May 2018, and proposed by the project proponent, an amount of Rs. 4.422 Crore@1.50% of project Cost shall be earmarked under Corporate Environment Responsibility (CER) for the activities such as training centre for woman-sewing stitching etc, drinking water facility Dispensary and other medical facilities, education and sport and sanitation etc. The activities proposed under CER shall be restricted to the affected area around the project. The entire activities proposed under the CER shall be treated as project and shall be monitored. The monitoring report shall be submitted to the regional office as a part of half yearly compliance report, and to the District Collector. It should be posted on the website of the project proponent.</p>	<ul style="list-style-type: none"> CER (Corporate Environment Responsibility) works have been identified and the same have been executed to meet the requirement. Details of CER activities:- <ol style="list-style-type: none"> Training to local girl/ boys for Sewing/ Stitching. Drinking water facilities in peripheral villages by providing bore wells by Solar driven pumps. Training on Horticulture, Land scalping, rain water to local girls and boys & Nature Interpretation Centre at IG Park. Toilets block construction at peripheral villagers at 2 locations. Transit House for attendants of patients admitted to hospital from peripheral villages. Modification of Hockey Academy players Hostel Mobile Dispensary Van for benefit of peripheral villages. Renovation/ Modification of buildings of Hostel for Medical Students Hospital.

		9. Connecting Road to Super Specialty Hospital for the patients of peripheral villages.
X(iv)	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.	Complied
XI(i)	The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEFCC/SEIAA website where it is displayed	<ul style="list-style-type: none"> • Paper advt. was done on 06.03.2019.
XI(ii)	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	<ul style="list-style-type: none"> • Complied
XI(iii – v)	<ul style="list-style-type: none"> • The project proponent shall upload the status of compliance of the stipulated environmental clearance conditions including results of monitoring data on their website and update the same on half yearly basis • The project proponent shall submit six monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environmental Forest and Climate Change at Environmental clearance portal • The project proponent shall submit the environmental statement for each financial year in the Form-V to the concerned State pollution control board as prescribed under the Env. Protection Rules, 1986 as amended subsequently and put on the website of the company. 	<ul style="list-style-type: none"> • Have been strictly adhered.
XI (vi)	The project proponent 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, commencing the land development work and start of production operation by the project.	<ul style="list-style-type: none"> • Adhered
XI(xiii)	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional	<ul style="list-style-type: none"> • Will be strictly adhered

	Office by furnishing the requisite data / information/monitoring reports.	
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Annexure-I

Ambient Air Quality Monitoring Report
Date of Monitoring : 07.08.2023

LOCATION	Noise (Day/Night) dB(A)	PM2.5	PM10	SO2	NOx	CO	Pb	NH ₃	Arsenic	Ozone	Nickel	Benzene	BaP
Near Service Block	46.8/37.2	21	33	8.1	21.5.0	382	<0.02	9.1	<0.01	9.2	7.2	<0.5	<0.1
Near Hospital Block	46.1/38.0	20	28	7.2	20.60	344	<0.02	9.2	<0.01	9.2	7.2	<0.5	<0.1
Norms	Silent Zone 50/40 dB(A)	60 µg/m ³	100 µg/m ³	80 µg/m ³	80 µg/m ³	4000 µg/m ³	1.0 µg/m ³	400 µg/m ³	6 ng/m ³	100 ng/m ³	20 ng/m ³	5000 ng/m ³	1.0 ng/m ³