F. No. J-11011/927/2008-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: 23rd February, 2017

To

M/s Hindalco Industries Ltd.,

Village(s) Lakhigam and Dahej, Tehsil Vagra, District Bharuch Gujarat.

Subject:

Expansion of Continuous Cast Copper Rod Plant (CCR) capacity from 2,40,000 TPA to 4,84,000 TPA by setting up of a new CCR plant of 2,44,000 TPA capacity by M/s Hindalco Industries Ltd., located at Village(s) Lakhigam and Dahej, Tehsil Vagra, District Bharuch Gujarat. – Environmental Clearance regarding.

Sir,

This has reference to your online application No. IA/GJ/IND/58215/2015 dated 8th August, 2015 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-11011/927/2008-IA.II(I) dated 8th January, 2016 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 is appraised at the Central level.

- 2.0 The project of M/s Hindalco Industries Limited, Unit of Birla Copper located at Village Dahej-Lakhigam, Tehsil Vagra, District Bharuch, Gujarat is for enhancement of Continuous Cast Copper Rod Plant capacity from 2, 40,000 TPA to 4, 84,000 TPA by setting up of a new CCR plant of 2,44,000 TPA capacity. The existing plant was accorded environmental clearance by the Mininstry letter No. J-11011/927/2008-IA.II(I) dated 11th February, 2009. The total plot area is 327ha, which is in the possession of the proponent and land required for the expansion is 0.468 ha. The unit is located in the GIDC industrial area and no agriculture land, grazing land, Government land or forest land is involved. Out of the total land requirement of 327 ha, an area of 26.532 ha is utility area, wherein the expansion would be carried out. The topography of the area is flat and reported to lies between 21º41'50.55" to 21º42'56.89" N Latitude and 72º32'10.48" to 72º33'05.92" E Longitude, at an elevation of 6.4 m AMSL. No national park/wildlife sanctuary/biosphere reserve/tiger reserve/elephant reserve etc. reported to be located within 10 km of the project area. The area also does not report to corridor for Schedule-I fauna.
- 3.0 The targeted production capacity of the Continuous Cast Copper Rod is 4,84,000 TPA. The ore for the plant would be procured from domestically and/ or imported. The water requirement of the project is estimated to be 408 m³/day, and the same will be sourced from the GIDC water supply. The

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power requirement of the project is estimated as 25 MW which will be sourced from the existing Captive Power Plants. No R&R is involved.

- 4.0 It has been reported that no waste will be generated due to the project. Out of the total project area of 327 ha, an area of 117.15 ha including an area of 0.15 ha for the proposed expansion will be developed as green belt. The Public hearing of the project is exempted, as it is an expansion case in industrial area/estate.
- 5.0 The capital cost of the project is Rs 240 Crores and the capital cost for environmental protection measures is proposed as Rs 20 Lakhs. The annual recurring cost towards the environmental protection measures is proposed as Rs 05 Lakhs. The proponent has mentioned that there is no court case to the project or related activity.
- 6.0 The proposal was considered during the 10th meeting of Expert Appraisal Committee (EAC) (Industry-I) held on 29th 31st August, 2016 and 12th meeting held on 27th -28th October, 2016 and the EAC recommended the project for Environmental Clearance and stipulated Specific Conditions along with other environmental conditions while considering for accord of environmental clearance.
- 7.0 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 proposed expansion of Continuous Cast Copper Rod Plant capacity from (2,40,000 TPA to 4,84,000 TPA) by setting up of a new CCR plant of 2,44,000 TPA capacity by M/s Hindalco Industries 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 CONDITIONS:

- i. The project proponent shall install 24x7 automatic air monitoring devices (Continuous Emission Monitoring System) to monitor air emissions, as provided by the CPCB and submit report to Ministry and its Regional Office.
- ii. 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.
- iii. 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.
- iv. The PP shall install scrubber or upgrade the existing scrubbers within one year to reduce SOx emission which will be verified by the Regional Office.
- v. 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.

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- vi. 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.
- vii. 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. There should also be an arrangement for sufficient drinking water at site to prevent dehydration etc
- viii. The internal roads should be designed such that the fire tenders should reach upto 10 meters of any unit.
- ix. 'Zero' effluent discharge shall be strictly followed and no wastewater shall be discharged outside the premises.
- x. 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.
- xi. 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.
- xii. A time bound action plan shall be submitted for reduction in solid waste, its proper utilization and disposal.
- xiii. Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 1999 and subsequent amendment in 2003, 2009 and 2016. 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.
- xiv. 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.
- xv. Green belt shall be developed all along the periphery of the plant boundary in 33 % of plant area. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.

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- At least 2.5% of the total cost of the project shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues, 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. An amount of at least Rs. 4.25 crores will be set aside by the Project Proponent with a detailed plan for the ESC activities to be carried out in next 4 years.
- xvii. 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. The plan so prepared shall be based on SMART (Specific, Measurable, Achievable, Relevant and Time bound) concept. The expenditure should be aimed at sustainable development and direct free distribution and temporary relief should not be included.
- The Company shall submit within three months their policy towards Corporate Environment Responsibility which shall inter-alia address (i) Standard operating process/procedure to being 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.
- xix. 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.
- xx. The project proponent shall provide for LED lights in their offices and residential areas.
- 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 Gujrat 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).

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- 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 Bhopal 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 Bhopal. 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 Bhopal. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM₁₀, SO₂, NOx (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.

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- 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 Bhopal / 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 Bhopal 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 Bhopal.
- 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.
- 8.0 The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- 9.0 The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- 10.0 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 and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.

(Sharath Kumar Pallerla) Scientist 'F'

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Copy to:-

1. The Secretary, Department of Environment, Government of Gujrat.

2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi, 110032.

3. The Chairman, Gujarat State Pollution Control Board, 4, Paryavaran Bhavan, Opp. Bij Nigam, CHH

Road, Sector 10A, Sector 10, Gandhinagar, Gujarat 382010

- 4. The Additional Principal Chief Conservator of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office (WZ), E-5, Kendriya Paryavaran Bhawan, E-5 Arera Colony, Link Road-3, Ravishankar Nagar, Bhopal 462016.
- 5. Guard File / Record File/Monitoring file.

(Sharath Kumar Pallerla) Scientist 'F'