



November 27, 2019

To,
The Director
Govt. of India, MoEF
Regional Office (Central)
Kendriya Bhawan, 5th Floor,
Sector – H, Aliganj
LUCKNOW – 226 024

**Sub: Expansion of Smelter and Alumina Plant Renukoot, Distt. Sonebhadra, U.P.
of M/s Hindalco Industries Limited – Environment Clearance Reg.**

Dear Sir,

Please find herewith-attached point wise compliance of conditions stated in our earlier environmental clearances granted by Ministry along with six monthly progress report. Also find soft copy of compliance report environmental clearance.

1. Compliance letter of Env. Clearance granted vide letter J-13012/21/2003-1A.II (T) dt. June 8, 2004. Please see Annexure – I.
2. Compliance letter of Env. Clearance granted vide letter J-111011/929/2008-1A.II (I) dt. December 2, 2011. Please see attached Annexure – II.
3. Our Consent under Water (Prevention & Control of Pollution) Act 1974 which is valid till December 31, 2019.
4. Our Consent under Air (Prevention & Control of Pollution) Act 1981 which is valid till December 31, 2019.
5. Please find attached Copy of Risk Held Cover Letter Public Liability Insurance Policy which is valid till April 30, 2020. Please see attached Annexure – III.
6. Copy of Air & Water progress report for last Quarter April 2019 – June 2019 & July 2019 – September 2019 as submitted to U.P. Pollution Control Board. Please see attached Annexure – IV
7. Work Zone monitoring data for the period April 2019 to September 2019. Please see attached Annexure –V
8. We have Authorization under Rule 5 of Hazardous and Other Wastes (Management, Handling Transboundry Movement) Rules, 2016, which is valid till June 29, 2021.

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HINDALCO INDUSTRIES LIMITED
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E mail hindalco@adityabirla.com
Corporate Identity No. L27020MH1958PLC011238



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9. Noise Monitoring done by us on quarterly basis. The Monitoring result for the period April 2019 – June 2019 and July 2019 – September 2019. Please see attached Annexure – VI.
10. Fly Ash Utilization details for the period April 2019 to September 2019. Please see attached Annexure – VII.

We hope you will please find the above in order.

Thanking you,

Yours faithfully,
FOR HINDALCO INDUSTRIES LIMITED

Mukesh Mittal
V.P. (Environment and Safety)

cc: SEE & Incharge, CPCB, Lucknow
Member Secretary, UPPCB, Lucknow
R.O. UPPCB, Sonbhadra.

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Corporate Identity No. L27020MH1958PLC011238

Project Code: UP-132-333-2012

Name of the Project : Modernization and expansion of existing Alumina Refinery (660 KTPA to 900 KTPA) and Smelter Plant (356 KTPA to 472 KTPA) at Renukoot, District Sonbhadra in Uttar Pradesh.

Clearance Letter No. : J-11011/929/2008 – IA – II (I)

Period of Compliance Report : April ' 2019 to September ' 2019

A. SPECIFIC CONDITIONS:

Sl. No	Description	Compliance Status
1.i.	The gaseous emissions (PM ₁₀ , SO ₂ , NO _x , PAH, HC, VOCs and Fluoride) from various process units shall conform to the standards prescribed by the concerned authorities from time to time. The UPPCB 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 levels shall go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. The particulate emissions from the bake oven plant shall not exceed 50 mg/Nm ³ .	Compliance reports are regularly submitted to MoEF /CPCB/SPCB. Complied with.
ii.	The poly-aromatic hydrocarbons (PAH) from the carbon plant (anode bake oven) shall not exceed 2 mg/Nm ³ . The data on PAH shall be monitored quarterly and report submitted regularly to the Ministry / Regional Office at Lucknow and UPPCB.	Complied with. Monitoring for PAH monitoring is being done by approved laboratory on quarterly basis. Please see attached analysis result as Annexure - IV
iii.	Fluoride consumption should be less than 10 kg/ton of Aluminium produced as specified in the CREP guidelines.	Complied with.
iv	Fugitive Fluoride emissions from the pot room and in the forage around the smelter complex shall be monitored and data submitted regularly to the Ministry's Regional Office at Lucknow and UPPCB. Further dry scrubbing system to control the emissions from the pot lines should be provided.	Fugitive emission monitoring is being done in house every month in Pot Room. Please see attached Annexure – V. Forage Fluoride monitoring is being done by third party once in a year. The sampling and analysis will be done in the quarter of October 2019 – December 2019.
v.	The proponent shall upload the status of compliance of the stipulated environmental clearance conditions, including monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and SPCB. The criteria pollutant namely; PM ₁₀ , SO ₂ , NO _x (Ambient levels as well as stack emissions) or critical sectoral parameters indicated for the project shall be monitored and displayed at the convenient location near the main gate of the company in the public domain.	Complied with.

Sl. No	Description	Compliance Status
vi.	Electrostatic precipitator(s) shall be provided to kiln and boiler stacks to control gaseous emissions within 50 mg/Nm ³ . The height of the stacks shall be as per the CPCB guidelines. Gaseous emissions shall be regularly monitored and records maintained and reports submitted to this Ministry including its Regional Office at Lucknow / CPCB and UPCEB six monthly.	The monitoring is being done by approved laboratory on quarterly basis. The report is attached as Annexure – IV.
vii.	Total water requirement after expansion from downstream of Rihand River shall not exceed 45,000 m ³ /day. Oily wastewater shall be treated in API separator and routed to reclamation pond for recycling. All the treated wastewater shall be treated in ETP and recycled. Closed circuit system with zero discharge concept shall be adopted to control water pollution. No wastewater shall be discharged outside the plant. The domestic wastewater shall be treated in the sewage treatment plant and treated wastewater conforming to the standards for land application shall be reused for green belt development within the plant premises.	We have adopted / implemented various schemes to reduce fresh water consumption. At present fresh water consumption is approx 30942 Kl / day. The treated effluent water and domestic water meets the prescribed standards and reused in various purpose. We have adopted systematic approached for achieving ZLD status at Renukoot.
viii.	Red mud shall be stored in the red mud pond only designed as per the CPCB guidelines with proper leachate collection system and ground water all around the red mud disposal area shall be monitored regularly and report submitted to the UPCEB/CPCB and Regional Office of the Ministry at Lucknow. Efforts shall also be made to find out productive uses of red mud in brick and ceramic products etc. proper care shall be taken to ensure no run off or seepage from the red mud disposal site to natural drainage. Sewage sludge shall be used as manure within the premises.	Complied with. We stored red mud as 65-70% solids as per CPCB guidelines surrounded by earthen dam. Study for using red mud for production of clinker in cement industry has been completed in consultation with National Council for cement and Building Material Ballabgarh. As the outcome of the study, we have established red mud utilization in Cement Industries, During the year 2019-20, Approx 93243 MT of red mud has been supplied to M/s Ultratech Dala, ACC Chaivassa, JP Cement Rewa, ACC Cement Kaymore, Dalmia Cement Kalyanpur and Ultratech Cement Bela. We are also in discussion with M/s ACC Lakheri, Kota Rajasthan, M/s Bela Corporation Limited, Kolkatta and M/s Century Cement for utilization of Red Mud as a substitute of laterite.
ix.	Green belt shall be developed in 33% area to mitigate the effects of fugitive emissions as per the CPCB guidelines.	We have lush greenery surrounding of plant and colony. The plantation has been done regularly through Horticulture/ CSR Dept. in nearby areas. We have planted 5094 no. of tree during this period for developing green belt.
x.	Anode butts generated from the pots shall be cleaned and recycled to the Anode Plant. The spent pot lining generated from the smelter should be properly treated in spent pot lining treatment plant to remove fluoride and cyanide and disposed off to the Cement/Steel plants and as minimum as possible to secured landfill. The location and design of the landfill site should be approved by the UPCEB as per Hazardous Waste (Management, Handling & Transboundary Movement) Rules 2008. Leachate collection facilities should be provided to the secured landfill facility (SLF). The dross shall be recycled in the cast house.	Complied with. Anode Butts are reused in our Plant. We have a patented process in which fluorine values are recovered from SPL and remaining carbon residue is being burnt in Boiler

Sl. No	Description	Compliance Status
xi.	Occupational Health Surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.	We have a separate OHS with a MBBS doctor for doing health check up of workers in continuous basis. Please find attached Periodical Health Check Up Status for the period of April ' 2019 to September ' 2019 as Annexure - A
xii.	The recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Aluminium sector should be strictly implemented.	We follow the recommendations of CREP.
xiii.	The company shall comply with all the commitment made during public hearing/public consultation held on 24th July, 2009.	We have taken actions on an issue which was raised during public hearing.
xiv.	At least 5% of the total cost of the project shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office at Lucknow. Implementation of such program shall be ensured accordingly in a time bound manner.	Noted. We have CSR department which is taken care of social upliftment of nearby areas. Please find attached beneficiaries details for the period of April ' 2019 to September ' 2019 as Annexure - B
xv.	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. 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.	We have provided necessary infrastructure and facilities for construction workers.
xvi.	The company shall submit within three months their policy towards Corporate Environment Responsibility which should inter-alia address (i) Standard operating process/procedure to bring 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.	Complied with.

B. GENERAL CONDITIONS:

Sl. No	Description	Compliance Status
i.	The project authorities must strictly adhere to the stipulations made by the Uttar Pradesh State Pollution Control Board and the State Government.	All statutory guidelines stated by UPCCB are well complied.
ii.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	We agree that no expansion shall be done without prior approval of MoEF.
iii.	The gaseous emission from various process units shall conform to the land/mass based standards notified by this Ministry on 19 th May, 1993 and standards prescribed from to time. The State Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location.	All emission is monitored as prescribed and it has been submitted to SPCB/CPCB/ MoEF.
iv.	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, SO2 and NOx 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 Lucknow and the SPCB / CPCB once in six months.	Complied with. The Ambient Air Monitoring & Stack emission is being done by third party on quarterly basis. Please see attached Annexure IV.
v.	Industrial wastewater shall be properly collected treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May, 1993 and 31 st December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.	We treat all wastewater in our ETP and reused within the plant for process use/Cooling Tower/ Horticulture.
vi.	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)	The noise level is maintained as per standards. In high noise area PPE's are provided to mitigate the impact.
vii.	The company shall develop surface water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	As per CGWB officials Rainwater harvesting structure is not feasible at this location.
viii.	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA / EMP and public hearing reports. 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.	We have complied all measures as recommended. A separate CSR dept is working for developing social life of nearby villages.

Sl. No	Description	Compliance Status
ix.	Requisite amount 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 and Forests as well as the State Government. An implementation scheduled for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Lucknow. The funds so provided shall not be diverted for any other purpose.	The cost for environment protection has been earmarked separately.
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.	Complied with.
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 MOEF at Lucknow. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM10, SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters, such as fluoride emission indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Complied with.
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 MOEF the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Lucknow / CPCB / SPCB shall monitor the stipulated conditions	We are regularly submitted six monthly compliance report.
xiii.	The environmental statement for each financial year ending 31 st 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 alongwith the status of compliance of environmental conditions and shall also be sent to the respective Regional Office of the MOEF at Lucknow by e-mail.	The Environment statement for each financial year is regularly submitted to SPCB as prescribed.

Sl. No	Description	Compliance Status
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 and Forests 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 Lucknow.	Complied with.
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.	Noted.
10.	The Ministry may revoke or suspended the clearance, if implementation of any of the above conditions is not satisfactory.	Noted.
11.	The ministry reserves the right to stipulated additional conditions if found necessary. The company in a time bound manner shall implemented these conditions.	Noted.
12.	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 Waste (Management, Handling and Transboundary Movement) Rules, 2021 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.	Noted.

Project Code: UP-28-170-04

Name of the Project : 40 MW Co – Generation Power Plant of
M/s. Hindalco Industries Ltd., Renukoot
Clearance Letter No. : J-13012/21/2003- IA. II (T) Dt. 08.06.2004
Period of Compliance Report : April ' 2019 to September ' 2019

General Conditions:

Sr. No.	Conditions	Compliance Status
2.	The environmental clearance for the above project is hereby accorded subject to implementation of following terms and conditions:	
I)	All the conditions stipulated by Uttar Pradesh Pollution Control Board vide their letter No. G-22276/C-2/ NOC/ 3257/2003 dt. 12/09/2003 should be strictly implemented.	Complied with.
II)	6.25 ha. Land is required and is already in possession of the project authorities. No extra land would be acquired for the plant.	No extra land had been acquired.
III)	Coal requirement is estimated a 1000 TPD having calorific value of 2950 K.Cal/kg with 41% ash content and 0.25% sulphur content. Copy of coal linkage approval from S.L.C. should be submitted immediately after receipt of the same. In case of change in calorific values, ash and sulphur contents of coal, Ministry's approval for the same has to be sought before starting the construction work of the power plant.	Complied with.
IV)	Stack height of 88 m height shall be provided with continuous online monitoring equipment. Exit velocity of 14.08 m/sec. should be maintained.	Complied with.
V)	High efficiency Electrostatic Precipitator (ESP) having efficiency of 99.8% be installed to limit outlet SPM emission 100 mg/Nm ³ .	Complied with.
VI)	Ash generation would be 84 t/day of bottom ash and 324 t/day of fly ash. Ash generated should be used in a phased manner as per provisions of the notification on Fly Ash Utilization issued by the Ministry in September, 1999 and its subsequent amendments. By the end of 9 th year full fly ash utilization should be ensured.	129682 MT of ash had been given to various Cement Industries and other usages during April '2019 to September '2019. Please see attached Annexure -VII

Sr. No.	Conditions	Compliance Status
VII)	Water requirement should not exceed 6150 m ³ /day and this will be met through recycling of domestic and industrial effluents. There would not be any extra water withdrawal for this plant.	Complied With.
VIII)	Central Groundwater Authority/Board shall be consulted for finalization of appropriate water harvesting technology within a period of four months from the date of clearance.	As per advice of CGWB Authority, rain water-harvesting structure should not be adopted because it may enhance the condition of water logging.
IX)	Regular monitoring of water quality including heavy metals should be undertaken around ash pond and the project area to ascertain the change in the water quality, if any, due to leaching of contaminants from ash disposal area.	Ground Water monitoring is being done by certified lab once in a year. We have awarded contract to M/s Prakriti Consultant, Lucknow an approved laboratory. They will do monitoring in the quarter of October 2019 to December 2019.
X)	Noise level should be limited to 75 dB (A) and regular maintenance of equipment be undertaken. For people working in the area of generator and other high noise area, earplug should be provided.	Complied with.
XI)	Greenbelt should be developed in about 1.25 ha. around the ash dyke area and available space in the township. Tree density of 1500 – 2000 trees per ha. should be maintained.	Complied with.
XII)	Regular monitoring of the air quality should be carried out in and around the power plant and records be maintained. Periodic six monthly reports should be submitted to this Ministry.	Complied with.
XIII)	For controlling fugitive dust, regular sprinkling of water in vulnerable areas of the plant should be ensured.	Water sprinkling is being done regularly at identified areas. Complied with.
XIV)	There would be no discharge of wastewater / liquid effluent from the plant.	There is no discharge of wastewater from the plant.
XV)	All other mitigative measures shall be taken as enumerated in Chapter 5 of the EIA report.	All other mitigative measures are being taken as enumerated in Chapter 5 of the EIA report.

Sr. No.	Conditions	Compliance Status
XVI)	The project proponent should advertise at least in two local newspapers widely circulated in the region around the project, one of which should be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance and copies of clearance letters are available with the State Pollution Control Board/Committee and may also be seen at Web site of the Ministry of Environment and Forests at http://envfor.nic.in	Necessary action have been already taken.
XVII)	A separate environment monitoring cell with suitable qualified staff should be set up for implementation of the stipulated environmental safeguards.	A separate environment monitoring cell with suitable qualified staff is in place for implementation of the stipulated environmental safeguards.
XVIII)	Half yearly report on the status of implementation of the stipulated conditions and environmental safeguards should be submitted to this Ministry/ Regional Office / CPCB / SPCB.	Reports are being submitted regularly to the Ministry /Regional Office/ CPCB/ SPCB.
XIX)	Regional Office of the Ministry of Environment and Forests located at Lucknow will monitor the implementation of the stipulated conditions. Completed set of Environmental Impact Assessment Report and Environment Management Plan should be forwarded to the Regional Office for their use during monitoring.	Being monitored by Regional Office, Lucknow.
XX)	Separate funds should be allocated for implementation of environmental protection measures along with item – wise break – up. These cost should be included as part of the project cost. The funds earmarked for the environment protection measures should not be diverted for other purposes and year – wise expenditure should be reported to the Ministry.	Complied with.
XXI)	Full cooperation should be extended to Scientists/ Officers from the Ministry / Regional Office of the Ministry at Lucknow / the CPCB / the SPCB who would be monitoring the compliance of environmental status.	Full cooperation is being extended to Scientists/ Officers from the Ministry Regional Office/CPCB/SPCB during their visits.

Sr. No.	Conditions	Compliance Status
3.	The Ministry reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the Ministry.	Noted
4.	The environmental clearance accorded shall be valid for a period of 5 years for construction/operation of the power plant. In case, if the project authorities fails to do so within this stipulated period, this environmental clearance shall stand lapsed automatically.	Noted
5.	In case of any deviation or alteration in the project proposed from those submitted to this Ministry for clearance, a fresh reference should be made to the Ministry to assess the adequacy of the condition (s) imposed and to add additional environmental protection measures required, if any.	Noted
6.	The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986. Hazardous Waste (Management & Handling) Rules, 1989 and its amendments the Public Liability Insurance Act, 1991 and its amendments, the Environment Impact Assessment Notification of January, 1994 and its amendments.	Noted