



May 22, 2025

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

**Sub: Expansion of Smelter and Alumina Plant Renukoot, Distt. Sonbhadra, 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 for the period of October'2024 – March'2025 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-111011/929/2008-1A. II (I) dt. December 2, 2011. Please see attached Annexure – I.
2. Compliance letter of Env. Clearance granted vide letter J-13012/21/2003-1A. II (T) dt. June 8, 2004. Please see Annexure – II.
3. Our Consent under Water (Prevention & Control of Pollution) Act 1974 which is valid till December 31, 2029. Please see Annexure – III.
4. Our Consent under Air (Prevention & Control of Pollution) Act 1981 which is valid till December 31, 2029. Please see Annexure – III.
5. Please find attached Copy of Risk Held Cover Letter Public Liability Insurance Policy which is valid till December 4, 2025. Please see Annexure – IV.
6. Authorization under Rule 5 of Hazardous and Other Wastes (Management, Handling Transboundary Movement) Rules, 2016, vide letter no 14307/UPPCB / Sonbhadra (UPPCBRO) / HWM / Sonbhadra / 2021 dated June 04,2021 which is valid till June 04, 2026. has been already submitted along with our previous compliance report.
7. Copy of Air & Water progress report for Quarter October 2024 – December 2024 & January 2025 – March 2025 as submitted to U.P. Pollution Control Board. is attached as Annexure – V.
8. Work Zone monitoring data for the period October'2024 to March'2025 is attached as Annexure – VI.

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9. Noise Monitoring is done through approved laboratory on yearly basis the Monitoring result is attached as Annexure – VII.
10. Fly Ash Utilization details for the period October'2024 to March'2025 are attached as Annexure – VIII.

We hope you will please find the above in order.

Thank you,

Yours faithfully,  
FOR HINDALCO INDUSTRIES LIMITED

*Satyajit*  
Satyajit Acharya  
Head Environment & Sustainability

cc: Member Secretary, UPPCB, Lucknow  
R.O. UPPCB, Sonabhadra.

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Annexure – I



**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) dated December 2, 2011.

Period of Compliance Report : October'2024 to March'2025

**A. SPECIFIC CONDITIONS:**

| Sl. No | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Compliance Status                                                                                                                                                                                                                                                                                                               |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.i.   | The gaseous emissions (PM <sub>10</sub> , SO <sub>2</sub> , NO <sub>x</sub> , 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 <sup>3</sup> . | Complied with.                                                                                                                                                                                                                                                                                                                  |
| ii.    | The poly-aromatic hydrocarbons (PAH) from the carbon plant (anode bake oven) shall not exceed 2 mg/Nm <sup>3</sup> . The data on PAH shall be monitored quarterly and report submitted regularly to the Ministry / Regional Office at Lucknow and UPPCB.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Quarterly monitoring is being done by the approved laboratory, the monitoring report is attached as Annexure – V.                                                                                                                                                                                                               |
| iii.   | Fluoride consumption should be less than 10 kg/ton of Aluminium produced as specified in the CREP guidelines.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | In Place.                                                                                                                                                                                                                                                                                                                       |
| 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 monthly basis at the Roof Top and Center Passage of Pot Line. The report is attached as Annexure – VI. Dry Scrubbing system is in place to control emission from the Pot lines. Fugitive emission monitoring is being done on a monthly basis at the roof top / Center of Pot lines. |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | In place.                                                                                                                                                                                                                                                                                                                       |



|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       | 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 <sub>10</sub> , SO <sub>2</sub> , NO <sub>x</sub> (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.                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                |
| vi.   | Electrostatic precipitator(s) shall be provided to kiln and boiler stacks to control gaseous emissions within 50 mg/Nm <sup>3</sup> . 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 UPCL six monthly.                                                                                                                                                                                                                                                                        | Quarterly monitoring report for the quarter October'2024 - December'24 and January'25 to March'2025 is attached as Annexure – V.                                                                                                                                               |
| vii.  | Total water requirement after expansion from downstream of Rihand River shall not exceed 45,000 m <sup>3</sup> /day. Oily wastewater shall be treated in API separator and routed to reclamation pond for recycling. All the treated wastewaters 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. | Freshwater consumption is approx. 24446 Kl / day for plant process as well for drinking purpose in plant and colony. Treated ETP & STP effluent is being reused in plant process / horticulture and spraying purpose.<br><br>We have established ZLD concept in plant process. |
| 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 UPCL/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.<br>During the period of October'2024 to March'2025 approx. 637824 MT Red Mud is being sent to Cement Industries, which is approx. 114% against the generation of Red Mud.                                                                                       |
| ix.   | Green belt shall be developed in 33% area to mitigate the effects of fugitive emissions as per the CPCB guidelines.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | We have greenery in and around our plant which is approx. 35% of our plant area.                                                                                                                                                                                               |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Complied with.<br><br>Our used Anode Butt is mixed                                                                                                                                                                                                                             |



|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                         |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       | 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 UPPCB 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. | with raw mix for making green Anode. SPL (Carbon & Non-Carbon) is being dispatched to approved re-cyclers / TSDF in compliance of H.W Authorization.                                                    |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                         |
| xi.   | Occupational Health Surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.                                                                                                                                                                                                                                                                                                                                                          | Please find attached Periodical Health Check Up Status for the period of October'2024 to March'2025 as Annexure – A conduct in our OHC.                                                                 |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                         |
| 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 a program shall be ensured accordingly in a time bound manner.                                                                                                                         | Noted.<br>We have CSR department which is taken care of the social upliftment of nearby areas. Please find attached beneficiaries' details for the period of October'2024 to March'2025 as Annexure - B |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                         |
| xv.   | Provisions 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, crush 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                                                  | Complied with.                                                                                                                                                                                          |

|  |                                                                                                                                                                                    |  |
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|  | 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. |  |
|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

**B. GENERAL CONDITIONS:**

| <b>Sl. No</b> | <b>Description</b>                                                                                                                                                                                                                                                                                                                                   | <b>Compliance Status</b>                                                                    |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| 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 the 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 <sup>th</sup> 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 emissions are 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.                                                               | Four Nos. continuous Ambient Air Quality Monitoring (CAAQMS) have been installed at Renukoot. Quarterly monitoring is also being done by an approved laboratory. The monitoring report is attached as Annexure – V. |
| v.    | Industrial wastewater shall be properly collected treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 <sup>th</sup> May, 1993 and 31 <sup>st</sup> 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 PPEs 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 compiled all measures as recommended. A separate CSR dept is working for developing social life of nearby villages.                                                                                         |
| 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 schedule 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 <sub>2</sub> , NO <sub>x</sub> (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 <sup>st</sup> 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. |
| 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 <a href="http://envfor.nic.in">http://envfor.nic.in</a> . This shall be advertised within seven days from                                                                                                                                                                                                                                                                                                 | Complied with.                                                                                  |

|     |                                                                                                                                                                                                                                                                                                                                                                                                       |        |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
|     | 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.                                                                                                                         |        |
|     |                                                                                                                                                                                                                                                                                                                                                                                                       |        |
| 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 Transboundry Movement) Rules, 2021 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules. | Noted. |



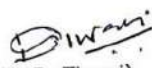
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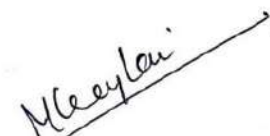
**OCCUPATIONAL HEALTH SERVICES**  
**HINDALCO INDUSTRIES LIMITED, RENUKOOT**

TO  
ENVIRONMENT CELL  
HINDALCO, RENUKOOT

**PERIODICAL HEALTH CHECK UP STATUS**  
(From Oct -2024 To Mar -2025)

| PERIODICAL HEALTH<br>CHECK-UP | AUDIOMETRY | SPIROMETRY | VISION<br>SCREENING | ECG  | X-ray |
|-------------------------------|------------|------------|---------------------|------|-------|
| 5696                          | 5586       | 2577       | 4745                | 4541 | 3746  |

  
(T. D. Tiwari)  
Sr. Officer

  
(Dr. Monika Guglani)  
Chief Consultant

**HINDALCO-RURAL DEVELOPMENT  
OUTCOME OF RURAL DEVELOPMENT ACTIVITIES  
FOR THE PERIOD OF Oct- 2024 TO Mar 2025  
OPERATIONAL AREA:- RENUKOOT; OPERATIONAL VILLAGES-**

| (A) | <b>EDUCATION AND CAPACITY BUILDING PROGRAMME</b>                      | <b>Benef.</b> |
|-----|-----------------------------------------------------------------------|---------------|
|     | <b>Activities</b>                                                     |               |
| 1   | Anganwadies(Govt. Run) supported by CSR - 10                          | 300           |
| 2   | No of Aditya Bal Vidya Mandirs we run- 3 Nos.                         | 1443          |
| 3   | No of Balwadis run by us - 11 Nos.                                    | 281           |
| 4   | Residential school (special for tribal students) supported by CSR - 1 | 300           |
| 5   | KGBVs /Girl's residential Schools supported by CSR - 1                | 100           |
|     | <b>Sub Total</b>                                                      | <b>2424</b>   |

| (B) | <b>Health &amp; Family Welfare Prog.</b>                | <b>Benef.</b> |
|-----|---------------------------------------------------------|---------------|
|     | <b>Activities</b>                                       |               |
| 1   | Hospital / Health Centre own by Company / Trust- 5 Nos. | 11711         |
| 2   | General Medical Camps- 85 camps                         | 6324          |
| 3   | Ante & Post Natal Care                                  | 6846          |
| 4   | Immunisation to Infants / Children                      | 13401         |
| 5   | STD / RTI, AIDS Awareness & First Aid - 10 Nos.         | 424           |
| 6   | Specially abled camps organised - 3                     | 69            |
| 7   | Safe Drinking Water                                     | 65000         |
| 8   | School Health Check up camps organised by us- 15 Camps  | 389           |
| 9   | Patients operated with IOL                              | 78            |
|     | <b>Sub Total</b>                                        | <b>104242</b> |

| (C) | <b>ECONOMIC SELF RELIANCE AND WATERSHED DEVELOPMENT</b>                 | <b>Benef.</b> |
|-----|-------------------------------------------------------------------------|---------------|
|     | <b>Activities</b>                                                       |               |
| 1   | Agriculture Support Programme                                           | 3972          |
| 2   | Support to farmers for honeybee keeping                                 | 5             |
| 3   | Women Self Help Groups - 230 groups                                     | 2430          |
| 4   | Support for fish farming business - 14 groups                           | 56            |
| 5   | Watershed structure constructed - 06                                    | 95            |
| 6   | 34 Lift irrigation systems installed for irrigation support to farmers. | 354           |
|     | <b>Sub Total</b>                                                        | <b>6912</b>   |

| (D) | <b>INFRASTRUCTURAL DEVELOPMENT :</b>  | <b>Benef.</b> |
|-----|---------------------------------------|---------------|
|     | <b>Activities</b>                     |               |
| 1   | School Building & furnitures provided | 0             |
|     | <b>Sub Total</b>                      | <b>0</b>      |

| (E) | <b>SOCIAL UPLIFTMENT AND WOMEN EMPOWERMENT</b>                                    | <b>Benef.</b> |
|-----|-----------------------------------------------------------------------------------|---------------|
|     | <b>Activities</b>                                                                 |               |
| 1   | Values Promotion camps/Awareness drives on knowledge attitude & practice- 90 Nos. | 5334          |
| 2   | Tournament, Festivals and Cultural prog.- 02 Nos.                                 | 833           |
|     | <b>Sub Total</b>                                                                  | <b>6167</b>   |

| (F) | <b>ADITYA BIRLA RURAL TECHNOLOGY PARK, MUIRPUR</b> | <b>Benef.</b> |
|-----|----------------------------------------------------|---------------|
|-----|----------------------------------------------------|---------------|



|                    |                                                                                            |               |
|--------------------|--------------------------------------------------------------------------------------------|---------------|
|                    | <b>DEVELOPMENT ACTIVITIES AT THE ADITYA BIRLA RURAL TECHNOLOGY PARK, MUIRPUR</b>           |               |
| 1                  | Vocational Training Centre and Skill Development Training at AB RTP & Three Block- 20 Nos. | 335           |
| 2                  | Treatment at Rural Hospital (daily OPD, operations)                                        | 4483          |
| <b>Sub Total</b>   |                                                                                            | <b>4818</b>   |
| <b>Grand Total</b> |                                                                                            | <b>124563</b> |

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 : October'2024 to March'2025

**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.                                                                                                                                                                                                                                                                                           | In Place.                                                                                                                                                                                                                  |
|         |                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                            |
| 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. | In Place.                                                                                                                                                                                                                  |
|         |                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                            |
| 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 <sup>3</sup> .                                                                                                                                                                                                                                                                              | 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 <sup>th</sup> year full fly ash utilization should be ensured.                                                                               | 147608 MT of ash has been dispatched to various Cement Industries and in other users for the period of October'2024 to March'2025. Fly Ash utilization is 100.32% against generation. Please see attached Annexure – VIII. |

| Sr. No. | <i>Conditions</i>                                                                                                                                                                                                                  | <b>Compliance Status</b>                                                                                                                      |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| VII)    | Water requirement should not exceed 6150 m <sup>3</sup> /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.                                                                        |
| 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.                                  | It has been maintained.                                                                                                                       |
| 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 <a href="http://envfor.nic.in">http://envfor.nic.in</a> | Necessary actions 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             |

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**Corporate Identity No.** L27020MH1958PLC011238





**Uttar Pradesh Pollution Control Board**  
 Building, No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010  
 Phone:0522-2720828,2720831, Fax:0522-2720764, Email: info@uppcb.in, Website: www.uppcb.com

Category : RED Application Id : 26074060  
 209314/UPPCB/Sonebhadra(UPPCBRO)/CTO/both/SONBHADRA/2024 Date: 17/12/2024

To,  
 M/s  
**HINDALCO INDUSTRIES LIMITED RENUKOOT**  
 Hindalco Industries Limited,Renukoot,SONBHADRA,231217

Consolidated Consent to Operate and Authorisation hereinafter referred to as the CCA (Consolidated Consent & authorization) (Fresh) under Section-25 of the Water (Prevention & Control of Pollution) Act, 1974 and under Section-21 of the Air (Prevention & Control of Pollution) Act, 1981

CCA is hereby granted to **HINDALCO INDUSTRIES LIMITED RENUKOOT** located at **Hindalco Industries Limited,Renukoot,SONBHADRA,231217**. subject to the provisions of the Water Act, Air Act and the orders that may be made further and subject to following terms and conditions :-

1. This CCA **HINDALCO INDUSTRIES LIMITED RENUKOOT** granted for the period from 01/01/2025 to 31/12/2029 and valid for manufacturing of following products.

| S No | Product             | Quantity | Unit                |
|------|---------------------|----------|---------------------|
| 1    | Aluminium Metal     | 35672    | Metric Tonnes/Month |
| 2    | Extruded Product    | 4000     | Metric Tonnes/Month |
| 3    | Flat Rolled Product | 10000    | Metric Tonnes/Month |
| 4    | Wire Rod            | 8500     | Metric Tonnes/Month |
| 5    | Co Gen Power        | 84       | Megawatt            |

2. Conditions under Water(Prevention and Control of Pollution) Act -1974 as amended :-

(i) The daily quantity of effluent discharge (KLD) :-

| Kind of Effluent | Quantity(KLD) | Treatment facility     | Discharge point                                                                                  |
|------------------|---------------|------------------------|--------------------------------------------------------------------------------------------------|
| Domestic         | 14450 KLD     | STP                    | Treated effluent shall be reused in flushing, dust suppression and irrigation and other purposes |
| Industrial       | 8100 KLD      | ETP, PWRP-1 and PWRP-2 | ZLD (Treated effluent shall be 100% recycled in the process, cooling and horticulture etc)       |

(ii) Trade Effluent Treatment and Disposal :-The applicant shall operate Effluent Treatment Plant consisting of primary/secondary and tertiary treatment as is required with reference to influent quantity and quality.

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In case of stoppage of functioning of ETP, production has to be stopped immediately and this Board has to be intimated by fax/phone/email with a report in this regard to be dispatched immediately.

(iii) The treated effluent shall be recycled to the maximum extent and should be reused within the premises for gardening etc. Quality of the treated effluent shall meet to the following general and specific standards as prescribed under Environment (Protection) Rules, 1986 and applicable to the unit from time-to-time :-

#### Industrial Effluent Quality Standard

| S.No. | Parameter      | Standard   |
|-------|----------------|------------|
| 1     | BOD            | 30 mg/l    |
| 2     | COD            | 250 mg/l   |
| 3     | TSS            | 100 mg/l   |
| 4     | Oil and Grease | 10 mg/l    |
| 5     | Fluoride as F  | 2.0 mg/l   |
| 6     | Sulphide as S  | 2.0 mg/l   |
| 7     | pH             | 6.5 to 9.0 |

(iv) Sewage Treatment and Disposal :- The applicant shall provide comprehensive STP as is required with reference to influent quantity and quality. In case of stoppage of functioning of STP, production has to be stopped immediately and this Board has to be intimated by fax/phone/email with a report in this regard to be dispatched immediately.

(v) The treated sewage shall be reused in gardening as far as possible. The STP shall be maintained continuously so as to achieve the quality of the treated sewage to the following standards.

| S No. | Parameters                 | Standards         |
|-------|----------------------------|-------------------|
| 1     | pH                         | 6.5 - 9.0         |
| 2     | BOD (mg/L)                 | 30 mg/l           |
| 3     | TSS (mg/L)                 | 100 mg/l          |
| 4     | Fecal Coliform (MPN/100ml) | 1000 (MPN/100 ml) |

#### 3. Conditions under Air (Prevention and Control of Pollution) Act -1981 as amended :-

i) The applicant shall use following fuel and install a comprehensive control system consisting of control equipment as required with reference to generation of emissions and operate and maintain the same continuously so as to achieve the level of pollutants to the following standards.

#### Air Pollution Source Details

| S No. | Air Pollution Source   | Type of fuel | Stack no | Control Device     | Height of Stack                      |
|-------|------------------------|--------------|----------|--------------------|--------------------------------------|
| 1     | Boiler No. 1 (80 TPH)  | Coal         | 01       | Particulate Matter | 75 meter from ground level with ESP. |
| 2     | Boiler No. 2 (80 TPH)  | Coal         | 02       | Particulate Matter | 75 meter from ground level with ESP. |
| 3     | Boiler No. 3 (140 TPH) | Coal         | 03       | Particulate Matter | 88 meter from ground level with ESP. |

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|    |                              |             |    |                       |                                                  |
|----|------------------------------|-------------|----|-----------------------|--------------------------------------------------|
| 4  | Boiler No. 4<br>(150 TPH)    | Coal        | 04 | Particulate<br>Matter | 88 meter from<br>ground level<br>with ESP.       |
| 5  | Calciner<br>No. 1            | LDO/LSHS    | 05 | Particulate<br>Matter | 67 meter from<br>ground level<br>with ESP.       |
| 6  | Calciner<br>No. 2            | LDO/LSHS    | 06 | Particulate<br>Matter | 67 meter from<br>ground level<br>with ESP.       |
| 7  | DSS<br>Potline-I             | Electricity | 07 | Particulate<br>Matter | 34 meter high<br>stack with<br>DSS, Bag<br>House |
| 8  | DSS<br>Potline-II            | Electricity | 08 | Particulate<br>Matter | 34 meter high<br>stack with<br>DSS, Bag<br>House |
| 9  | DSS<br>Potline-III           | Electricity | 09 | Particulate<br>Matter | 34 meter high<br>stack with<br>DSS, Bag<br>House |
| 10 | DSS<br>Potline-IV<br>(Old)   | Electricity | 10 | Particulate<br>Matter | 34 meter high<br>stack with<br>DSS, Bag<br>House |
| 11 | DSS<br>Potline-IV<br>(Ph-I)  | Electricity | 11 | Particulate<br>Matter | 34 meter high<br>stack with<br>DSS, Bag<br>House |
| 12 | DSS<br>Potline-IV<br>(Ph-II) | Electricity | 12 | Particulate<br>Matter | 34 meter high<br>stack with<br>DSS, Bag<br>House |
| 13 | DSS<br>Potline-V             | Electricity | 13 | Particulate<br>Matter | 34 meter high<br>stack with<br>DSS, Bag<br>House |
| 14 | DSS<br>Potline-VI            | Electricity | 14 | Particulate<br>Matter | 34 meter high<br>stack with<br>DSS, Bag<br>House |
| 15 | DSS<br>Potline-VII           | Electricity | 15 | Particulate<br>Matter | 34 meter high<br>stack with<br>DSS, Bag<br>House |
| 16 | DSS<br>Potline-VIII          | Electricity | 16 | Particulate<br>Matter | 34 meter high<br>stack with<br>DSS, Bag<br>House |
| 17 | DSS<br>Potline-IX            | Electricity | 17 | Particulate<br>Matter | 34 meter high<br>stack with<br>DSS, Bag<br>House |
| 18 | DSS<br>Potline-X             | Electricity | 18 | Particulate<br>Matter | 34 meter high<br>stack with<br>DSS, Bag<br>House |

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|    |                                        |             |    |                    |                                                           |
|----|----------------------------------------|-------------|----|--------------------|-----------------------------------------------------------|
| 19 | DSS Potline-XI                         | Electricity | 19 | Particulate Matter | 34 meter high stack with DSS, Bag House                   |
| 20 | Baking Furnace No. 4                   | LSHS/LDO    | 20 | Particulate Matter | 44.5 meter high stack with Wet Electrostatic Precipitator |
| 21 | Baking Furnace No. 5                   | LSHS/LDO    | 21 | Particulate Matter | 45 meter high stack with Fume Treatment Plant, Bag House  |
| 22 | Baking Furnace No. 6                   | LSHS/LDO    | 22 | Particulate Matter | 58 meter high stack with Fume Treatment Plant, Bag House  |
| 23 | Carbon Plant- North Bag House          | -           | 23 | Particulate Matter | 17 meter high stack with Bag House                        |
| 24 | Carbon Plant- Middle Bag House         | -           | 24 | Particulate Matter | 17 meter high stack with Bag House                        |
| 25 | Carbon Plant- South Bag House          | -           | 25 | Particulate Matter | 17 meter high stack with Bag House                        |
| 26 | Carbon Plant- Anode Bag House          | -           | 26 | Particulate Matter | 12 meter high stack with Bag House                        |
| 27 | Carbon Plant - Cathode Bag House       | -           | 27 | Particulate Matter | 12 meter high stack with Bag House                        |
| 28 | Carbon Plant - Mixing Bag house        | -           | 28 | Particulate Matter | 9 meter high stack with Bag House                         |
| 29 | Ball Mill 12 Ton bag house             | -           | 29 | Particulate Matter | 10 meter high stack with Bag House                        |
| 30 | Pitch Fume Treatment Plant - bag house | -           | 30 | Particulate Matter | 17 meter high stack with Bag House                        |
| 31 | Butt Circuit Bag House                 | -           | 31 | Particulate Matter | 22 meter high stack with Bag House                        |
| 32 | Pitch Plant bag house                  | -           | 32 | Particulate Matter | 18 meter high stack with Bag House                        |

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|    |                                                   |           |    |                    |                                    |
|----|---------------------------------------------------|-----------|----|--------------------|------------------------------------|
| 33 | CPC bag house (New)                               | -         | 33 | Particulate Matter | 14 meter high stack with Bag House |
| 34 | CPC bag house (Old )                              | -         | 34 | Particulate Matter | 14 meter high stack with Bag House |
| 35 | CPC bag house New Circuit                         | -         | 35 | Particulate Matter | 22 meter high stack with Bag House |
| 36 | Additional CPC bag house                          | -         | 36 | Particulate Matter | 12 meter high stack with Bag House |
| 37 | Hammer Mill - Dust Collector No. 1                | -         | 37 | Particulate Matter | 32 meter high stack with Bag House |
| 38 | Cast House S-1                                    | LSHS /LDO | 42 | Particulate Matter | 34 meter high Stack.               |
| 39 | Cast House S-2                                    | LSHS/LDO  | 43 | Particulate Matter | 34 meter high Stack.               |
| 40 | Melting and Holding Furnace DC2                   | LSHS /LDO | 47 | Particulate Matter | 30.5 meter high Stack.             |
| 41 | Melting and Holding Furnace DC5                   | LSHS /LDO | 49 | Particulate Matter | 30.5 meter high Stack.             |
| 42 | Melting and Holding Furnace 6 PZ1                 | LSHS /LDO | 50 | Particulate Matter | 30.5 meter high Stack.             |
| 43 | Melting and Holding Furnace 7 PZ2                 | LSHS /LDO | 52 | Particulate Matter | 30.5 meter high Stack.             |
| 44 | Melting and Holding Furnace 8 PZ3                 | LSHS /LDO | 54 | Particulate Matter | 30.5 meter high Stack.             |
| 45 | Billet casting melting cum Holding Furnace no. B1 | LSHS /LDO | 56 | Particulate Matter | 30.5 meter high Stack.             |
| 46 | Billet Casting Melting cum Holding Furnace no. B2 | LSHS /LDO | 57 | Particulate Matter | 30.5 meter high Stack.             |
| 47 | Cupola Furnace < 3 TPH                            | LSHS /LDO | 58 | Particulate Matter | 5.75 meter high Stack.             |

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|    |                                                         |           |    |                    |                                      |
|----|---------------------------------------------------------|-----------|----|--------------------|--------------------------------------|
| 48 | New Billet casting melting cum Holding Furnace Plant II | LSHS /LDO | 59 | Particulate Matter | 38 meter high Stack.                 |
| 49 | Cast House 30 MT Melting & Holding Furnace S4           | LSHS /LDO | 60 | Particulate Matter | 30.5 meter high Stack.               |
| 50 | Hammer Mill - Dust Collector No. 2                      | -         | 38 | Particulate Matter | 14.5 meter high stack with Bag House |
| 51 | Hammer Mill - Dust Collector No. 3                      | -         | 39 | Particulate Matter | 15 meter high stack with Bag House   |
| 52 | Hammer Mill - Dust Collector No. 4                      | -         | 40 | Particulate Matter | 14 meter high stack with Bag House   |
| 53 | Hammer Mill - Dust Collector No. 5                      | -         | 41 | Particulate Matter | 30 meter high stack with Bag House   |
| 54 | Cast House S-3                                          | LSHS /LDO | 44 | Particulate Matter | 51 meter high Stack.                 |
| 55 | Cast House P-1 and P-2                                  | LSHS /LDO | 45 | Particulate Matter | 30 meter high Stack.                 |
| 56 | Caster Plant                                            | LSHS /LDO | 46 | Particulate Matter | 50 meter high Stack.                 |
| 57 | Melting and Holding Furnace DC4                         | LSHS /LDO | 48 | Particulate Matter | 30.5 meter high Stack.               |
| 58 | Melting and Holding Furnace 6 A PZ1                     | LSHS /LDO | 51 | Particulate Matter | 30.5 meter high Stack.               |
| 59 | Melting and Holding Furnace 7 A PZ2                     | LSHS /LDO | 53 | Particulate Matter | 30.5 meter high Stack.               |
| 60 | Melting and Holding Furnace 8 A PZ3                     | LSHS /LDO | 55 | Particulate Matter | 30.5 meter high Stack.               |

#### Emmission Quality Standards

| S No. | Stack no | Parameters         | Standards              |
|-------|----------|--------------------|------------------------|
| 1     | 01       | Particulate Matter | 150 mg/Nm <sup>3</sup> |
| 2     | 02       | Particulate Matter | 150 mg/Nm <sup>3</sup> |
| 3     | 03       | Particulate Matter | 150 mg/Nm <sup>3</sup> |

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|    |          |                      |                                                |
|----|----------|----------------------|------------------------------------------------|
| 4  | 04       | Particulate Matter   | 150 mg/Nm <sup>3</sup>                         |
| 5  | 05       | Particulate Matter   | 250 mg/Nm <sup>3</sup>                         |
| 6  | 06       | Particulate Matter   | 250 mg/Nm <sup>3</sup>                         |
| 7  | 07 to 19 | Particulate Matter   | 150 mg/Nm <sup>3</sup>                         |
| 8  | 07 to 19 | Particulate Matter   | Total Fluoride 0.8 kg/MT of Aluminium produced |
| 9  | 20 to 22 | Particulate Matter   | 50 mg/Nm <sup>3</sup>                          |
| 10 | 20 to 22 | Quantity of Emission | Total Fluoride 0.3 kg/MT of Aluminium produced |
| 11 | 23 to 60 | Particulate Matter   | 150 mg/Nm <sup>3</sup>                         |

In case of stoppage of functioning of air pollution control equipment, production has to be stopped immediately and this Board has to be intimated by fax/phone/email with a report in this regard to be dispatched immediately

(ii) The unit will not use any type of restricted fuel.

iii) Noise from the D.G. Set and other source(s) should be controlled by providing an acoustic enclosure as is required for meeting the ambient noise standards for night and day time as prescribed for respective areas/zones (Industrial, Commercial, Residential, Silence) which are as follows :-

Day time : from 6.00 a.m. to 10.00 p.m., Night time: from 10.00 p.m. to 6.00 a.m.

| Standards for Noise level in db(A) Leq | Industrial Area |            | Commercial Area |            | Residential Area |            | Silence Zone |            |
|----------------------------------------|-----------------|------------|-----------------|------------|------------------|------------|--------------|------------|
|                                        | Day Time        | Night Time | Day Time        | Night Time | Day Time         | Night Time | Day Time     | Night Time |
|                                        | 75              | 70         | 65              | 55         | 55               | 45         | 50           | 40         |

#### 4. Essential documents to be submitted by the Industry/Unit as Applicable :-

(i) Environment Statement in Form-V of Environment (Protection) Rules, 1986.

(ii) Quarterly compliance report of the CCA, photograph of ETP/APCs/Waste Storage Area.

5. Competent Authority reserves the right to change/modify/add any time any condition of this CCA.

6. Unit has to comply with the following specific & general conditions. Non compliance of any provision of this CCA and provisions of the Water Act, Air Act and Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 will result in legal action under the aforesaid Acts and Rules.

7. In compliance to the G.O 1011/81-7-2021-09 (Writ)/2016 dated 13.10.2021 issued by Department of Environment, Forest and Climate Change, Uttar Pradesh. You are directed to develop Miyawaki Forest as per the SOP available at URL:-<http://www.upecp.in/TrainingSession.aspx> for ensuring timely compliance of this direction, you are hereby directed to submit a bank guarantee with minimum validity of one year of the amount equivalent to the sum of initial consent fees (Air and Water) or Rs. 50,000/- (Rs. Fifty Thousand Only) whichever is more, within 30 days from the date of issuance of this certificate. In case of non-compliance of this direction, your consent will be revoked by the Board.

8. If the unit uses the ground water and requires the permission from SGWA/CGWA for water abstraction then the industry will have to obtain No objection certificate for abstraction of ground water. It will be the responsibility of the industry to comply with the various conditions of the NOC obtained from the competent authority and submit to the Board, within 3 months time failing which CTO will be revoked.

#### General Conditions:-

1. The applicant shall get analysed the samples of effluent/emission/hazardous wastes at least once in a three month from the laboratory recognized by the MoEF and shall report to the UPPCB.

HINDALCO INDUSTRIES LIMITED  
Renukoot Works  
P.O. Renukoot - 231217  
Distt. Sonbhadra (U.P.)  
Telephone +91 5446 252077-79 / 254791-96  
Fax +91 5446 252107 / 252427

REGISTERED OFFICE  
Ahura Centre, 1<sup>st</sup> Floor, B-Wing  
Mahakali Caves Road,  
Andheri(East), Mumbai 400 030  
Telephone +91 22 6691 7000  
Fax +91 226691 7001

Website [www.hindalco.com](http://www.hindalco.com)  
E mail [hindalco@adityabirla.com](mailto:hindalco@adityabirla.com)  
Corporate Identity No. L27020MH1958PLC011238





2. The applicant shall however, not without the prior consent of the Board bring into use any new or altered outlet for the discharge of effluent or gases emission or sewage waste from the unit.
3. Treated Industrial waste water and domestic waste water shall be disposed jointly at one disposal point. The applicant shall provide discharge measurement equipment at final disposal point.
4. The applicant shall strictly comply with conditions of this CCA and submit compliance report of stipulated conditions within 30 days of receipt of this CCA. If at any point of time, it is found that the industry is not complying with stipulated conditions or any further direction/instruction issued by the Board, legal action shall be initiated against the applicant.
5. The applicant shall maintain good house keeping. All valves/pipes/sewer/drains etc. must be leak-proof
6. The industry shall provide uninterrupted entry to the STP/ETP inlet and outlet points, Air Pollution Control equipment and stack for smooth sampling/monitoring of efficiency of pollution control systems.
7. The industry shall provide Inspection Book at the time of inspection to the Board's officials.
8. Whenever due to any accident or other unforeseen act or event, such emission occurs or is apprehended to occur in excess of standards laid down, such information shall be reported to the Board's offices and all other concerned offices. In case of failure of pollution control equipment, the production process connected to it shall be stopped with immediate effect.
9. The industry shall operate in a manner so that all emissions be emitted through designated chimney/stack only.
10. In case of any damage to the agriculture productivity, human habitation etc. by the operation of industry, it shall be imperative to stop production in the industry with immediate effect and such information shall be reported to Board's offices. The industry shall be liable to pay compensation also in such cases as decided by the Competent Authority.
11. The applicant shall apply before the 60 days of expiry of CCA or any change in production types/ production capacity/manufacturing process/capacity enhancement etc. or any change in effluent discharge point or emission point
12. The Board reserves the right to revoke/add/modify any stipulated condition issued along with CCA, as may be necessary.

#### Specific Conditions:-

1. This CTO is valid for the approved production capacity of Aluminium Metal-4,20,000 MT/Annum (max 35,672 MT/Month) (Extruded Product-4000 MT/Month, Flat Rolled Product-10000 MT/Month, Wire Rod-8500 MT/Month), using Bauxite as main raw material and Alumina (7,20,000 MTPA) as intermediate product, Co-gen Power - 84 MW and CPC Consumption - 1,84,800 MTPA ,Inclusive of imported CPC - 84,000 MTPA as raw material for anode making.
2. This CTO is inclusive for CBL - 800 MT/Month, DGL - 2500 MT/Month, Extrusion Press No. 9 - Extruded Aluminium Product -560 MT/Month, Machine Shop - Extruded Finished Product - 38.33 MT/Month, Holding and Refining Furnace in Cast House - Molten Metal - 4375 MT/Month, New Billet Casting - Aluminium Billets - 3750 MT/Month and Filter Press - ETP Sludge (65 % Solid) - 791 MT/month.
3. Industry shall comply with the provisions of MoEF&CC Office Memorandum No. Q-18011/54/2018-CPA, September 10, 2018.
4. Industry shall develop and maintain green belt on 40% area of the total land as per the office memorandum No. H 48273/C-1/NGT-83/2020 dated 27-02-2020 issued by UPPCB.
5. Industry shall treat industrial effluent to achieve the standards prescribed under Environment (Protection) Rules, 1986. Industrial effluent after shall be 100% recycled in the process, cooling and horticulture etc. The industry shall ensure ZLD.
6. Domestic effluent shall be treated through STP and treated domestic effluent shall be reused in flushing, dust suppression and irrigation of green belt and other purposes. Industry shall install Online Continuous Effluent Mentoring system at the outlet of STP within 03 months.

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7. Industry shall install PTZ camera at ETP, STP and PWRP within 15 days and their URLs shall be submitted to the Board.
8. Industry shall submit the stack monitoring reports, ETP and STP treated effluent analysis reports of NABL accredited laboratory on 06 monthly basis to the Board.
9. Red mud shall be stored in such manner that no red mud leached out to ground water during monsoon and post monsoon period. Industry shall facilitate utilization of red mud and safe disposal.
10. Industry shall operate and maintain APCS on all air pollution sources in such a manner that emissions always conform to the standard laid down under the Environment (Protection) Act 1986 as amended and office memorandum No. H 48273/C-1/NGT-83/2020 dated 27-02-2020 issued by UPPCB.
11. The industry shall operate and maintain the Online Continuous Emission Monitoring System with arrangement for continuous and uninterrupted data supply from the OCEMS to the SPCB and CPCB server. Industry shall also calibrate installed OCEMS on six monthly basis.
12. Industry shall provide the Stack monitoring arrangement as per the guidelines of CPCB.
13. Industry shall not use ground water without obtaining permission from the UP-GWA.
14. Solid waste shall be disposed in such manner so that no air, water and soil pollution takes place.
15. Industry shall comply with the provisions of Hazardous and Other waste (Management & Trans boundary Movement) Rules 2016 and shall submit details of Hazardous waste disposal in Form-10.
16. Industry shall submit environmental statement in prescribed format as per rule 14 of Environment (Protection) Act, 1986.
17. Industry shall abide by directions given by Hon'ble Court, MoEF&CC, Central Pollution Control Board and UPPCB for protection and safe guard of environment from time to time.
18. Industry shall comply with the directions issued under Singrauli Action Plan and recommendation of Core Committee in time bound manner.
19. Consent fees if revised, shall be payable by industry from the date of its applicability.
20. Industry shall ensure the compliance of directions given by Fly Ash Utilization Mission constituted by Hon'ble NGT from time to time.
21. Industry shall comply with the relevant provisions of Environmental Laws.
22. If closure order is issued by CPCB or UPPCB against the unit, then CTO issued earlier will remain suspended during the closure period and after ensuring the compliance and after revocation of closure order, the CTO will automatically be effective with additional conditions mentioned in the closure revocation order.

ATULESH  
YADAV  
Digitally signed by ATULESH  
YADAV  
DN: cn=ATULESH YADAV, o=HINDALCO  
INDUSTRIES LIMITED, email=atulesh.yadav@hindalco.com

Chief Environmental Officer Circle-2

Copy to:

Regional Officer, UPPCB, Sonbhadra with direction to send the compliance report of CTO conditions on quarterly basis to Head Office

ATULESH YADAV  
Digitally signed by ATULESH  
YADAV  
DN: cn=ATULESH YADAV, o=HINDALCO  
INDUSTRIES LIMITED, email=atulesh.yadav@hindalco.com

Chief Environmental Officer Circle-2

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**मिशन LIFE - पर्यावरण के लिए जीवन शैली**  
(Lifestyle For Environment)  
जनसहभागिता का सन्देश



- स्वच्छता - देशभरा में अपने परिवेश की स्वच्छता हेतु अपना सक्रिय योगदान सुनिश्चित करें
- संकल्प लें - एकल उपयोग प्लास्टिक उत्पाद जैसे कप, तश्तरी, चम्मच, स्ट्रॉ, डीपरबडून आदि का उपयोग न हो एवं पर्यावरण अनुकूल विकल्पों जैसे कागज/पत्तों से इनें देने या कटलरी को प्राथमिकता दी जाय।
- एकल उपयोग प्लास्टिक उत्पाद के प्रयोग को रोकने एवं प्लास्टिक वेग के बनाय कपड़े के धोने का उपयोग करने माय से 375 मिलियन टन ट्रांस (प्लास्टिक) कचरे का उत्पन्न बचाया जा सकता है।
- वार्षिक अर्थव्यवस्था (मरुवर इकोनॉमी) का समुचित कार्यान्वयन वर्ष 2030 तक लगभग 14 लाख करोड़ रुपये की अतिरिक्त बचत उत्पाद कर सकता है। वेस्ट/अवांछित फैक्टने के पूर्व सोचें, ये किसी का संसाधन तो नहीं ...?
- अनुपयोगी इलेक्ट्रिक / इलेक्ट्रॉनिक उत्पाद को कचरे में फेंकने से रुके। इसके उपयुक्त निस्तारण हेतु इसे प्राधिकृत ई-वेस्ट गैस इकालर को दें। प्राधिकृत ई-गैस इकालर इकाई में अनुपयोगी इलेक्ट्रिक / इलेक्ट्रॉनिक उत्पाद को देने माय से 0.75 मिलियन टन तक ई-कचरे का पुनर्चक्रण किया जा सकता है एवं ई-कचरे के विषम पर्यावरणीय दुष्प्रभाव से बचा जा सकता है।
- बाहर जाने समय - सोचें कि क्या आपको वास्तव में परिवहन की आवश्यकता है - वह भी क्या व्यक्तिगत रूप से? छोटी दूरी के लिए पैदल चलना पसंद करें, अथवा सम्भव हो तो कार पूल के रूप में संसाधन को साझा करें अथवा सार्वजनिक परिवहन पर विचार करें।
- घरेलू स्तर पर कम से कम तीन अपशिष्ट का उत्पन्न करें और उनका प्राधिकरण करें।
- उपयोगी शेष खाद्य सामग्री आपके स्वयं प्रयास अथवा निकटस्थ सक्रिय स्वयं सेवी संस्थाओं की सहायता से समाज के वंचित वर्ग तक पहुंचाई जा सकती है। वहीं अनुपयोगी भोजन/खाद्य सामग्री को कंपोस्ट (बर्मी कम्पोस्ट) करने से 15 अरब टन भोजन को नष्ट होने से बचाया जा सकता है।
- ध्यान रखें - उपयुक्त तल और शायर के उपयोग से पानी की घनत्व को 30-40% तक कम किया जा सकता है। एवं उपयोग में न होने पर नलों को बंद रखने माय से 9 ट्रिलियन लीटर पानी बचाया जा सकता है।
- ट्रैफिक लाइट/रेलवे क्रॉसिंग पर काराकूटर के इंजन बंद करने माय से 22.5 बिलियन kWh तक ऊर्जा की बचत हो सकती है।
- परम्परागत बल्ब के स्थान पर CFL का उपयोग बिजली की खपत में प्रभावी कमी लाते हैं। उपयोग में न होने पर ब्रिक्ली उपकरणों को बंद करें। स्टार रेटेड बिजली उपकरणों के उपयोग को प्राथमिकता दें।

हमारे द्वारा अपनी जीवन शैली की प्राथमिकताओं का उचित और पर्यावरण अनुकूल पुनर्निर्धारण समाज और पर्यावरण के प्रति हमारा दायित्व है।

**HINDALCO INDUSTRIES LIMITED**  
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**REGISTERED OFFICE**  
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**Website** www.hindalco.com  
**E mail** hindalco@adityabirla.com  
**Corporate Identity No.** L27020MH1958PLC011238







## Bajaj Allianz General Insurance Company Ltd

[Corporate Identity Number (CIN): U86010PN2000PLC015320]

[Unique Identification Number (UIN): IRDAN113RP0023V01200102]

Registered and Head Office: Bajaj Allianz House, Airport Road, Yerwada, Pune-411006

### Transcript of Proposal for PUBLIC LIABILITY (ACT) POLICY

Dear HINDALCO INDUSTRIES LTD,

We Bajaj Allianz General Insurance Company Ltd ["Company"], wish to inform you that the your contract of insurance ("Policy") will be based on the information and declaration given by you through telephonic conversation / email / web-inputs / TAB or other means which would be considered as the final proposal, the transcript of which is as follows:

You are requested to yourself reconfirm the same at your end. In case of any disagreement or objection or any changes with respect to information mentioned below, we request you to please revert back within a period of 15 days from the date of your receipt of this document [but in case of short term Policy, your revert shall reach us before the activities/risks covered by Policy is started]. In case of our non-receipt of your disagreement or objection or any changes [as mentioned hereinabove] with respect to information mentioned below, it shall be deemed that you have positively confirmed to us the correctness of the below mentioned transcript and declaration. Where you disagree to any of information/contents of this transcript, standard Terms or conditions, you have the option to return the original Policy stating the reasons for your objection, and upon our receipt of original Policy together with your request to cancel the Policy, you shall be entitled to a refund of the premium paid, subject only to there being no claim made under the Policy and also subject to a deduction of the expenses incurred by us and the stamp duty charges. Kindly note that as the information/contents and declarations/confirmations provided by you as contained in this transcript is the basis on which we have issued the Policy to you, we advise you to please ensure that you have provided/disclosed and or not withheld any material facts/information and declarations, as Policy becomes Void ab-initio if material facts/information is/are not provided/disclosed and or withheld and in such case no claim, if any, will be considered by us apart from forfeiture of the premium.

1.

| Personal Information of Insured               |                                                       |                                   |                                                       |
|-----------------------------------------------|-------------------------------------------------------|-----------------------------------|-------------------------------------------------------|
| Title<br>[Mr/Mrs/Ms/Company/<br>other entity] | Company                                               | First Name                        | HINDALCO INDUSTRIES LTD                               |
| Middle Name                                   |                                                       | Last Name                         |                                                       |
| Email Address                                 | Kan-<br>chan.Ware@adityabirlacapital.com              | Mobile Number                     | 9000000000                                            |
| Date of Birth                                 |                                                       | Gender                            |                                                       |
| Pan No                                        | AAACH1201R                                            | Unique identity (Aadhaar<br>No.)  |                                                       |
| Permanent Address                             |                                                       | Mailing Address                   |                                                       |
| House No/ Building No/<br>Flat No             | 21ST FLOOR, ONE UNITY CENTER,<br>SENAPATI BAPAT MARG, | House No/ Building No/<br>Flat No | 21ST FLOOR, ONE UNITY CENTER,<br>SENAPATI BAPAT MARG, |
| Street/ Locality/ Land-<br>mark               |                                                       | Street/ Locality/ Land-<br>mark   |                                                       |
| State                                         | MAHARASHTRA                                           | State                             | MAHARASHTRA                                           |
| City                                          | MUMBAI                                                | City                              | MUMBAI                                                |
| Area                                          |                                                       | Area                              |                                                       |
| Pincode                                       | 400013                                                | Pincode                           | 400013                                                |

2.Business Manufacturing \_\_\_\_\_

3.Paid up capital (See Note) \_\_\_\_\_

4.List of hazardous substances handled and Group (See Note) \_\_\_\_\_

5.Details of all accidents during past 3 years and compensation paid/claimed but not yet paid: No such known and / or Reported claim so far \_\_\_\_\_

6.Estimated annual turnover (See note) \_\_\_\_\_

Proposed Insurance Year: For the Financial year 2013-14 \_\_\_\_\_

Current Year for the financial year 2012-13 \_\_\_\_\_

7.Number of

a.Workmen Employees:

b.Other employees

Fax no: 820-30612248

Give a Missed Call on 8080846080, SMS "WOFRRY" to 575758

Say Hi on WhatsApp us on 7507246862

HINDALCO INDUSTRIES LIMITED

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Total employees \_\_\_\_\_ in number.

8. Limit of indemnity required in respect of Any one accident: \_\_\_\_\_

9. Policy period required From \_\_\_\_\_

#### DECLARATIONS, WARRANTIES, TERMS AND CONDITIONS:

A. The contents of the proposal (transcript or proposal of you is this document) and connected documents have been fully explained to you and you have fully understood the significance of the proposed contract of Insurance basis which you have confirmed for Policy issuance.

B. You have clearly understood the terms and conditions [T & C] to the Insurance contract and agree that the statements, particulars, answers and/or particulars, information, declarations, warranties, documents given in/as per this proposal shall be held to be promissory and shall be the basis of the Insurance contract between you and the Company and your proposal is subject to the Board approved underwriting policy of the Company and that the Policy will come into force only after your full payment of the prescribed premium chargeable and our receipt and realisation of full prescribed premium.

C. You declare that the statements and particulars given in this transcript are complete, true and accurate in all respects, to the best of your personal knowledge and belief and that there is no other information, which is relevant to your proposal for Insurance that has not been disclosed to us. You undertake to exercise all ordinary and reasonable precautions for safety of the property as if it were uninsured. You shall immediately inform the Company if there are any subsequent changes to the information, declarations, warranties mentioned in this transcript of the proposal or if additions or alterations are carried out in the risk proposed after the submission of this proposal. You agree to the Standard Terms and Conditions of the Company. In case of Disagreement or objection or any changes with respect to information, declarations, exclusions and contents mentioned hereinabove, please contact Company's toll free number & register your objections / changes / disagreement to the contents of this transcript or you may also send us email or written correspondence within a period of 15 days from date of your receipt of this transcript along with Policy.

D. The Company shall have no liability under the Insurance contract if it is found that any of your statements, particulars, answers and/or particulars, information, declarations, warranties, in your this proposal or other documents are incorrect and/or untrue or suppressed any information or provided misleading or false information in any respect on any matter [whether material or not material] to the grant of a cover by the Company.

E. You authorize the Company to share information pertaining to your proposal for the sole purpose of underwriting the proposal and/or claims settlement and with any Governmental and/or Regulatory authority, reinsurers, group companies, auditors/legal counsel, service providers etc.,

F. You have read and understood the Privacy Policy of the Company and hereby unconditionally agree and bind yourself to all terms and conditions of the Company's Privacy Policy, as amended, from time to time.

G. You agree that the Standard Terms and Conditions sent to you for the Policy taken by you for the first time shall be applicable to the renewal Policy and the Company need not send the Standard Terms and Conditions at the time of renewal and if you require the same you will seek the same from the Company.

Toll free Number: 1800-103-2529, 1800-22-5858, 1800-102-5858 and 1800-209-5858

Email address: bagichelp@bajajallianz.co.in

Website: www.bajajallianz.com

Contact our Policy servicing branch at: Bajaj Allianz General Insurance Co Ltd, 952/954 Appasaheb Marathe Marg., Next to Saraswat Bhavan., Prabhadevi, Mumbai, MUMBAI-400025, Phone No: 02266628666

\*\* This is print of electronic records maintained by us in accordance with law and hence does not require signature.

Scrutiny No: 432543467

#### Prohibition of Rebates SECTION 41 OF INSURANCE ACT, 1938

No person shall allow or offer to allow either directly or indirectly as an inducement to any person to take out or renew or continue an Insurance in respect of any kind of risk relating to lives or property in India, any rebate of the whole or part of the commission payable or any rebate of the premium shown on the policy, nor shall any person taking out or renewing or continuing a policy accept any rebate except such rebate as may be allowed in accordance with the published prospectuses or tables of the Insurer. Any person making default in complying with the provisions of this section shall be punishable with a penalty, which may extend to Ten Lakh Rupees.

Date \_\_\_\_\_

Fax no: 020-30612246

Give a Missed Call on 9080946090, SMS "WORY" to 576768

Say Hi on WhatsApp us on 7607246862

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**Bajaj Allianz General Insurance Company Ltd.**  
**Bajaj Allianz House, Airport Road, Yerawada, Pune - 411006**  
**PUBLIC LIABILITY (ACT) POLICY POLICY SCHEDULE**  
**UIN: IRDAN113RP0023V01200102**

Policy Issuing office and Correspondence address for communication by policyholder for claim, service request, notice, summons, etc. : Bajaj Allianz General Insurance Co Ltd, 952/954 Appasaheb Marathe Marg., Next to Saraswat Bhavan, Prabhadevi, Mumbai, MUMBAI-400025 Phone No :02266628666

Policy No. OG-25-1919-3304-00000063  
Product PUBLIC LIABILITY (ACT) POLICY  
Period of Insurance From 00:01:00 05-DEC-24 To 04-DEC-25 Policy Issued On 24-DEC-24  
Midnight  
Co-Insurance Details Own Share: 100%  
Insured Name HINDALCO INDUSTRIES LTD  
Insured Address 21ST FLOOR, ONE UNITY CENTER, SENAPATI BAPAT MARG., , PO Area - PRABHADEVI, , MUMBAI, MAHARASHTRA - 400013  
Bank Details : No Details No Details  
GSTIN / UIN 27AAACH1201R1ZN Place of Supply/State 27 - Maharashtra  
Code/Name  
Company GST No : 27AABC5730G1ZX Invoice No : 369128814/5  
Company PAN : AABC5730G

| Description                                           | Sum Insured (Rs) |
|-------------------------------------------------------|------------------|
| Aggregate limit of indemnity during the policy period | 15,00,00,000.00  |

Additional\*\* Loading @ 0 %  
Additional Discount@ 0 %  
Base Premium 75,236.00  
Special Discount 0  
Net Premium 75,236.00  
Terrorism\*\* Surcharge 0.0  
Environment Fund 75,236.00  
Stamp Duty  
State GST (9%) 6,771.00  
Central GST (3%) 6,771.00  
Final Premium 1,64,014.00

\*\*\* All Premium figures are in Rupee.

On specific request and subject to terms and conditions, record of information exchange will be made available.

As per the GST regulations, the amount of GST will not be refunded if the policy / endorsement is cancelled after 30th September of the next financial year.

I/We hereby declare that though our aggregate turnover in any preceding financial year from 2017-18 onwards is more than the aggregate turnover notified under sub-rule (4) of rule 48, we are not required to prepare an invoice in terms of the provisions of the said sub-rule.

Scope of Cover As per the policy wording attached.  
Risk Covered Public Liability Act Insurance.  
Special Perils As per policy wordings attached.  
Special Exclusions As per policy wordings attached. Non-Affirmative Cyber Exclusion Clause  
subject to Clauses As per policy wordings attached.  
Warranties  
Limit of Indemnity: INR 5,00,00,000 per claim and INR 15,00,00,000 in aggregate; Insureds Premises: All premises within India Owned, Operated, Rented, Leased by the Insured for the business purposes;  
Risk Location of the Factory Address: BIRLA COPPER ASOJ PRIVATE LIMITED, SURVEY NO. 21, VILLAGE - ASOJ, VADODARA - HALOL HIGHWAY, TQ - WAGHODIA, DIST - VADODARA, GUJARAT - 391 510  
Special Conditions  
Estimated Annual Turnover - INR 7,68,78,00,00,000/-; Paid Up Capital: INR 2,24,72,16,523; Territory and Jurisdiction : India.; Insureds Business: Manufacturing, distribution, supply, sale & marketing of, & trade in; alumina, primary aluminium & downstream value added products through rolling extrusion and recycling; Power generation, Bauxite & coal mining, and related products & services. Manufacturing, distribution, supply, sale & marketing of, & trade in; Copper cathodes and continuous cast copper rods, precious metals, sulphuric acid, phosphoric acid, di-ammonium phosphate (DAP) & other phosphoric fertilizers, and phospho gypsum; and related products & services. Loading, Un-loading & Handling of Captive Cargo (Copper Unit) and Commercial Cargo at Dahej Harbour. Subsidiary Company Name: 1) Minerals and Minerals Limited; 2) Suvas Holdings Limited; 3) Uttal Alumina International Limited; 4) Hindalco-Alumex Aerospace Limited; 5) Dahej Harbour and Infrastructure Limited; 6) Tubed Coal Mines Limited; Business Description entity wise: Name of the Entity: Minerals & Minerals Limited; Business Description: Manufacture of non-metallic mineral products n.e.c; Name of the Entity: Suvas Holdings limited; Business Description: Power Generating Company; Name of the Entity: Uttal Alumina International Limited; Busi-

Fax no: 020-30612246  
Give a Missed Call on 9080946090, SMS "WORRY" to 676768  
Say Hi on WhatsApp us on 7607246862

**HINDALCO INDUSTRIES LIMITED**  
Renukool Works  
P.O.Renukool - 231217  
Distt. Sonbhadra (U.P.)  
Telephone +91 5446 252077-79 / 254791-96  
Fax +91 5446 252107 / 252427

**REGISTERED OFFICE**  
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Mahakali Caves Road,  
Andheri(East), Mumbai 400 030  
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Fax +91 226691 7001

Website www.hindalco.com  
E mail hindalco@adityabirla.com  
Corporate Identity No. L27020MH1958PLC011238







Business Description: Alumina Refining; Name of the Entity: Hindalco-Almex Aerospace Limited; Business Description: Manufacture of basic precious and non-ferrous metals; Name of the Entity: Dahej Harbour and Infrastructure Limited; Business Description: Building of complete constructions or parts thereof, civil engineering; Name of the Entity: Tubed Coal Mines Limited; Business Description: Mining and agglomeration of hard coal Includes underground or open-cut mining of anthracite, bituminous or other hard coal; cleaning, sizing, pulverizing and other operations to improve the quality; operations to recover hard coal from cullm banks; manufacture of briquettes or other solid fuels consisting chiefly of hard coal and in-situ gasification of coal. Hindalco Industries Ltd., Kuppam works, SY 255 279 257 Industrial Park C Block Kuppam, Chittoor 517425, Andhra Pradesh Business of the Insured:- Aluminium extrusion plant-Aluminium solutions for Heat Exchangers, Automotive applications and HVACR Turnover:- INR 360 Crores;

**Comments**

Rest as per Policy wording.

Bank RM Employee Code : Y

Business Occupancy : Others

Business Description : -

**Broker Code 10003766**

**Channel Name : BR**

**Broker Name : Edme Insurance Brokers Ltd**

**Contact No : 8939928889/18002095858**

**Email - k.panneer@adityabirlacapital.com**

**Premium Collection Details** [Receipt No/Collection No/Amount] 1919-00129362 / 432543467 / Rs. 1,54,014.00 ,

\*\*\* If Premium paid through Cheque, the Policy is void ab-initio in case of dishonour of Cheque

\*\*\* This policy is subject to the standard policy wordings, warranties and conditions applicable for this product in addition to any specific warranty or condition attached



For & On Behalf of Bajaj Allianz General Insurance Company Ltd.

*[Signature]*

Authorized Signatory

Printed, Signed and Executed at Pune



This document is digitally signed, hence counter signature / stamp is not required

Registered Office : Bajaj Allianz House, Airport Road, Yerwade Pune-411008 (India), A Company Incorporated under Indian Companies Act, 1956 and licensed by Insurance Regulatory and Development Authority of India (IRDA) vide Reg No.113, Corporate Identification Number U98610PN2000PLC016328.

Consolidated Stamp Duty of Rs. 8.25/- paid for insurance policy stamps vide Order No. CSD/36/2024-25/2886 dated 01-AUG-24 of General Stamp Office, Mumbai, India.

Principal Location : Bajaj Allianz House, Airport Road, Yerwade, Pune - 411008 PH-86026888 | Services Accounting Code : 887138 - Other non-life insurance services (excluding reinsurance services). No reverse charge is payable on these services.

In case of any claim, please contact our 24 Hour Call centre at 1800-102-5858 (Toll Free) / 91-020-30305858 (chargeable, add area code before this number in case of mobile call) or email us at "Bagichaip@bajajallianz.co.in".

It is mandatory to keep your policy with updated contact (Mobile No., Email ID and PAN Card) and bank account details, to process any of your service requests faster and hassle-free in future.

You can update the same through Calling your App (Link), WhatsApp Service ( Say Hi on WhatsApp +91 75072 45858), Contact our 24-Hour Call Center at 1800-209-5858, 1800-102-5858, Give a Missed Call on 8080945080, SMS WORRY to 575758, Email bagichaip@bajajallianz.co.in, website (http://www.bajajallianz.com), contact your agent or nearest branch.

432543467/-10003766/-

Prefix your area code if you are calling from a Mobile Device.

A Company Incorporated under Indian Companies Act, 1956 and licensed by Insurance Regulatory and Development Authority of India (IRDA) vide Reg No.113, Corporate Identification Number U98610PN2000PLC016328.

Quotation No : QU-25-1915-3304-00000098

Generated by bhushan chaudhari01

Fax no: 020-30612246

Give a Missed Call on 8080945080, SMS "WORRY" to 575758

Say Hi on WhatsApp us on 7507245858

**HINDALCO INDUSTRIES LIMITED**

Renukoot Works

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Fax +91 5446 252107 / 252427

**REGISTERED OFFICE**

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Fax +91 226691 7001

Website www.hindalco.com

E mail hindalco@adityabirla.com

Corporate Identity No. L27020MH1958PLC011238



Scanned with OKEN Scanner



January 27, 2025

To  
The Member Secretary,  
U.P. Pollution Control Board,  
T.C 12 – V, Vibhuti Khand,  
Gomtinagar,  
LUCKNOW

Sub: Progress Report under Section 21 / 22 of the Air (Prevention and Control Of Pollution) Act 1981 for the quarter (October'24 to December'24).

1. The industry is operating by maintaining all installed air pollution control system effectively and are in compliance for emission norms under EP Rules 1986.
  - a) Please find attached Ambient Air Monitoring reports for four locations monitored by an approved laboratory on quarterly basis as Annexure – I.
  - b) Stack emission monitoring is being done by an approved laboratory on quarterly basis as Annexure – II.
  - c) Calibration of installed OCEMS at our main process stacks (22 nos.) done by jointly with OEM & an approved laboratory on quarterly basis. The online emission data is being transmitted to CPCB server regularly. Please find attached Calibration report as Annexure –III.
  - d) Please find attached compliance report on recommendation of core committee constituted by Hon'ble NGT as Annexure – IV.
  - e) Ash generation and utilization for the quarter October'24 to December'24 as mentioned below.

| Month            | October-24 | November-24 | December-24 |
|------------------|------------|-------------|-------------|
| Generation (MT)  | 29012.394  | 27347.996   | 24635.471   |
| Utilization (MT) | 29163.584  | 27444.510   | 24725.471   |

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डाक प्राप्ति रसीद  
प्रति दिनांक 31/12/25  
प्रमाणित के अनुसार  
उपरोक्त प्रमाण प्रमाणित आहे, महाराष्ट्र

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:2:

We hope you will please find the above in order.

Thanking you,

Yours faithfully,  
FOR HINDALCO INDUSTRIES LIMITED

Anil Singh  
A.G.M (Environment)

cc: The Regional Officer,  
U.P. Pollution Control Board,  
House No. 162, Uttar Mohal,  
Sonebhora.

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o/k

January 27, 2025

The Member Secretary,  
U.P. Pollution Control Board,  
T.C 12 - V, Vibhuti Khand,  
Gomtinagar,  
LUCKNOW

Sub: Progress Report under Section 25 / 26 of the Water (Prevention and Control of Pollution) Act 1974 for the quarter (October'24 to December'24).

1) The Industrial Effluent Treatment Plant and the Domestic Effluent Treatment Plant were operated continuously during the quarter October'24 to December'24. The Details are as follows.

a) The Quantity of treated Effluent Recycled & Reused in KL / Day.

| Month | October-24 | November-24 | December-24 |
|-------|------------|-------------|-------------|
|       | 4882       | 4262        | 4187        |

b) The Treated Effluent discharged into Murdhawa Nallah in KL / Day.

| Month | October-24 | November-24 | December-24 |
|-------|------------|-------------|-------------|
|       | 0          | 0           | 0           |

c) The Quantity of treated Domestic Recycled & Reused in KL / Day.

| Month | October-24 | November-24 | December-24 |
|-------|------------|-------------|-------------|
|       | 8901       | 8985        | 7426        |

d) The Treated Domestic discharged into Murdhawa Nallah in KL / Day.

| Month | October-24 | November-24 | December-24 |
|-------|------------|-------------|-------------|
|       | 4990       | 3640        | 4899        |

e) The analysis of the treated industrial effluent and Sewage Effluent during the quarter done by approved laboratory is attached as Annexure- I.

डाक प्राप्ति रसीद  
प्राप्ति दिनांक 29.1.25  
प्राप्तकर्ता के हस्ताक्षर  
प्राप्तकर्ता निम्नलिखित बोर्ड, संस्थान  
REGISTERED OFFICE  
Ahura Centre, 1<sup>st</sup> Floor, B-Wing  
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: 2:

- 2) We have installed online Effluent emission monitoring system at our ETP & STP. The data is being transmitted to CPCB server regularly. Please find attached calibration certificate of installed OCEMS done on quarterly basis by M/s Axis Nano Technology as Annexure – II.

We hope you will please find the above in order.

Thanking you,

Yours faithfully,  
FOR HINDALCO INDUSTRIES LIMITED

  
Anil Singh  
A.G.M (Environment)

Cc: The Regional Officer,  
U.P. Pollution Control Board,  
House No. 162, Uttar Mohal  
Sonbhadra.

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April 17, 2025

To  
The Member Secretary,  
U.P. Pollution Control Board,  
T.C 12 - V, Vibhuti Khand,  
Gomtinagar,  
LUCKNOW

Sub: Progress Report under Section 21 / 22 of the Air (Prevention and Control Of Pollution) Act 1981 for the quarter (January'25 to March'25).

1. The industry is operating by maintaining all installed air pollution control system effectively and are in compliance for emission norms under EP Rules 1986.
  - a) Please find attached Ambient Air Monitoring reports for four locations monitored by an approved laboratory on quarterly basis as Annexure - I.
  - b) Stack emission monitoring is being done by an approved laboratory on quarterly basis as Annexure - II.
  - c) Calibration of installed OCEMS at our main process stacks (24 nos.) done by jointly with OEM & an approved laboratory on quarterly basis. The online emission data is being transmitted to CPCB server regularly. Please find attached Calibration report as Annexure -III.
  - d) Please find attached compliance report on recommendation of core committee constituted by Hon'ble NGT as Annexure - IV.
  - e) Ash generation and utilization for the quarter January'25 to March'25 as mentioned below.

| Month            | January'25 | February'25 | March'25  |
|------------------|------------|-------------|-----------|
| Generation (MT)  | 22904.450  | 22527.607   | 20713.336 |
| Utilization (MT) | 20194.850  | 25342.649   | 20737.010 |

उत्तर दिनांक 21/04/2025  
प्रमाणित है कि  
उपरोक्त प्रमाणित है कि

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Thanking you,

Yours faithfully,  
FOR HINDALCO INDUSTRIES LIMITED

Anil Singh  
A.G.M (Environment)

cc: The Regional Officer,  
U.P. Pollution Control Board,  
House No. 162, Uttar Mohal  
Sonebhora.

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April 17, 2025

The Member Secretary,  
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T.C 12 – V, Vibhuti Khand,  
Gomtinagar,  
LUCKNOW

**Sub: Progress Report under Section 25 / 26 of the Water (Prevention and Control of Pollution) Act 1974 for the quarter (January'25 to March'25).**

1) The Industrial Effluent Treatment Plant and the Domestic Effluent Treatment Plant were operated continuously during the quarter January'25 to March'25. The Details are as follows.

a) The Quantity of treated Effluent Recycled & Reused in KL / Day.

| Month | January-25 | February-25 | March-25 |
|-------|------------|-------------|----------|
|       | 4293       | 4130        | 4186     |

b) The Treated Effluent discharged into Murdhawa Nallah in KL / Day.

| Month | January-25 | February-25 | March-25 |
|-------|------------|-------------|----------|
|       | 0          | 0           | 0        |

c) The Quantity of treated Domestic Recycled & Reused in KL / Day.

| Month | January-25 | February-25 | March-25 |
|-------|------------|-------------|----------|
|       | 7018       | 6337        | 6377     |

d) The Treated Domestic discharged into Murdhawa Nallah in KL / Day.

| Month | January-25 | February-25 | March-25 |
|-------|------------|-------------|----------|
|       | 3763       | 4110        | 6302     |

The Analysis of the treated industrial effluent and Sewage Effluent during the quarter done by approved laboratory is attached as Annexure – I.

बोर्ड प्रमुख, यूपी  
प्रादिकर्षण बोर्ड, लखनऊ  
21/04/2025

....1

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- 2) We have installed online Effluent emission monitoring system at our ETP & STP. The data is being transmitted to CPCB server regularly. Please find attached calibration certificate of installed OCEMS done on quarterly basis by M/s Axis Nano Technology as Annexure – II.

We hope you will please find the above in order.

Thanking you,

Yours faithfully,  
FOR HINDALCO INDUSTRIES LIMITED

  
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A.G.M (Environment)

Cc: The Regional Officer,  
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House No. 162, Uttar Mohal  
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# TEST REPORT

## Prakriti Consultants Services

Category 'A' QCI-NABET Accredited EIA Consultant Organization  
An Approved Laboratory From MoEF - CC & Uttar Pradesh Pollution Control Board  
(An ISO 14001:2015, ISO 9001:2015 and ISO 45001:2018 Certified Organization)  
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GSTIN - 09AAJFP5925G1ZY



### Stack Emission Data and Analytical Results of Baking Furnace

R-TC824125000000862

| Report No.                 | Reference No.                                                        | Issue Date               |
|----------------------------|----------------------------------------------------------------------|--------------------------|
| S/SF/20/2025               | PCS/HIL/03/2025                                                      | 03/04/2025               |
| Name & address of Industry | M/s Hindalco Industries Limited, PO- Renukoot, Dist- Sonbhadra (UP). |                          |
| Type of Industry           | Aluminium Industry                                                   | 7. Method of Sampling    |
| Sample collected by        | Mr. Umakant & Mr. Shubham                                            | 8. Date of sampling      |
| Weather Condition          | Clear Sky                                                            | 9. Sample receipt in lab |
| Sampling Location          | Baking Furnace-4                                                     | 10. Date of Analysis     |
| Lab Code                   | PCS25/32/418                                                         | 11. Sample Analyzed By   |
|                            |                                                                      | Value                    |
| No.                        | Particulars                                                          | Baking Furnace-4         |
| 1.                         | Duct Attached to                                                     | 206.80                   |
| 2.                         | Aluminium Production in MT/Day                                       | Circular                 |
| 3.                         | Type of Stack                                                        | 44.5                     |
| 4.                         | Stack height from Ground(m)                                          | Circular                 |
| 5.                         | Type of Duct                                                         | 361.292                  |
| 6.                         | Quantity of Fuel Used (Lit/hr)                                       | M.S. with B.L.           |
| 7.                         | Material of Construction of duct                                     | 2.0                      |
| 8.                         | Diameter of Stack(m)                                                 | 30                       |
| 9.                         | Sampling Duration                                                    | 742                      |
| 10.                        | Atmospheric Pressure(mm Hg)                                          | 303                      |
| 11.                        | Atmospheric temperature( <sup>o</sup> K)                             | 331                      |
| 12.                        | Flue Gas temperature( <sup>o</sup> K)                                | 9.7                      |
| 13.                        | Flue Gas Exit Velocity(m/s)                                          | 148579.3                 |
| 14.                        | Flue Gas Exit Volume (Nm <sup>3</sup> /h)                            |                          |
|                            |                                                                      | Result                   |
|                            |                                                                      | Standard                 |
|                            |                                                                      | Method                   |
|                            | Pollutants Concentration                                             |                          |
|                            | PM (mg/Nm <sup>3</sup> )                                             | 35.9                     |
|                            | SO <sub>2</sub> (mg/Nm <sup>3</sup> )                                | 152.3                    |
|                            | NO <sub>x</sub> (mg/Nm <sup>3</sup> )                                | 35.7                     |
|                            | CO (mg/Nm <sup>3</sup> )                                             | 651                      |
|                            | Gaseous Fluoride (mg/Nm <sup>3</sup> )                               | 1.51                     |
|                            | Total F <sub>2</sub> (Kg/T) of Aluminium                             | 0.027                    |

\*The Environment (protection) Rules, 1986 Page No. 430 Point No. 36

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Authorized Signatory

(Dr. Divya Misra)  
Managing Director

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GSTIN: 09AAJFP5925G1ZY

## Stack Emission Data and Analytical Results of Baking Furnace

| Report No.                 | Reference No.                                                        | Issue Date               |
|----------------------------|----------------------------------------------------------------------|--------------------------|
| CS/SE/20(a)/2025           | PCS/III/03/2025                                                      | 03/04/2025               |
| Name & address of Industry | M/s Hindalco Industries Limited, PO- Renukoot, Dist- Sonbhadra (UP). |                          |
| 1. Type of Industry        | Aluminium Industry                                                   | 7. Method of Sampling    |
| 2. Sample collected by     | Mr. Umakant & Mr. Shubham                                            | 8. Date of sampling      |
| 3. Weather Condition       | Clear Sky                                                            | 9. Sample receipt in lab |
| 4. Sampling Location       | Baking Furnace-4                                                     | 10. Date of Analysis     |
| 5. Lab Code                | PCS25/32/418                                                         | 11. Sample Analyzed By   |
| S. No.                     | Particulars                                                          | Value                    |
| 1.                         | Duct Attached to                                                     | Baking Furnace-4         |
| 2.                         | Aluminium Production in MT/Day                                       | 206.80                   |
| 3.                         | Type of Stack                                                        | Circular                 |
| 4.                         | Stack height from Ground(m)                                          | 44.5                     |
| 5.                         | Type of Duct                                                         | Circular                 |
| 6.                         | Quantity of Fuel Used (Lit/hr)                                       | 361.292                  |
| 7.                         | Material of Construction of duct                                     | M.S. with B.L.           |
| 8.                         | Diameter of Stack(m)                                                 | 2.0                      |
| 9.                         | Sampling Duration                                                    | 30                       |
| 10.                        | Atmospheric Pressure(mmHg)                                           | 742                      |
| 11.                        | Atmospheric temperature( <sup>o</sup> K)                             | 303                      |
| 12.                        | Flue Gas temperature( <sup>o</sup> K)                                | 331                      |
| 13.                        | Flue Gas Exist Velocity(m/s)                                         | 9.7                      |
| 14.                        | Flue Gas Exit Volume (Nm <sup>3</sup> /h)                            | 148579.3                 |
| Pollutants Concentration   |                                                                      |                          |
|                            | P.F (%)                                                              | Result Standard Method   |
|                            | P.F (mg/Nm <sup>3</sup> )                                            | 1.49 - Calculation       |
|                            | PAH (µg/Nm <sup>3</sup> )                                            | 0.53 - Calculation       |
|                            |                                                                      | 32.1 - GC-FID            |

\*The Environment (protection) Rules, 1986 Page No. 430 Point No. 36

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(Dr. Divya Misra)  
Managing Director

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# TEST REPORT

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### Stack Emission Data and Analytical Results of Baking Furnace

ULR-TC82412500000863

| Report No.                    | Reference No.                                                        | Issue Date               |
|-------------------------------|----------------------------------------------------------------------|--------------------------|
| PCS/SE/21/2025                | PCS/III/03/2025                                                      | 03/04/2025               |
| 3. Name & address of Industry | M/s Hindalco Industries Limited, PO- Renukoot, Dist- Sonbhadra (UP). |                          |
| 2. Type of Industry           | Aluminium Industry                                                   | 7. Method of Sampling    |
| 3. Sample collected by        | Mr. Umakant & Mr. Shubham                                            | 8. Date of sampling      |
| 4. Weather Condition          | Clear Sky                                                            | 9. Sample receipt in lab |
| 5. Sampling Location          | Baking Furnace-5                                                     | 10. Date of Analysis     |
| 6. Lab Code                   | PCS25/32/419                                                         | 11. Sample Analyzed By   |
|                               |                                                                      | Mr. Ajay Kumar           |

| S. No.                                   | Particulars                               | Value           |
|------------------------------------------|-------------------------------------------|-----------------|
| 1.                                       | Stack Attached to/APCS Installed          | Furnace-5 / FTP |
| 2.                                       | Aluminium Production in MT/Day            | 344.66          |
| 3.                                       | Type of Fuel Used                         | LSHS Premium    |
| 4.                                       | Stack height from Ground(m)               | 45.0            |
| 5.                                       | Height of Sampling Point (m)              | 34.0            |
| 6.                                       | Quantity of Fuel Used (Lit/hr)            | 529.833         |
| 7.                                       | Stack Area (m <sup>2</sup> )              | 3.14            |
| 8.                                       | Material of Construction of duct          | M.S. with B.L.  |
| 9.                                       | Dia meter of Stack(m)                     | 2.0             |
| 10.                                      | Sampling Duration                         | 30              |
| 11.                                      | Atmospheric Pressure(mmHg)                | 741             |
| 12.                                      | Atmospheric temperature( <sup>o</sup> K)  | 303             |
| 13.                                      | Flue Gas temperature( <sup>o</sup> K)     | 367             |
| 14.                                      | Flue Gas Exist Velocity(m/s)              | 10.9            |
| 15.                                      | Flue Gas Exit Volume (Nm <sup>3</sup> /h) | 136581.91       |
| Pollutants Concentration                 |                                           |                 |
|                                          | Result                                    | Standard        |
| PM (mg/Nm <sup>3</sup> )                 | 32.7                                      | 50              |
| SO <sub>2</sub> (mg/Nm <sup>3</sup> )    | 99.5                                      | -               |
| NO <sub>x</sub> (mg/Nm <sup>3</sup> )    | 28.2                                      | -               |
| CO (mg/Nm <sup>3</sup> )                 | 635                                       | -               |
| Gaseous Fluoride (mg/Nm <sup>3</sup> )   | 1.88                                      | -               |
| Total F <sub>2</sub> (Kg/T) of Aluminium | 0.017                                     | 0.3             |

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Authorized Signatory

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(Dr. Divya Misra)  
Managing Director

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Ground Water Board, Compliance of E.C., NOC from UPCLB, MoEF



## Stack Emission Data and Analytical Results of Baking Furnace

| Report No.                    | Reference No.                                                        | Issue Date                                     |
|-------------------------------|----------------------------------------------------------------------|------------------------------------------------|
| PCS/SE/21(a)/2025             | PCS/HIL/03/2025                                                      | 03/04/2025                                     |
| 1. Name & address of Industry | M/s Hindalco Industries Limited, PO- Renukoot, Dist- Sonbhadra (UP). |                                                |
| 2. Type of Industry           | Aluminium Industry                                                   | 7. Method of Sampling                          |
| 3. Sample collected by        | Mr. Umakant & Mr. Shubham                                            | 8. Date of sampling                            |
| 4. Weather Condition          | Clear Sky                                                            | 9. Sample receipt in lab                       |
| 5. Sampling Location          | Baking Furnace-5                                                     | 10. Date of Analysis                           |
| 6. Lab Code                   | PCS25/32/419                                                         | 11. Sample Analyzed By                         |
|                               |                                                                      | Mr. Ajay Kumar                                 |
| S. No.                        | Particulars                                                          | Value                                          |
| 1.                            | Stack Attached to/APCS Installed                                     | Furnace-5 / FTP                                |
| 2.                            | Aluminium Production in MT/Day                                       | 344.66                                         |
| 3.                            | Type of Fuel Used                                                    | L.SHS Premium                                  |
| 4.                            | Stack height from Ground(m)                                          | 45.0                                           |
| 5.                            | Height of Sampling Point (m)                                         | 34.0                                           |
| 6.                            | Quantity of Fuel Used (Lit/hr)                                       | 529.833                                        |
| 7.                            | Stack Area (m <sup>2</sup> )                                         | 3.14                                           |
| 8.                            | Material of Construction of duct                                     | M.S. with B.L.                                 |
| 9.                            | Diameter of Stack(m)                                                 | 2.0                                            |
| 10.                           | Sampling Duration                                                    | 30                                             |
| 11.                           | Atmospheric Pressure(mm Hg)                                          | 741                                            |
| 12.                           | Atmospheric temperature( <sup>0</sup> K)                             | 303                                            |
| 13.                           | Flue Gas temperature( <sup>0</sup> K)                                | 367                                            |
| 14.                           | Flue Gas Exist Velocity(m/s)                                         | 10.9                                           |
| 15.                           | Flue Gas Exit Volume (Nm <sup>3</sup> /h)                            | 136581.91                                      |
|                               | <b>Pollutants Concentration</b>                                      |                                                |
|                               | P.F (%)                                                              | Result: 1.58, Standard: -, Method: Calculation |
|                               | P.F (mg/Nm <sup>3</sup> )                                            | Result: 0.52, Standard: -, Method: Calculation |
|                               | PAH (µg/Nm <sup>3</sup> )                                            | Result: 31.7, Standard: -, Method: GC-FID      |

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Authorized Signatory

(Dr. Divya Misra)  
Managing Director

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## Stack Emission Data and Analytical Results of Baking Furnace

ULR-TC824125000000864

| Report No.                    | Reference No.                                                        |                          | Issue Date              |
|-------------------------------|----------------------------------------------------------------------|--------------------------|-------------------------|
| PCS/SE/22/2025                | PCS/III/03/2025                                                      |                          | 03/04/2025              |
| 4. Name & address of Industry | M/s Hindalco Industries Limited, PO- Renukoot, Dist- Sonbhadra (UP). |                          |                         |
| 2. Type of Industry           | Aluminium Industry                                                   | 7. Method of Sampling    | PCS/WI/SAMP/20          |
| 3. Sample collected by        | Mr. Umakant & Mr. Shubham                                            | 8. Date of sampling      | 19/02/2025              |
| 4. Weather Condition          | Clear Sky                                                            | 9. Sample receipt in lab | 28/03/2025              |
| 5. Sampling Location          | Baking Furnace-6                                                     | 10. Date of Analysis     | 28/03/2025 - 03/04/2025 |
| 6. Lab Code                   | PCS25/32/420                                                         | 11. Sample Analyzed By   | Mr. Ajay Kumar          |
| S. No.                        | Particulars                                                          | Value                    |                         |
| 1.                            | Stack Attached to/APCS Installed                                     | Furnace-6 / FTP          |                         |
| 2.                            | Aluminium Production in MT/Day                                       | 597.41                   |                         |
| 3.                            | Type of Fuel Used                                                    | LSHS Premium             |                         |
| 4.                            | Stack height from Ground(m)                                          | 58.0                     |                         |
| 5.                            | Height of Sampling Point (m)                                         | 32.0                     |                         |
| 6.                            | Quantity of Fuel Used (Lit/hr)                                       | 831.833                  |                         |
| 7.                            | Stack Area (m <sup>2</sup> )                                         | 3.3                      |                         |
| 8.                            | Material of Construction of duct                                     | M.S. with B.L.           |                         |
| 9.                            | Diameter of Stack(m)                                                 | 2.05                     |                         |
| 10.                           | Sampling Duration                                                    | 30                       |                         |
| 11.                           | Atmospheric Pressure(mmHg)                                           | 740                      |                         |
| 12.                           | Atmospheric temperature( <sup>0</sup> K)                             | 303                      |                         |
| 13.                           | Flue Gas temperature( <sup>0</sup> K)                                | 395                      |                         |
| 14.                           | Flue Gas Exist Velocity(m/s)                                         | 11.8                     |                         |
| 15.                           | Flue Gas Exit Volume (Nm <sup>3</sup> /h)                            | 133746.53                |                         |
| Pollutants Concentration      |                                                                      | Result                   | Standard                |
|                               | PM (mg/Nm <sup>3</sup> )                                             | 23.5                     | 50                      |
|                               | SO <sub>2</sub> (mg/Nm <sup>3</sup> )                                | 97.6                     | -                       |
|                               | NO <sub>x</sub> (mg/Nm <sup>3</sup> )                                | 28.2                     | -                       |
|                               | CO(mg/Nm <sup>3</sup> )                                              | 671                      | -                       |
|                               | Gaseous Fluoride (mg/Nm <sup>3</sup> )                               | 1.91                     | -                       |
|                               | Total F <sub>2</sub> (Kg/T)of Aluminium                              | 0.010                    | 0.3                     |
|                               |                                                                      | Method                   |                         |
|                               |                                                                      | IS 11255 (Part1),1985    |                         |
|                               |                                                                      | IS 11255 (Part 2)        |                         |
|                               |                                                                      | IS 11255 (Part7)/TGA     |                         |
|                               |                                                                      | PCS/SOP/ST/03            |                         |
|                               |                                                                      | PCS/SOP/ST/09: 2021      |                         |
|                               |                                                                      | PCS/SOP/ST/09: 2021      |                         |

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Managing Director

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Ground Water Board, Compliance of E.C., SDC from UP PCB, MoEF



## Stack Emission Data and Analytical Results of Baking Furnace

| Report No.                    | Reference No.                                                        | Issue Date               |
|-------------------------------|----------------------------------------------------------------------|--------------------------|
| PCS/SE/22(a)/2025             | PCS/HIL/03/2025                                                      | 03/04/2025               |
| 1. Name & address of Industry | M/s Hindalco Industries Limited, PO- Renukoot, Dist- Sonbhadra (UP). |                          |
| 2. Type of Industry           | Aluminium Industry                                                   | 7. Method of Sampling    |
| 3. Sample collected by        | Mr. Umakant & Mr. Shubham                                            | 8. Date of sampling      |
| 4. Weather Condition          | Clear Sky                                                            | 9. Sample receipt in lab |
| 5. Sampling Location          | Baking Furnace-6                                                     | 10. Date of Analysis     |
| 6. Lab Code                   | PCS25/32/420                                                         | 11. Sample Analyzed By   |
|                               |                                                                      | Mr. Ajay Kumar           |
| S.No.                         | Particulars                                                          | Value                    |
| 1.                            | Stack Attached to/APCS Installed                                     | Furnace-6 / FTP          |
| 2.                            | Aluminium Production in MT/Day                                       | 597.41                   |
| 3.                            | Type of Fuel Used                                                    | LSHS Premium             |
| 4.                            | Stack height from Ground(m)                                          | 58.0                     |
| 5.                            | Height of Sampling Point (m)                                         | 32.0                     |
| 6.                            | Quantity of Fuel Used (Lit/hr)                                       | 831.833                  |
| 7.                            | Stack Area (m <sup>2</sup> )                                         | 3.3                      |
| 8.                            | Material of Construction of duct                                     | M.S. with B.L.           |
| 9.                            | Diameter of Stack(m)                                                 | 2.05                     |
| 10.                           | Sampling Duration                                                    | 30                       |
| 11.                           | Atmospheric Pressure(mmHg)                                           | 740                      |
| 12.                           | Atmospheric temperature( <sup>o</sup> K)                             | 303                      |
| 13.                           | Flue Gas temperature( <sup>o</sup> K)                                | 395                      |
| 14.                           | Flue Gas Exist Velocity(m/s)                                         | 11.8                     |
| 15.                           | Flue Gas Exit Volume (Nm <sup>3</sup> /h)                            | 133746.53                |
| Pollutants Concentration      |                                                                      | Result                   |
|                               | P.F (%)                                                              | 1.61                     |
|                               | P.F (mg/Nm <sup>3</sup> )                                            | 0.38                     |
|                               | PAH (µg/Nm <sup>3</sup> )                                            | 34.2                     |
|                               |                                                                      | Standard                 |
|                               |                                                                      | Method                   |
|                               |                                                                      | Calculation              |
|                               |                                                                      | Calculation              |
|                               |                                                                      | GC-FID                   |

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Managing Director

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GSTIN :- 09AAJFP5925G1ZY



### Stack Emission Data and Analytical Results of DSS in Pot Room

ULR- TC824125000000849

| Report No.                              | Reference No.                                                        |                          | Issue Date             |
|-----------------------------------------|----------------------------------------------------------------------|--------------------------|------------------------|
| PCS/SE/01/2025                          | PCS/HIL/03/2025                                                      |                          | 03/04/2025             |
| 1. Name & address of Industry           | M/s Hindalco Industries Limited, PO- Renukoot, Dist- Sonbhadra (UP). |                          |                        |
| 2. Type of Industry                     | Aluminium Industry                                                   | 7. Method of Sampling    | PCS/WI/SAMP/20         |
| 3. Sample collected by                  | Mr. Umakant & Mr. Shubham                                            | 8. Date of sampling      | 18/02/2025             |
| 4. Weather Condition                    | Clear Sky                                                            | 9. Sample receipt in lab | 28/03/2025             |
| 5. Sampling Location                    | Line I / DSS                                                         | 10. Date of Analysis     | 28/03/2025- 03/04/2025 |
| 6. Lab Code                             | PCS25/32/403                                                         | 11. Sample Analyzed By   | Mr. Ajay Kumar         |
| S. No.                                  | Particulars                                                          | Value                    |                        |
| 1.                                      | Duct Attached to                                                     | Line I / DSS             |                        |
| 2.                                      | Aluminium Production in MT/Day                                       | 84.50                    |                        |
| 3.                                      | Stack height from Ground(m)                                          | 34.0                     |                        |
| 4.                                      | Stack Area (m <sup>2</sup> )                                         | 10.18                    |                        |
| 5.                                      | Material of Construction of duct                                     | M.S.                     |                        |
| 6.                                      | Diameter of Stack(m)                                                 | 3.6                      |                        |
| 7.                                      | Sampling Duration                                                    | 30                       |                        |
| 8.                                      | Atmospheric Pressure(mmHg)                                           | 742                      |                        |
| 9.                                      | Atmospheric temperature( <sup>o</sup> K)                             | 304                      |                        |
| 10.                                     | Flue Gas temperature( <sup>o</sup> K)                                | 358                      |                        |
| 11.                                     | Flue Gas Exist Velocity(m/s)                                         | 12.1                     |                        |
| 12.                                     | Flue Gas Exit Volume (Nm <sup>3</sup> /h)                            | 515433.25                |                        |
| Pollutants Concentration                |                                                                      | Result                   | Standard               |
| PM (mg/Nm <sup>3</sup> )                |                                                                      | 13.2                     | 150                    |
| SO <sub>2</sub> (mg/Nm <sup>3</sup> )   |                                                                      | 47.3                     | -                      |
| NO <sub>x</sub> (mg/Nm <sup>3</sup> )   |                                                                      | 33.4                     | -                      |
| CO(mg/Nm <sup>3</sup> )                 |                                                                      | 645                      | -                      |
| Gaseous Fluoride (mg/Nm <sup>3</sup> )  |                                                                      | 0.92                     | -                      |
| Total F <sub>2</sub> (Kg/T)of Aluminium |                                                                      | 0.124                    | 0.8                    |
|                                         |                                                                      |                          | IS 11255 (Part 1),1985 |
|                                         |                                                                      |                          | IS 11255 (Part 2)      |
|                                         |                                                                      |                          | IS 11255 (Part7)/FGA   |
|                                         |                                                                      |                          | PCS/SOP/ST/03          |
|                                         |                                                                      |                          | PCS/SOP/ST/09: 2021    |
|                                         |                                                                      |                          | PCS/SOP/ST/09: 2021    |

\*The Environment (protection) Rules,1986 Page No. 430 Point No. 36

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5. No Deviation as per the Standard Method

Authorized Signatory

(Dr. Divya Misra)  
Managing Director

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Tel: 0522- 4002545, Mobile: 09415518818,  
GSTIN :- 09AAJFP5925G1ZY

## Stack Emission Data and Analytical Results of DSS in Pot Room

| Report No.                    |                                           | Reference No.                                                        |              | Issue Date               |             |
|-------------------------------|-------------------------------------------|----------------------------------------------------------------------|--------------|--------------------------|-------------|
| PCS/SE/01(a)/2025             |                                           | PCS/HIL/03/2025                                                      |              | 03/04/2025               |             |
| 1. Name & address of Industry |                                           | M/s Hindalco Industries Limited, PO- Renukoot, Dist- Sonbhadra (UP). |              |                          |             |
| 2. Type of Industry           |                                           | Aluminium Industry                                                   |              | 7. Method of Sampling    |             |
| 3. Sample collected by        |                                           | Mr. Umakant & Mr. Shubham                                            |              | 8. Date of sampling      |             |
| 4. Weather Condition          |                                           | Clear Sky                                                            |              | 9. Sample receipt in lab |             |
| 5. Sampling Location          |                                           | Line 1 / DSS                                                         |              | 10. Date of Analysis     |             |
| 6. Lab Code                   |                                           | PCS25/32/403                                                         |              | 11. Sample Analyzed By   |             |
|                               |                                           |                                                                      |              | PCS/WI/SAMP/20           |             |
|                               |                                           |                                                                      |              | 18/02/2025               |             |
|                               |                                           |                                                                      |              | 28/03/2025               |             |
|                               |                                           |                                                                      |              | 28/03/2025– 03/04/2025   |             |
|                               |                                           |                                                                      |              | Mr. Ajay Kumar           |             |
| S. No.                        | Particulars                               |                                                                      | Value        |                          |             |
| 1.                            | Duct Attached to                          |                                                                      | Line 1 / DSS |                          |             |
| 2.                            | Aluminium Production in MT/Day            |                                                                      | 84.50        |                          |             |
| 3.                            | Stack height from Ground(m)               |                                                                      | 34.0         |                          |             |
| 4.                            | Stack Area (m <sup>2</sup> )              |                                                                      | 10.18        |                          |             |
| 5.                            | Material of Construction of duct          |                                                                      | M.S.         |                          |             |
| 6.                            | Diameter of Stack(m)                      |                                                                      | 3.6          |                          |             |
| 7.                            | Sampling Duration                         |                                                                      | 30           |                          |             |
| 8.                            | Atmospheric Pressure(mmHg)                |                                                                      | 742          |                          |             |
| 9.                            | Atmospheric temperature( <sup>o</sup> K)  |                                                                      | 304          |                          |             |
| 10.                           | Flue Gas temperature( <sup>o</sup> K)     |                                                                      | 358          |                          |             |
| 11.                           | Flue Gas Exist Velocity(m/s)              |                                                                      | 12.1         |                          |             |
| 12.                           | Flue Gas Exit Volume (Nm <sup>3</sup> /h) |                                                                      | 515433.25    |                          |             |
|                               | Pollutants Concentration                  |                                                                      | Result       | Standard                 | Method      |
|                               | P.F.(%)                                   |                                                                      | 1.80         | -                        | Calculation |
|                               | P.F.(mg/Nm <sup>3</sup> )                 |                                                                      | 0.24         | -                        | Calculation |

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Authorized Signatory

(Dr. Divya Misra)  
Managing Director

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## TEST REPORT Prakriti Consultants Services

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GSTIN :- 09AAJFP5925G1ZY



### Stack Emission Data and Analytical Results of DSS in Pot Room

ULR- TC82412500000850

| Report No.                    |                                           | Reference No.                                                         |                          | Issue Date             |                       |
|-------------------------------|-------------------------------------------|-----------------------------------------------------------------------|--------------------------|------------------------|-----------------------|
| PCS/SE/02/2025                |                                           | PCS/HIL/03/2025                                                       |                          | 03/04/2025             |                       |
| 1. Name & address of Industry |                                           | M/s Hindalco Industries Limited, PO- Renukoot, Dist- Sonebhadra (UP). |                          |                        |                       |
| 2. Type of Industry           |                                           | Aluminium Industry                                                    | 7. Method of Sampling    | PCS/WI/SAMP/20         |                       |
| 3. Sample collected by        |                                           | Mr. Umakant & Mr. Shubham                                             | 8. Date of sampling      | 17/02/2025             |                       |
| 4. Weather Condition          |                                           | Clear Sky                                                             | 9. Sample receipt in lab | 28/03/2025             |                       |
| 5. Sampling Location          |                                           | Line II / DSS                                                         | 10. Date of Analysis     | 28/03/2025– 03/04/2025 |                       |
| 6. Lab Code                   |                                           | PCS25/32/404                                                          | 11. Sample Analyzed By   | Mr. Ajay Kumar         |                       |
| S. No.                        | Particulars                               |                                                                       | Value                    |                        |                       |
| 1.                            | Duct Attached to                          |                                                                       | Line II / DSS            |                        |                       |
| 2.                            | Aluminium Production in MT/Day            |                                                                       | 88.02                    |                        |                       |
| 3.                            | Stack height from Ground(m)               |                                                                       | 34.0                     |                        |                       |
| 4.                            | Stack Area (m <sup>2</sup> )              |                                                                       | 10.18                    |                        |                       |
| 5.                            | Material of Construction of duct          |                                                                       | M.S.                     |                        |                       |
| 6.                            | Diameter of Stack(m)                      |                                                                       | 3.6                      |                        |                       |
| 7.                            | Sampling Duration                         |                                                                       | 30                       |                        |                       |
| 8.                            | Atmospheric Pressure(mmHg)                |                                                                       | 740                      |                        |                       |
| 9.                            | Atmospheric temperature( <sup>0</sup> K)  |                                                                       | 303                      |                        |                       |
| 10.                           | Flue Gas temperature( <sup>0</sup> K)     |                                                                       | 361                      |                        |                       |
| 11.                           | Flue Gas Exist Velocity(m/s)              |                                                                       | 10.9                     |                        |                       |
| 12.                           | Flue Gas Exit Volume (Nm <sup>3</sup> /h) |                                                                       | 453276.41                |                        |                       |
|                               | Pollutants Concentration                  |                                                                       | Result                   | Standard               | Method                |
|                               | PM (mg/Nm <sup>3</sup> )                  |                                                                       | 10.9                     | 150                    | IS 11255 (Part1),1985 |
|                               | SO <sub>2</sub> (mg/Nm <sup>3</sup> )     |                                                                       | 48.1                     | -                      | IS 11255 (Part 2)     |
|                               | NOx (mg/Nm <sup>3</sup> )                 |                                                                       | 32.4                     | -                      | IS 11255 (Part7)/FGA  |
|                               | CO(mg/Nm <sup>3</sup> )                   |                                                                       | 656                      | -                      | PCS/SOP/ST/03         |
|                               | Gaseous Fluoride (mg/Nm <sup>3</sup> )    |                                                                       | 0.96                     | -                      | PCS/SOP/ST/09: 2021   |
|                               | Total F <sub>2</sub> (Kg/T)of Aluminium   |                                                                       | 0.107                    | 0.8                    | PCS/SOP/ST/09: 2021   |

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Authorized Signatory

(Dr. Divya Misra)  
Managing Director

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GSTIN :- 09AAJFP5925G1ZY

## Stack Emission Data and Analytical Results of DSS in Pot Room

| Report No.                    |                                           | Reference No.                                                         |               | Issue Date               |             |
|-------------------------------|-------------------------------------------|-----------------------------------------------------------------------|---------------|--------------------------|-------------|
| PCS/SE/02(a)/2025             |                                           | PCS/HIL/03/2025                                                       |               | 03/04/2025               |             |
| 1. Name & address of Industry |                                           | M/s Hindalco Industries Limited, PO- Renukoot, Dist- Sonebhadra (UP). |               |                          |             |
| 2. Type of Industry           |                                           | Aluminium Industry                                                    |               | 7. Method of Sampling    |             |
| 3. Sample collected by        |                                           | Mr. Umakant & Mr. Shubham                                             |               | 8. Date of sampling      |             |
| 4. Weather Condition          |                                           | Clear Sky                                                             |               | 9. Sample receipt in lab |             |
| 5. Sampling Location          |                                           | Line II / DSS                                                         |               | 10. Date of Analysis     |             |
| 6. Lab Code                   |                                           | PCS25/32/404                                                          |               | 11. Sample Analyzed By   |             |
|                               |                                           |                                                                       |               | PCS/WI/SAMP/20           |             |
|                               |                                           |                                                                       |               | 17/02/2025               |             |
|                               |                                           |                                                                       |               | 28/03/2025               |             |
|                               |                                           |                                                                       |               | 28/03/2025– 03/04/2025   |             |
|                               |                                           |                                                                       |               | Mr. Ajay Kumar           |             |
| S. No.                        | Particulars                               |                                                                       | Value         |                          |             |
| 1.                            | Duct Attached to                          |                                                                       | Line II / DSS |                          |             |
| 2.                            | Aluminium Production in MT/Day            |                                                                       | 88.02         |                          |             |
| 3.                            | Stack height from Ground(m)               |                                                                       | 34.0          |                          |             |
| 4.                            | Stack Area (m <sup>2</sup> )              |                                                                       | 10.18         |                          |             |
| 5.                            | Material of Construction of duct          |                                                                       | M.S.          |                          |             |
| 6.                            | Diameter of Stack(m)                      |                                                                       | 3.6           |                          |             |
| 7.                            | Sampling Duration                         |                                                                       | 30            |                          |             |
| 8.                            | Atmospheric Pressure(mmHg)                |                                                                       | 740           |                          |             |
| 9.                            | Atmospheric temperature( <sup>o</sup> K)  |                                                                       | 303           |                          |             |
| 10.                           | Flue Gas temperature( <sup>o</sup> K)     |                                                                       | 361           |                          |             |
| 11.                           | Flue Gas Exist Velocity(m/s)              |                                                                       | 10.9          |                          |             |
| 12.                           | Flue Gas Exit Volume (Nm <sup>3</sup> /h) |                                                                       | 453276.41     |                          |             |
|                               | Pollutants Concentration                  |                                                                       | Result        | Standard                 | Method      |
|                               | P.F.(%)                                   |                                                                       | 1.91          | -                        | Calculation |
|                               | P.F.(mg/Nm <sup>3</sup> )                 |                                                                       | 0.21          | -                        | Calculation |

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## Stack Emission Data and Analytical Results of DSS in Pot Room

ULR- TC82412500000851

| Report No.                   |                                           | Reference No.                                                         |                          | Issue Date             |                       |
|------------------------------|-------------------------------------------|-----------------------------------------------------------------------|--------------------------|------------------------|-----------------------|
| PCS/SE/03/2025               |                                           | PCS/HIL/03/2025                                                       |                          | 03/04/2025             |                       |
| 1.Name & address of Industry |                                           | M/s Hindalco Industries Limited, PO- Renukoot, Dist- Sonebhadra (UP). |                          |                        |                       |
| 2. Type of Industry          |                                           | Aluminium Industry                                                    | 7. Method of Sampling    | PCS/WI/SAMP/20         |                       |
| 3. Sample collected by       |                                           | Mr. Umakant & Mr. Shubham                                             | 8. Date of sampling      | 17/02/2025             |                       |
| 4. Weather Condition         |                                           | Clear Sky                                                             | 9. Sample receipt in lab | 28/03/2025             |                       |
| 5. Sampling Location         |                                           | Line III / DSS                                                        | 10. Date of Analysis     | 28/03/2025– 03/04/2025 |                       |
| 6. Lab Code                  |                                           | PCS25/32/405                                                          | 11. Sample Analyzed By   | Mr. Ajay Kumar         |                       |
| S. No.                       | Particulars                               |                                                                       | Value                    |                        |                       |
| 1.                           | Duct Attached to                          |                                                                       | Line III / DSS           |                        |                       |
| 2.                           | Aluminium Production in MT/Day            |                                                                       | 83.20                    |                        |                       |
| 3.                           | Stack height from Ground(m)               |                                                                       | 34.0                     |                        |                       |
| 4.                           | Stack Area (m <sup>2</sup> )              |                                                                       | 10.18                    |                        |                       |
| 5.                           | Material of Construction of duct          |                                                                       | M.S.                     |                        |                       |
| 6.                           | Diameter of Stack(m)                      |                                                                       | 3.6                      |                        |                       |
| 7.                           | Sampling Duration                         |                                                                       | 30                       |                        |                       |
| 8.                           | Atmospheric Pressure(mmHg)                |                                                                       | 742                      |                        |                       |
| 9.                           | Atmospheric temperature( <sup>o</sup> K)  |                                                                       | 303                      |                        |                       |
| 10.                          | Flue Gas temperature( <sup>o</sup> K)     |                                                                       | 357                      |                        |                       |
| 11.                          | Flue Gas Exist Velocity(m/s)              |                                                                       | 12.0                     |                        |                       |
| 12.                          | Flue Gas Exit Volume (Nm <sup>3</sup> /h) |                                                                       | 512917.53                |                        |                       |
|                              | Pollutants Concentration                  |                                                                       | Result                   | Standard               | Method                |
|                              | PM (mg/Nm <sup>3</sup> )                  |                                                                       | 11.1                     | 150                    | IS 11255 (Part1),1985 |
|                              | SO <sub>2</sub> (mg/Nm <sup>3</sup> )     |                                                                       | 46.0                     | -                      | IS 11255 (Part 2)     |
|                              | NOx (mg/Nm <sup>3</sup> )                 |                                                                       | 30.5                     | -                      | IS 11255 (Part7)/FGA  |
|                              | CO(mg/Nm <sup>3</sup> )                   |                                                                       | 650                      | -                      | PCS/SOP/ST/03         |
|                              | Gaseous Fluoride (mg/Nm <sup>3</sup> )    |                                                                       | 0.91                     | -                      | PCS/SOP/ST/09: 2021   |
|                              | Total F <sub>2</sub> (Kg/T)of Aluminium   |                                                                       | 0.121                    | 0.8                    | PCS/SOP/ST/09: 2021   |

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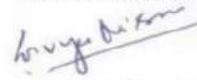
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## Stack Emission Data and Analytical Results of DSS in Pot Room

| Report No.                    |                                           | Reference No.                                                        |                          | Issue Date             |             |
|-------------------------------|-------------------------------------------|----------------------------------------------------------------------|--------------------------|------------------------|-------------|
| PCS/SE/03(a)/2025             |                                           | PCS/HIL/03/2025                                                      |                          | 03/04/2025             |             |
| 1. Name & address of Industry |                                           | M/s Hindalco Industries Limited, PO- Renukoot, Dist- Sonbhadra (UP). |                          |                        |             |
| 2. Type of Industry           |                                           | Aluminium Industry                                                   | 7. Method of Sampling    | PCS/WI/SAMP/20         |             |
| 3. Sample collected by        |                                           | Mr. Umakant & Mr. Shubham                                            | 8. Date of sampling      | 17/02/2025             |             |
| 4. Weather Condition          |                                           | Clear Sky                                                            | 9. Sample receipt in lab | 28/03/2025             |             |
| 5. Sampling Location          |                                           | Line III / DSS                                                       | 10. Date of Analysis     | 28/03/2025– 03/04/2025 |             |
| 6. Lab Code                   |                                           | PCS25/32/405                                                         | 11. Sample Analyzed By   | Mr. Ajay Kumar         |             |
| S. No.                        | Particulars                               |                                                                      | Value                    |                        |             |
| 1.                            | Duct Attached to                          |                                                                      | Line III / DSS           |                        |             |
| 2.                            | Aluminium Production in MT/Day            |                                                                      | 83.20                    |                        |             |
| 3.                            | Stack height from Ground(m)               |                                                                      | 34.0                     |                        |             |
| 4.                            | Stack Area (m <sup>2</sup> )              |                                                                      | 10.18                    |                        |             |
| 5.                            | Material of Construction of duct          |                                                                      | M.S.                     |                        |             |
| 6.                            | Diameter of Stack(m)                      |                                                                      | 3.6                      |                        |             |
| 7.                            | Sampling Duration                         |                                                                      | 30                       |                        |             |
| 8.                            | Atmospheric Pressure(mmHg)                |                                                                      | 742                      |                        |             |
| 9.                            | Atmospheric temperature( <sup>o</sup> K)  |                                                                      | 303                      |                        |             |
| 10.                           | Flue Gas temperature( <sup>o</sup> K)     |                                                                      | 357                      |                        |             |
| 11.                           | Flue Gas Exist Velocity(m/s)              |                                                                      | 12.0                     |                        |             |
| 12.                           | Flue Gas Exit Volume (Nm <sup>3</sup> /h) |                                                                      | 512917.53                |                        |             |
|                               | Pollutants Concentration                  |                                                                      | Result                   | Standard               | Method      |
|                               | P.F.(%)                                   |                                                                      | 1.95                     | -                      | Calculation |
|                               | P.F.(mg/Nm <sup>3</sup> )                 |                                                                      | 0.22                     | -                      | Calculation |

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Managing Director

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GSTIN :- 09AAJFP5925G1ZY

## Stack Emission Data and Analytical Results of DSS in Pot Room

| Report No.                    | Reference No.                                                         |                          | Issue Date             |             |
|-------------------------------|-----------------------------------------------------------------------|--------------------------|------------------------|-------------|
| PCS/SE/04(a)/2025             | PCS/HIL/03/2025                                                       |                          | 03/04/2025             |             |
| 1. Name & address of Industry | M/s Hindalco Industries Limited, PO- Renukoot, Dist- Sonebhadra (UP). |                          |                        |             |
| 2. Type of Industry           | Aluminium Industry                                                    | 7. Method of Sampling    | PCS/WI/SAMP/20         |             |
| 3. Sample collected by        | Mr. Umakant & Mr. Shubham                                             | 8. Date of sampling      | 04/03/2025             |             |
| 4. Weather Condition          | Clear Sky                                                             | 9. Sample receipt in lab | 28/03/2025             |             |
| 5. Sampling Location          | Line-IV Phase - II / DSS                                              | 10. Date of Analysis     | 28/03/2025– 03/04/2025 |             |
| 6. Lab Code                   | PCS25/32/408                                                          | 11. Sample Analyzed By   | Mr. Ajay Kumar         |             |
| S. No.                        | Particulars                                                           | Value                    |                        |             |
| 1.                            | Duct Attached to                                                      | Line-IV Phase - II / DSS |                        |             |
| 2.                            | Aluminium Production in MT/Day                                        | 100.37                   |                        |             |
| 3.                            | Stack height from Ground(m)                                           | 34.0                     |                        |             |
| 4.                            | Stack Area (m <sup>2</sup> )                                          | 7.07                     |                        |             |
| 5.                            | Material of Construction of duct                                      | M.S.                     |                        |             |
| 6.                            | Diameter of Stack(m)                                                  | 3.0                      |                        |             |
| 7.                            | Sampling Duration                                                     | 30                       |                        |             |
| 8.                            | Atmospheric Pressure(mmHg)                                            | 740                      |                        |             |
| 9.                            | Atmospheric temperature( <sup>o</sup> K)                              | 304                      |                        |             |
| 10.                           | Flue Gas temperature( <sup>o</sup> K)                                 | 360                      |                        |             |
| 11.                           | Flue Gas Exist Velocity(m/s)                                          | 11.4                     |                        |             |
| 12.                           | Flue Gas Exit Volume (Nm <sup>3</sup> /h)                             | 334107.73                |                        |             |
|                               | Pollutants Concentration                                              | Result                   | Standard               | Method      |
|                               | P.F.(%)                                                               | 1.92                     | -                      | Calculation |
|                               | P.F.(mg/Nm <sup>3</sup> )                                             | 0.20                     | -                      | Calculation |

\*The Environment (protection) Rules,1986 Page No. 430 Point No. 36

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Authorized Signatory

(Dr. Divya Misra)  
Managing Director

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Ground Water Board, Compliance of E.C., NOC from UP/PCB, MoEF



### Stack Emission Data and Analytical Results of DSS in Pot Room

ULR- TC82412500000852

| Report No.                   |                                           | Reference No.                                                         |                          | Issue Date             |                       |
|------------------------------|-------------------------------------------|-----------------------------------------------------------------------|--------------------------|------------------------|-----------------------|
| PCS/SE/05/2025               |                                           | PCS/HIL/03/2025                                                       |                          | 03/04/2025             |                       |
| 1.Name & address of Industry |                                           | M/s Hindalco Industries Limited, PO- Renukoot, Dist- Sonebhadra (UP). |                          |                        |                       |
| 2. Type of Industry          |                                           | Aluminium Industry                                                    | 7. Method of Sampling    | PCS/WI/SAMP/20         |                       |
| 3. Sample collected by       |                                           | Mr. Umakant & Mr. Shubham                                             | 8. Date of sampling      | 03/03/2025             |                       |
| 4. Weather Condition         |                                           | Clear Sky                                                             | 9. Sample receipt in lab | 28/03/2025             |                       |
| 5. Sampling Location         |                                           | Line-IV Phase - I / DSS                                               | 10. Date of Analysis     | 28/03/2025– 03/04/2025 |                       |
| 6. Lab Code                  |                                           | PCS25/32/407                                                          | 11. Sample Analyzed By   | Mr. Ajay Kumar         |                       |
| S. No.                       | Particulars                               |                                                                       | Value                    |                        |                       |
| 1.                           | Duct Attached to                          |                                                                       | Line-IV Phase - I / DSS  |                        |                       |
| 2.                           | Aluminium Production in MT/Day            |                                                                       | 8.59                     |                        |                       |
| 3.                           | Stack height from Ground(m)               |                                                                       | 34.0                     |                        |                       |
| 4.                           | Stack Area (m <sup>2</sup> )              |                                                                       | 2.54                     |                        |                       |
| 5.                           | Material of Construction of duct          |                                                                       | M.S.                     |                        |                       |
| 6.                           | Diameter of Stack(m)                      |                                                                       | 1.8                      |                        |                       |
| 7.                           | Sampling Duration                         |                                                                       | 30                       |                        |                       |
| 8.                           | Atmospheric Pressure(mmHg)                |                                                                       | 742                      |                        |                       |
| 9.                           | Atmospheric temperature( <sup>o</sup> K)  |                                                                       | 305                      |                        |                       |
| 10.                          | Flue Gas temperature( <sup>o</sup> K)     |                                                                       | 359                      |                        |                       |
| 11.                          | Flue Gas Exist Velocity(m/s)              |                                                                       | 12.7                     |                        |                       |
| 12.                          | Flue Gas Exit Volume (Nm <sup>3</sup> /h) |                                                                       | 134523.97                |                        |                       |
|                              | Pollutants Concentration                  |                                                                       | Result                   | Standard               | Method                |
|                              | PM (mg/Nm <sup>3</sup> )                  |                                                                       | 11.7                     | 150                    | IS 11255 (Part1),1985 |
|                              | SO <sub>2</sub> (mg/Nm <sup>3</sup> )     |                                                                       | 45.4                     | -                      | IS 11255 (Part 2)     |
|                              | NOx (mg/Nm <sup>3</sup> )                 |                                                                       | 31.5                     | -                      | IS 11255 (Part7)/FGA  |
|                              | CO(mg/Nm <sup>3</sup> )                   |                                                                       | 659                      | -                      | PCS/SOP/ST/03         |
|                              | Gaseous Fluoride (mg/Nm <sup>3</sup> )    |                                                                       | 0.88                     | -                      | PCS/SOP/ST/09: 2021   |
|                              | Total F <sub>2</sub> (Kg/T)of Aluminium   |                                                                       | 0.305                    | 0.8                    | PCS/SOP/ST/09: 2021   |

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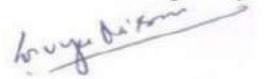
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Managing Director

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Tel: 0522- 4002545, Mobile: 09415518818,  
GSTIN :- 09AAJFP5925G1ZY

## Stack Emission Data and Analytical Results of DSS in Pot Room

| Report No.                    |                                           | Reference No.                                                        |                          | Issue Date             |             |
|-------------------------------|-------------------------------------------|----------------------------------------------------------------------|--------------------------|------------------------|-------------|
| PCS/SE/05(a)/2025             |                                           | PCS/HIL/03/2025                                                      |                          | 03/04/2025             |             |
| 1. Name & address of Industry |                                           | M/s Hindalco Industries Limited, PO- Renukoot, Dist- Sonbhadra (UP). |                          |                        |             |
| 2. Type of Industry           |                                           | Aluminium Industry                                                   | 7. Method of Sampling    | PCS/WI/SAMP/20         |             |
| 3. Sample collected by        |                                           | Mr. Umakant & Mr. Shubham                                            | 8. Date of sampling      | 03/03/2025             |             |
| 4. Weather Condition          |                                           | Clear Sky                                                            | 9. Sample receipt in lab | 28/03/2025             |             |
| 5. Sampling Location          |                                           | Line-IV Phase - I / DSS                                              | 10. Date of Analysis     | 28/03/2025– 03/04/2025 |             |
| 6. Lab Code                   |                                           | PCS25/32/407                                                         | 11. Sample Analyzed By   | Mr. Ajay Kumar         |             |
| S. No.                        | Particulars                               |                                                                      | Value                    |                        |             |
| 1.                            | Duct Attached to                          |                                                                      | Line-IV Phase - I / DSS  |                        |             |
| 2.                            | Aluminium Production in MT/Day            |                                                                      | 8.59                     |                        |             |
| 3.                            | Stack height from Ground(m)               |                                                                      | 34.0                     |                        |             |
| 4.                            | Stack Area (m <sup>2</sup> )              |                                                                      | 2.54                     |                        |             |
| 5.                            | Material of Construction of duct          |                                                                      | M.S.                     |                        |             |
| 6.                            | Diameter of Stack(m)                      |                                                                      | 1.8                      |                        |             |
| 7.                            | Sampling Duration                         |                                                                      | 30                       |                        |             |
| 8.                            | Atmospheric Pressure(mmHg)                |                                                                      | 742                      |                        |             |
| 9.                            | Atmospheric temperature( <sup>o</sup> K)  |                                                                      | 305                      |                        |             |
| 10.                           | Flue Gas temperature( <sup>o</sup> K)     |                                                                      | 359                      |                        |             |
| 11.                           | Flue Gas Exist Velocity(m/s)              |                                                                      | 12.7                     |                        |             |
| 12.                           | Flue Gas Exit Volume (Nm <sup>3</sup> /h) |                                                                      | 134523.97                |                        |             |
|                               | Pollutants Concentration                  |                                                                      | Result                   | Standard               | Method      |
|                               | P.F.(%)                                   |                                                                      | 1.94                     | -                      | Calculation |
|                               | P.F.(mg/Nm <sup>3</sup> )                 |                                                                      | 0.23                     | -                      | Calculation |

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### Stack Emission Data and Analytical Results of DSS in Pot Room

ULR- TC82412500000854

| Report No.                   |                                           | Reference No.                                                         |                           | Issue Date             |                       |
|------------------------------|-------------------------------------------|-----------------------------------------------------------------------|---------------------------|------------------------|-----------------------|
| PCS/SE/06/2025               |                                           | PCS/HIL/03/2025                                                       |                           | 03/04/2025             |                       |
| 1.Name & address of Industry |                                           | M/s Hindalco Industries Limited, PO- Renukoot, Dist- Sonebhadra (UP). |                           |                        |                       |
| 2. Type of Industry          |                                           | Aluminium Industry                                                    | 7. Method of Sampling     | PCS/WI/SAMP/20         |                       |
| 3. Sample collected by       |                                           | Mr. Umakant & Mr. Shubham                                             | 8. Date of sampling       | 03/03/2025             |                       |
| 4. Weather Condition         |                                           | Clear Sky                                                             | 9. Sample receipt in lab  | 28/03/2025             |                       |
| 5. Sampling Location         |                                           | Line-IV Phase - Old / DSS                                             | 10. Date of Analysis      | 28/03/2025– 03/04/2025 |                       |
| 6. Lab Code                  |                                           | PCS25/32/406                                                          | 11. Sample Analyzed By    | Mr. Ajay Kumar         |                       |
| S. No.                       | Particulars                               |                                                                       | Value                     |                        |                       |
| 1.                           | Duct Attached to                          |                                                                       | Line-IV Phase - Old / DSS |                        |                       |
| 2.                           | Aluminium Production in MT/Day            |                                                                       | 8.59                      |                        |                       |
| 3.                           | Stack height from Ground(m)               |                                                                       | 34.0                      |                        |                       |
| 4.                           | Stack Area (m <sup>2</sup> )              |                                                                       | 2.54                      |                        |                       |
| 5.                           | Material of Construction of duct          |                                                                       | M.S.                      |                        |                       |
| 6.                           | Diameter of Stack(m)                      |                                                                       | 1.8                       |                        |                       |
| 7.                           | Sampling Duration                         |                                                                       | 30                        |                        |                       |
| 8.                           | Atmospheric Pressure(mmHg)                |                                                                       | 742                       |                        |                       |
| 9.                           | Atmospheric temperature( <sup>o</sup> K)  |                                                                       | 304                       |                        |                       |
| 10.                          | Flue Gas temperature( <sup>o</sup> K)     |                                                                       | 357                       |                        |                       |
| 11.                          | Flue Gas Exist Velocity(m/s)              |                                                                       | 12.3                      |                        |                       |
| 12.                          | Flue Gas Exit Volume (Nm <sup>3</sup> /h) |                                                                       | 132158.66                 |                        |                       |
|                              | Pollutants Concentration                  |                                                                       | Result                    | Standard               | Method                |
|                              | PM (mg/Nm <sup>3</sup> )                  |                                                                       | 11.3                      | 150                    | IS 11255 (Part1),1985 |
|                              | SO <sub>2</sub> (mg/Nm <sup>3</sup> )     |                                                                       | 45.2                      | -                      | IS 11255 (Part 2)     |
|                              | NO <sub>x</sub> (mg/Nm <sup>3</sup> )     |                                                                       | 35.4                      | -                      | IS 11255 (Part7)/FGA  |
|                              | CO(mg/Nm <sup>3</sup> )                   |                                                                       | 650                       | -                      | PCS/SOP/ST/03         |
|                              | Gaseous Fluoride (mg/Nm <sup>3</sup> )    |                                                                       | 0.95                      | -                      | PCS/SOP/ST/09: 2021   |
|                              | Total F <sub>2</sub> (Kg/T)of Aluminium   |                                                                       | 0.312                     | 0.8                    | PCS/SOP/ST/09: 2021   |

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GSTIN :- 09AAJFP5925G1ZY

## Stack Emission Data and Analytical Results of DSS in Pot Room

| Report No.                    |                                           | Reference No.                                                        |                           | Issue Date |             |
|-------------------------------|-------------------------------------------|----------------------------------------------------------------------|---------------------------|------------|-------------|
| PCS/SE/06(a)/2025             |                                           | PCS/HIL/03/2025                                                      |                           | 03/04/2025 |             |
| 1. Name & address of Industry |                                           | M/s Hindalco Industries Limited, PO- Renukoot, Dist- Sonbhadra (UP). |                           |            |             |
| 2. Type of Industry           | Aluminium Industry                        | 7. Method of Sampling                                                | PCS/WI/SAMP/20            |            |             |
| 3. Sample collected by        | Mr. Umakant& Mr. Shubham                  | 8. Date of sampling                                                  | 03/03/2025                |            |             |
| 4. Weather Condition          | Clear Sky                                 | 9. Sample receipt in lab                                             | 28/03/2025                |            |             |
| 5. Sampling Location          | Line-IV Phase - Old / DSS                 | 10. Date of Analysis                                                 | 28/03/2025– 03/04/2025    |            |             |
| 6. Lab Code                   | PCS25/32/406                              | 11. Sample Analyzed By                                               | Mr. Ajay Kumar            |            |             |
| S. No.                        | Particulars                               |                                                                      | Value                     |            |             |
| 1.                            | Duct Attached to                          |                                                                      | Line-IV Phase - Old / DSS |            |             |
| 2.                            | Aluminium Production in MT/Day            |                                                                      | 8.59                      |            |             |
| 3.                            | Stack height from Ground(m)               |                                                                      | 34.0                      |            |             |
| 4.                            | Stack Area (m <sup>2</sup> )              |                                                                      | 2.54                      |            |             |
| 5.                            | Material of Construction of duct          |                                                                      | M.S.                      |            |             |
| 6.                            | Diameter of Stack(m)                      |                                                                      | 1.8                       |            |             |
| 7.                            | Sampling Duration                         |                                                                      | 30                        |            |             |
| 8.                            | Atmospheric Pressure(mmHg)                |                                                                      | 742                       |            |             |
| 9.                            | Atmospheric temperature( <sup>o</sup> K)  |                                                                      | 304                       |            |             |
| 10.                           | Flue Gas temperature( <sup>o</sup> K)     |                                                                      | 357                       |            |             |
| 11.                           | Flue Gas Exist Velocity(m/s)              |                                                                      | 12.3                      |            |             |
| 12.                           | Flue Gas Exit Volume (Nm <sup>3</sup> /h) |                                                                      | 132158.66                 |            |             |
|                               | Pollutants Concentration                  |                                                                      | Result                    | Standard   | Method      |
|                               | P.F.(%)                                   |                                                                      | 1.91                      | -          | Calculation |
|                               | P.F.(mg/Nm <sup>3</sup> )                 |                                                                      | 0.22                      | -          | Calculation |

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GSTIN :- 09AAJFP5925G1ZY



### Stack Emission Data and Analytical Results of DSS in Pot Room

ULR- TC82412500000855

| Report No.                              | Reference No.                                                        |                          | Issue Date             |
|-----------------------------------------|----------------------------------------------------------------------|--------------------------|------------------------|
| PCS/SE/07/2025                          | PCS/HIL/03/2025                                                      |                          | 03/04/2025             |
| 1.Name & address of Industry            | M/s Hindalco Industries Limited, PO- Renukoot, Dist- Sonbhadra (UP). |                          |                        |
| 2. Type of Industry                     | Aluminium Industry                                                   | 7. Method of Sampling    | PCS/WI/SAMP/20         |
| 3. Sample collected by                  | Mr. Umakant & Mr. Shubham                                            | 8. Date of sampling      | 24/02/2025             |
| 4. Weather Condition                    | Clear Sky                                                            | 9. Sample receipt in lab | 28/03/2025             |
| 5. Sampling Location                    | Line V / DSS                                                         | 10. Date of Analysis     | 28/03/2025- 03/04/2025 |
| 6. Lab Code                             | PCS25/32/409                                                         | 11. Sample Analyzed By   | Mr. Ajay Kumar         |
| S. No.                                  | Particulars                                                          | Value                    |                        |
| 1.                                      | Duct Attached to                                                     | Line V / DSS             |                        |
| 2.                                      | Aluminium Production in MT/Day                                       | 112.60                   |                        |
| 3.                                      | Stack height from Ground(m)                                          | 34.0                     |                        |
| 4.                                      | Stack Area (m <sup>2</sup> )                                         | 12.57                    |                        |
| 5.                                      | Material of Construction of duct                                     | M.S.                     |                        |
| 6.                                      | Diameter of Stack(m)                                                 | 4.0                      |                        |
| 7.                                      | Sampling Duration                                                    | 30                       |                        |
| 8.                                      | Atmospheric Pressure(mmHg)                                           | 740                      |                        |
| 9.                                      | Atmospheric temperature( <sup>0</sup> K)                             | 305                      |                        |
| 10.                                     | Flue Gas temperature( <sup>0</sup> K)                                | 362                      |                        |
| 11.                                     | Flue Gas Exist Velocity(m/s)                                         | 12.8                     |                        |
| 12.                                     | Flue Gas Exit Volume (Nm <sup>3</sup> /h)                            | 658624.78                |                        |
| Pollutants Concentration                |                                                                      | Result                   | Standard               |
| PM (mg/Nm <sup>3</sup> )                |                                                                      | 14.7                     | 150                    |
| SO <sub>2</sub> (mg/Nm <sup>3</sup> )   |                                                                      | 42.9                     | -                      |
| NO <sub>x</sub> (mg/Nm <sup>3</sup> )   |                                                                      | 33.2                     | -                      |
| CO(mg/Nm <sup>3</sup> )                 |                                                                      | 559                      | -                      |
| Gaseous Fluoride (mg/Nm <sup>3</sup> )  |                                                                      | 0.86                     | -                      |
| Total F <sub>2</sub> (Kg/T)of Aluminium |                                                                      | 0.118                    | 0.8                    |
|                                         |                                                                      |                          | PCS/SOP/ST/09: 2021    |

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GSTIN :- 09AAJFP5925G1ZY

## Stack Emission Data and Analytical Results of DSS in Pot Room

| Report No.                    | Reference No.                                                        | Issue Date               |
|-------------------------------|----------------------------------------------------------------------|--------------------------|
| PCS/SE/07(a)/2025             | PCS/HIL/03/2025                                                      | 03/04/2025               |
| 1. Name & address of Industry | M/s Hindalco Industries Limited, PO- Renukoot, Dist- Sonbhadra (UP). |                          |
| 2. Type of Industry           | Aluminium Industry                                                   | 7. Method of Sampling    |
| 3. Sample collected by        | Mr. Umakant & Mr. Shubham                                            | 8. Date of sampling      |
| 4. Weather Condition          | Clear Sky                                                            | 9. Sample receipt in lab |
| 5. Sampling Location          | Line V / DSS                                                         | 10. Date of Analysis     |
| 6. Lab Code                   | PCS25/32/409                                                         | 11. Sample Analyzed By   |
|                               |                                                                      | Mr. Ajay Kumar           |
| S. No.                        | Particulars                                                          | Value                    |
| 1.                            | Duct Attached to                                                     | Line V / DSS             |
| 2.                            | Aluminium Production in MT/Day                                       | 112.60                   |
| 3.                            | Stack height from Ground(m)                                          | 34.0                     |
| 4.                            | Stack Area (m <sup>2</sup> )                                         | 12.57                    |
| 5.                            | Material of Construction of duct                                     | M.S.                     |
| 6.                            | Diameter of Stack(m)                                                 | 4.0                      |
| 7.                            | Sampling Duration                                                    | 30                       |
| 8.                            | Atmospheric Pressure(mmHg)                                           | 740                      |
| 9.                            | Atmospheric temperature( <sup>o</sup> K)                             | 305                      |
| 10.                           | Flue Gas temperature( <sup>o</sup> K)                                | 362                      |
| 11.                           | Flue Gas Exist Velocity(m/s)                                         | 12.8                     |
| 12.                           | Flue Gas Exit Volume (Nm <sup>3</sup> /h)                            | 658624.78                |
|                               | Pollutants Concentration                                             |                          |
|                               | P.F.(%)                                                              | 1.88                     |
|                               | P.F.(mg/Nm <sup>3</sup> )                                            | 0.28                     |
|                               |                                                                      | Standard                 |
|                               |                                                                      | Method                   |
|                               |                                                                      | Calculation              |
|                               |                                                                      | Calculation              |

\*The Environment (protection) Rules,1986 Page No. 430 Point No. 36

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*(Signature)*

(Dr. Divya Misra)  
Managing Director

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## Stack Emission Data and Analytical Results of DSS in Pot Room

ULR- TC824125000000856

| Report No.                   | Reference No.                                                        | Issue Date               |
|------------------------------|----------------------------------------------------------------------|--------------------------|
| PCS/SE/08/2025               | PCS/HIL/03/2025                                                      | 03/04/2025               |
| 1.Name & address of Industry | M/s Hindalco Industries Limited, PO- Renukoot, Dist- Sonbhadra (UP). |                          |
| 2. Type of Industry          | Aluminium Industry                                                   | 7. Method of Sampling    |
| 3. Sample collected by       | Mr. Umakant & Mr. Shubham                                            | 8. Date of sampling      |
| 4. Weather Condition         | Clear Sky                                                            | 9. Sample receipt in lab |
| 5. Sampling Location         | Line VI / DSS                                                        | 10. Date of Analysis     |
| 6. Lab Code                  | PCS25/32/410                                                         | 11. Sample Analyzed By   |
|                              |                                                                      | Mr. Ajay Kumar           |
| S. No.                       | Particulars                                                          | Value                    |
| 1.                           | Duct Attached to                                                     | Line VI / DSS            |
| 2.                           | Aluminium Production in MT/Day                                       | 110.0                    |
| 3.                           | Stack height from Ground(m)                                          | 34.0                     |
| 4.                           | Stack Area (m <sup>2</sup> )                                         | 12.57                    |
| 5.                           | Material of Construction of duct                                     | M.S..                    |
| 6.                           | Diameter of Stack(m)                                                 | 4.0                      |
| 7.                           | Sampling Duration                                                    | 30                       |
| 8.                           | Atmospheric Pressure(mmHg)                                           | 742                      |
| 9.                           | Atmospheric temperature( <sup>0</sup> K)                             | 304                      |
| 10.                          | Flue Gas temperature( <sup>0</sup> K)                                | 368                      |
| 11.                          | Flue Gas Exist Velocity(m/s)                                         | 12.6                     |
| 12.                          | Flue Gas Exit Volume (Nm <sup>3</sup> /h)                            | 630738.22                |
| Pollutants Concentration     |                                                                      | Result                   |
|                              | PM (mg/Nm <sup>3</sup> )                                             | 13.5                     |
|                              | SO <sub>2</sub> (mg/Nm <sup>3</sup> )                                | 46.1                     |
|                              | NOx (mg/Nm <sup>3</sup> )                                            | 31.2                     |
|                              | CO(mg/Nm <sup>3</sup> )                                              | 665                      |
|                              | Gaseous Fluoride (mg/Nm <sup>3</sup> )                               | 0.89                     |
|                              | Total F <sub>2</sub> (Kg/T)of Aluminium                              | 0.118                    |
|                              |                                                                      | Standard                 |
|                              |                                                                      | 150                      |
|                              |                                                                      | -                        |
|                              |                                                                      | -                        |
|                              |                                                                      | -                        |
|                              |                                                                      | -                        |
|                              |                                                                      | PCS/SOP/ST/03            |
|                              |                                                                      | PCS/SOP/ST/09: 2021      |
|                              |                                                                      | PCS/SOP/ST/09: 2021      |

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Authorized Signatory

*Dr. Divya Misra*

(Dr. Divya Misra)  
Managing Director

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Tel: 0522- 4002545, Mobile: 09415518818,  
GSTIN :- 09AAJFP5925G1ZY

## Stack Emission Data and Analytical Results of DSS in Pot Room

| Report No.                    | Reference No.                                                         |                          | Issue Date             |             |
|-------------------------------|-----------------------------------------------------------------------|--------------------------|------------------------|-------------|
| PCS/SE/08(a)/2025             | PCS/HIL/03/2025                                                       |                          | 03/04/2025             |             |
| 1. Name & address of Industry | M/s Hindalco Industries Limited, PO- Renukoot, Dist- Sonebhadra (UP). |                          |                        |             |
| 2. Type of Industry           | Aluminium Industry                                                    | 7. Method of Sampling    | PCS/WI/SAMP/20         |             |
| 3. Sample collected by        | Mr. Umakant & Mr. Shubham                                             | 8. Date of sampling      | 25/02/2025             |             |
| 4. Weather Condition          | Clear Sky                                                             | 9. Sample receipt in lab | 28/03/2025             |             |
| 5. Sampling Location          | Line VI / DSS                                                         | 10. Date of Analysis     | 28/03/2025– 03/04/2025 |             |
| 6. Lab Code                   | PCS25/32/410                                                          | 11. Sample Analyzed By   | Mr. Ajay Kumar         |             |
| S. No.                        | Particulars                                                           | Value                    |                        |             |
| 1.                            | Duct Attached to                                                      | Line VI / DSS            |                        |             |
| 2.                            | Aluminium Production in MT/Day                                        | 110.0                    |                        |             |
| 3.                            | Stack height from Ground(m)                                           | 34.0                     |                        |             |
| 4.                            | Stack Area (m <sup>2</sup> )                                          | 12.57                    |                        |             |
| 5.                            | Material of Construction of duct                                      | M.S.                     |                        |             |
| 6.                            | Diameter of Stack(m)                                                  | 4.0                      |                        |             |
| 7.                            | Sampling Duration                                                     | 30                       |                        |             |
| 8.                            | Atmospheric Pressure(mmHg)                                            | 742                      |                        |             |
| 9.                            | Atmospheric temperature( <sup>o</sup> K)                              | 304                      |                        |             |
| 10.                           | Flue Gas temperature( <sup>o</sup> K)                                 | 368                      |                        |             |
| 11.                           | Flue Gas Exist Velocity(m/s)                                          | 12.6                     |                        |             |
| 12.                           | Flue Gas Exit Volume (Nm <sup>3</sup> /h)                             | 630738.22                |                        |             |
|                               | Pollutants Concentration                                              | Result                   | Standard               | Method      |
|                               | P.F.(%)                                                               | 1.92                     | -                      | Calculation |
|                               | P.F.(mg/Nm <sup>3</sup> )                                             | 0.26                     | -                      | Calculation |

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Managing Director

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## Stack Emission Data and Analytical Results of DSS in Pot Room

ULR- TC82412500000857

| Report No.                               | Reference No.                                                        |                          | Issue Date             |
|------------------------------------------|----------------------------------------------------------------------|--------------------------|------------------------|
| PCS/SE/09/2025                           | PCS/HIL/03/2025                                                      |                          | 03/04/2025             |
| 1. Name & address of Industry            | M/s Hindalco Industries Limited, PO- Renukoot, Dist- Sonbhadra (UP). |                          |                        |
| 2. Type of Industry                      | Aluminium Industry                                                   | 7. Method of Sampling    | PCS/WI/SAMP/20         |
| 3. Sample collected by                   | Mr. Umakant & Mr. Shubham                                            | 8. Date of sampling      | 25/02/2025             |
| 4. Weather Condition                     | Clear Sky                                                            | 9. Sample receipt in lab | 28/03/2025             |
| 5. Sampling Location                     | Line VII / DSS                                                       | 10. Date of Analysis     | 28/03/2025- 03/04/2025 |
| 6. Lab Code                              | PCS25/32/411                                                         | 11. Sample Analyzed By   | Mr. Ajay Kumar         |
| S. No.                                   | Particulars                                                          | Value                    |                        |
| 1.                                       | Duct Attached to                                                     | Line VII / DSS           |                        |
| 2.                                       | Aluminium Production in MT/Day                                       | 108.50                   |                        |
| 3.                                       | Stack height from Ground(m)                                          | 34.0                     |                        |
| 4.                                       | Stack Area (m <sup>2</sup> )                                         | 12.57                    |                        |
| 5.                                       | Material of Construction of duct                                     | M.S.                     |                        |
| 6.                                       | Diameter of Stack(m)                                                 | 4.0                      |                        |
| 7.                                       | Sampling Duration                                                    | 30                       |                        |
| 8.                                       | Atmospheric Pressure(mmHg)                                           | 742                      |                        |
| 9.                                       | Atmospheric temperature( <sup>0</sup> K)                             | 304                      |                        |
| 10.                                      | Flue Gas temperature( <sup>0</sup> K)                                | 370                      |                        |
| 11.                                      | Flue Gas Exist Velocity(m/s)                                         | 12.4                     |                        |
| 12.                                      | Flue Gas Exit Volume (Nm <sup>3</sup> /h)                            | 614044.29                |                        |
| Pollutants Concentration                 |                                                                      | Result                   | Standard               |
| PM (mg/Nm <sup>3</sup> )                 |                                                                      | 13.5                     | 150                    |
| SO <sub>2</sub> (mg/Nm <sup>3</sup> )    |                                                                      | 43.1                     | -                      |
| NO <sub>x</sub> (mg/Nm <sup>3</sup> )    |                                                                      | 29.7                     | -                      |
| CO(mg/Nm <sup>3</sup> )                  |                                                                      | 670                      | -                      |
| Gaseous Fluoride (mg/Nm <sup>3</sup> )   |                                                                      | 0.87                     | -                      |
| Total F <sub>2</sub> (Kg/T) of Aluminium |                                                                      | 0.115                    | 0.8                    |
|                                          |                                                                      |                          | PCS/SOP/ST/09: 2021    |

\*The Environment (protection) Rules, 1986 Page No. 430 Point No. 36

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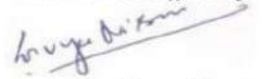
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Tel: 0522- 4002545, Mobile: 09415518818,  
GSTIN :- 09AAJFP5925G1ZY

## Stack Emission Data and Analytical Results of DSS in Pot Room

| Report No.                    |                                           | Reference No.                                                        |                          | Issue Date             |             |
|-------------------------------|-------------------------------------------|----------------------------------------------------------------------|--------------------------|------------------------|-------------|
| PCS/SE/09(a)/2025             |                                           | PCS/HIL/03/2025                                                      |                          | 03/04/2025             |             |
| 1. Name & address of Industry |                                           | M/s Hindalco Industries Limited, PO- Renukoot, Dist- Sonbhadra (UP). |                          |                        |             |
| 2. Type of Industry           |                                           | Aluminium Industry                                                   | 7. Method of Sampling    | PCS/WI/SAMP/20         |             |
| 3. Sample collected by        |                                           | Mr. Umakant & Mr. Shubham                                            | 8. Date of sampling      | 25/02/2025             |             |
| 4. Weather Condition          |                                           | Clear Sky                                                            | 9. Sample receipt in lab | 28/03/2025             |             |
| 5. Sampling Location          |                                           | Line VII / DSS                                                       | 10. Date of Analysis     | 28/03/2025– 03/04/2025 |             |
| 6. Lab Code                   |                                           | PCS25/32/411                                                         | 11. Sample Analyzed By   | Mr. Ajay Kumar         |             |
| S. No.                        | Particulars                               |                                                                      | Value                    |                        |             |
| 1.                            | Duct Attached to                          |                                                                      | Line VII / DSS           |                        |             |
| 2.                            | Aluminium Production in MT/Day            |                                                                      | 108.50                   |                        |             |
| 3.                            | Stack height from Ground(m)               |                                                                      | 34.0                     |                        |             |
| 4.                            | Stack Area (m <sup>2</sup> )              |                                                                      | 12.57                    |                        |             |
| 5.                            | Material of Construction of duct          |                                                                      | M.S.                     |                        |             |
| 6.                            | Diameter of Stack(m)                      |                                                                      | 4.0                      |                        |             |
| 7.                            | Sampling Duration                         |                                                                      | 30                       |                        |             |
| 8.                            | Atmospheric Pressure(mmHg)                |                                                                      | 742                      |                        |             |
| 9.                            | Atmospheric temperature( <sup>o</sup> K)  |                                                                      | 304                      |                        |             |
| 10.                           | Flue Gas temperature( <sup>o</sup> K)     |                                                                      | 370                      |                        |             |
| 11.                           | Flue Gas Exist Velocity(m/s)              |                                                                      | 12.4                     |                        |             |
| 12.                           | Flue Gas Exit Volume (Nm <sup>3</sup> /h) |                                                                      | 614044.29                |                        |             |
|                               | Pollutants Concentration                  |                                                                      | Result                   | Standard               | Method      |
|                               | P.F.(%)                                   |                                                                      | 1.89                     | -                      | Calculation |
|                               | P.F.(mg/Nm <sup>3</sup> )                 |                                                                      | 0.25                     | -                      | Calculation |

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GSTIN :- 09AAJFP5925G1ZY



### Stack Emission Data and Analytical Results of DSS in Pot Room

ULR- TC82412500000858

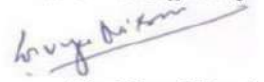
| Report No.                              | Reference No.                                                        |                          | Issue Date             |
|-----------------------------------------|----------------------------------------------------------------------|--------------------------|------------------------|
| PCS/SE/10/2025                          | PCS/HIL/03/2025                                                      |                          | 03/04/2025             |
| 1.Name & address of Industry            | M/s Hindalco Industries Limited, PO- Renukoot, Dist- Sonbhadra (UP). |                          |                        |
| 2. Type of Industry                     | Aluminium Industry                                                   | 7. Method of Sampling    | PCS/WI/SAMP/20         |
| 3. Sample collected by                  | Mr. Umakant & Mr. Shubham                                            | 8. Date of sampling      | 26/02/2025             |
| 4. Weather Condition                    | Clear Sky                                                            | 9. Sample receipt in lab | 28/03/2025             |
| 5. Sampling Location                    | Line VIII / DSS                                                      | 10. Date of Analysis     | 28/03/2025- 03/04/2025 |
| 6. Lab Code                             | PCS25/32/412                                                         | 11. Sample Analyzed By   | Mr. Ajay Kumar         |
| S. No.                                  | Particulars                                                          | Value                    |                        |
| 1.                                      | Duct Attached to                                                     | Line VIII / DSS          |                        |
| 2.                                      | Aluminium Production in MT/Day                                       | 114.20                   |                        |
| 3.                                      | Stack height from Ground(m)                                          | 34.0                     |                        |
| 4.                                      | Stack Area (m <sup>2</sup> )                                         | 12.57                    |                        |
| 5.                                      | Material of Construction of duct                                     | M.S.                     |                        |
| 6.                                      | Diameter of Stack(m)                                                 | 4.0                      |                        |
| 7.                                      | Sampling Duration                                                    | 30                       |                        |
| 8.                                      | Atmospheric Pressure(mmHg)                                           | 742                      |                        |
| 9.                                      | Atmospheric temperature( <sup>o</sup> K)                             | 304                      |                        |
| 10.                                     | Flue Gas temperature( <sup>o</sup> K)                                | 360                      |                        |
| 11.                                     | Flue Gas Exist Velocity(m/s)                                         | 13.2                     |                        |
| 12.                                     | Flue Gas Exit Volume (Nm <sup>3</sup> /h)                            | 686825.74                |                        |
| Pollutants Concentration                |                                                                      | Result                   | Standard               |
| PM (mg/Nm <sup>3</sup> )                |                                                                      | 12.0                     | 150                    |
| SO <sub>2</sub> (mg/Nm <sup>3</sup> )   |                                                                      | 49.6                     | -                      |
| NO <sub>x</sub> (mg/Nm <sup>3</sup> )   |                                                                      | 33.7                     | -                      |
| CO(mg/Nm <sup>3</sup> )                 |                                                                      | 555                      | -                      |
| Gaseous Fluoride (mg/Nm <sup>3</sup> )  |                                                                      | 0.93                     | -                      |
| Total F <sub>2</sub> (Kg/T)of Aluminium |                                                                      | 0.123                    | 0.8                    |

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Managing Director

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GSTIN :- 09AAJFP5925G1ZY

## Stack Emission Data and Analytical Results of DSS in Pot Room

| Report No.                    |                                           | Reference No.                                                         |                          | Issue Date             |             |
|-------------------------------|-------------------------------------------|-----------------------------------------------------------------------|--------------------------|------------------------|-------------|
| PCS/SE/10(a)/2025             |                                           | PCS/HIL/03/2025                                                       |                          | 03/04/2025             |             |
| 1. Name & address of Industry |                                           | M/s Hindalco Industries Limited, PO- Renukoot, Dist- Sonebhadra (UP). |                          |                        |             |
| 2. Type of Industry           |                                           | Aluminium Industry                                                    | 7. Method of Sampling    | PCS/WI/SAMP/20         |             |
| 3. Sample collected by        |                                           | Mr. Umakant & Mr. Shubham                                             | 8. Date of sampling      | 26/02/2025             |             |
| 4. Weather Condition          |                                           | Clear Sky                                                             | 9. Sample receipt in lab | 28/03/2025             |             |
| 5. Sampling Location          |                                           | Line VIII / DSS                                                       | 10. Date of Analysis     | 28/03/2025– 03/04/2025 |             |
| 6. Lab Code                   |                                           | PCS25/32/412                                                          | 11. Sample Analyzed By   | Mr. Ajay Kumar         |             |
| S. No.                        | Particulars                               |                                                                       | Value                    |                        |             |
| 1.                            | Duct Attached to                          |                                                                       | Line VIII / DSS          |                        |             |
| 2.                            | Aluminium Production in MT/Day            |                                                                       | 114.20                   |                        |             |
| 3.                            | Stack height from Ground(m)               |                                                                       | 34.0                     |                        |             |
| 4.                            | Stack Area (m <sup>2</sup> )              |                                                                       | 12.57                    |                        |             |
| 5.                            | Material of Construction of duct          |                                                                       | M.S.                     |                        |             |
| 6.                            | Diameter of Stack(m)                      |                                                                       | 4.0                      |                        |             |
| 7.                            | Sampling Duration                         |                                                                       | 30                       |                        |             |
| 8.                            | Atmospheric Pressure(mmHg)                |                                                                       | 742                      |                        |             |
| 9.                            | Atmospheric temperature( <sup>o</sup> K)  |                                                                       | 304                      |                        |             |
| 10.                           | Flue Gas temperature( <sup>o</sup> K)     |                                                                       | 360                      |                        |             |
| 11.                           | Flue Gas Exist Velocity(m/s)              |                                                                       | 13.2                     |                        |             |
| 12.                           | Flue Gas Exit Volume (Nm <sup>3</sup> /h) |                                                                       | 686825.74                |                        |             |
|                               | Pollutants Concentration                  |                                                                       | Result                   | Standard               | Method      |
|                               | P.F.(%)                                   |                                                                       | 1.95                     | -                      | Calculation |
|                               | P.F.(mg/Nm <sup>3</sup> )                 |                                                                       | 0.23                     | -                      | Calculation |

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Managing Director

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### Stack Emission Data and Analytical Results of DSS in Pot Room

ULR- TC82412500000859

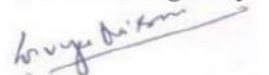
| Report No.                   |                                           | Reference No.                                                         |                          | Issue Date             |                       |
|------------------------------|-------------------------------------------|-----------------------------------------------------------------------|--------------------------|------------------------|-----------------------|
| PCS/SE/11/2025               |                                           | PCS/HIL/03/2025                                                       |                          | 03/04/2025             |                       |
| 1.Name & address of Industry |                                           | M/s Hindalco Industries Limited, PO- Renukoot, Dist- Sonebhadra (UP). |                          |                        |                       |
| 2. Type of Industry          |                                           | Aluminium Industry                                                    | 7. Method of Sampling    | PCS/WI/SAMP/20         |                       |
| 3. Sample collected by       |                                           | Mr. Umakant & Mr. Shubham                                             | 8. Date of sampling      | 26/02/2025             |                       |
| 4. Weather Condition         |                                           | Clear Sky                                                             | 9. Sample receipt in lab | 28/03/2025             |                       |
| 5. Sampling Location         |                                           | Line IX / DSS                                                         | 10. Date of Analysis     | 28/03/2025– 03/04/2025 |                       |
| 6. Lab Code                  |                                           | PCS25/32/413                                                          | 11. Sample Analyzed By   | Mr. Ajay Kumar         |                       |
| S. No.                       | Particulars                               |                                                                       | Value                    |                        |                       |
| 1.                           | Duct Attached to                          |                                                                       | Line IX / DSS            |                        |                       |
| 2.                           | Aluminium Production in MT/Day            |                                                                       | 108.20                   |                        |                       |
| 3.                           | Stack height from Ground(m)               |                                                                       | 34.0                     |                        |                       |
| 4.                           | Stack Area (m <sup>2</sup> )              |                                                                       | 12.57                    |                        |                       |
| 5.                           | Material of Construction of duct          |                                                                       | M.S.                     |                        |                       |
| 6.                           | Diameter of Stack(m)                      |                                                                       | 4.0                      |                        |                       |
| 7.                           | Sampling Duration                         |                                                                       | 30                       |                        |                       |
| 8.                           | Atmospheric Pressure(mmHg)                |                                                                       | 741                      |                        |                       |
| 9.                           | Atmospheric temperature( <sup>o</sup> K)  |                                                                       | 304                      |                        |                       |
| 10.                          | Flue Gas temperature( <sup>o</sup> K)     |                                                                       | 359                      |                        |                       |
| 11.                          | Flue Gas Exist Velocity(m/s)              |                                                                       | 12.2                     |                        |                       |
| 12.                          | Flue Gas Exit Volume (Nm <sup>3</sup> /h) |                                                                       | 638552.97                |                        |                       |
|                              | Pollutants Concentration                  |                                                                       | Result                   | Standard               | Method                |
|                              | PM (mg/Nm <sup>3</sup> )                  |                                                                       | 8.6                      | 150                    | IS 11255 (Part1),1985 |
|                              | SO <sub>2</sub> (mg/Nm <sup>3</sup> )     |                                                                       | 45.4                     | -                      | IS 11255 (Part 2)     |
|                              | NOx (mg/Nm <sup>3</sup> )                 |                                                                       | 34.7                     | -                      | IS 11255 (Part7)/FGA  |
|                              | CO(mg/Nm <sup>3</sup> )                   |                                                                       | 579                      | -                      | PCS/SOP/ST/03         |
|                              | Gaseous Fluoride (mg/Nm <sup>3</sup> )    |                                                                       | 0.86                     | -                      | PCS/SOP/ST/09: 2021   |
|                              | Total F <sub>2</sub> (Kg/T)of Aluminium   |                                                                       | 0.106                    | 0.8                    | PCS/SOP/ST/09: 2021   |

\*The Environment (protection) Rules,1986 Page No. 430 Point No. 36

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(Dr. Divya Misra)  
Managing Director

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Tel: 0522- 4002545, Mobile: 09415518818,  
GSTIN :- 09AAJFP5925G1ZY

## Stack Emission Data and Analytical Results of DSS in Pot Room

| Report No.                    |                                           | Reference No.                                                        |                          | Issue Date             |             |
|-------------------------------|-------------------------------------------|----------------------------------------------------------------------|--------------------------|------------------------|-------------|
| PCS/SE/11(a)/2025             |                                           | PCS/HIL/03/2025                                                      |                          | 03/04/2025             |             |
| 1. Name & address of Industry |                                           | M/s Hindalco Industries Limited, PO- Renukoot, Dist- Sonbhadra (UP). |                          |                        |             |
| 2. Type of Industry           |                                           | Aluminium Industry                                                   | 7. Method of Sampling    | PCS/WI/SAMP/20         |             |
| 3. Sample collected by        |                                           | Mr. Umakant & Mr. Shubham                                            | 8. Date of sampling      | 26/02/2025             |             |
| 4. Weather Condition          |                                           | Clear Sky                                                            | 9. Sample receipt in lab | 28/03/2025             |             |
| 5. Sampling Location          |                                           | Line IX / DSS                                                        | 10. Date of Analysis     | 28/03/2025– 03/04/2025 |             |
| 6. Lab Code                   |                                           | PCS25/32/413                                                         | 11. Sample Analyzed By   | Mr. Ajay Kumar         |             |
| S. No.                        | Particulars                               |                                                                      | Value                    |                        |             |
| 1.                            | Duct Attached to                          |                                                                      | Line IX / DSS            |                        |             |
| 2.                            | Aluminium Production in MT/Day            |                                                                      | 108.20                   |                        |             |
| 3.                            | Stack height from Ground(m)               |                                                                      | 34.0                     |                        |             |
| 4.                            | Stack Area (m <sup>2</sup> )              |                                                                      | 12.57                    |                        |             |
| 5.                            | Material of Construction of duct          |                                                                      | M.S.                     |                        |             |
| 6.                            | Diameter of Stack(m)                      |                                                                      | 4.0                      |                        |             |
| 7.                            | Sampling Duration                         |                                                                      | 30                       |                        |             |
| 8.                            | Atmospheric Pressure(mmHg)                |                                                                      | 741                      |                        |             |
| 9.                            | Atmospheric temperature( <sup>o</sup> K)  |                                                                      | 304                      |                        |             |
| 10.                           | Flue Gas temperature( <sup>o</sup> K)     |                                                                      | 359                      |                        |             |
| 11.                           | Flue Gas Exist Velocity(m/s)              |                                                                      | 12.2                     |                        |             |
| 12.                           | Flue Gas Exit Volume (Nm <sup>3</sup> /h) |                                                                      | 638552.97                |                        |             |
|                               | Pollutants Concentration                  |                                                                      | Result                   | Standard               | Method      |
|                               | P.F.(%)                                   |                                                                      | 1.93                     | -                      | Calculation |
|                               | P.F.(mg/Nm <sup>3</sup> )                 |                                                                      | 0.17                     | -                      | Calculation |

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Authorized Signatory

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Managing Director

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GSTIN :- 09AAJFP5925G1ZY



### Stack Emission Data and Analytical Results of DSS in Pot Room

ULR- TC824125000000860

| Report No.                    |                                           | Reference No.                                                         |                          | Issue Date             |                       |
|-------------------------------|-------------------------------------------|-----------------------------------------------------------------------|--------------------------|------------------------|-----------------------|
| PCS/SE/12/2025                |                                           | PCS/HIL/03/2025                                                       |                          | 03/04/2025             |                       |
| 1. Name & address of Industry |                                           | M/s Hindalco Industries Limited, PO- Renukoot, Dist- Sonebhadra (UP). |                          |                        |                       |
| 2. Type of Industry           |                                           | Aluminium Industry                                                    | 7. Method of Sampling    | PCS/WI/SAMP/20         |                       |
| 3. Sample collected by        |                                           | Mr. Umakant & Mr. Shubham                                             | 8. Date of sampling      | 27/02/2025             |                       |
| 4. Weather Condition          |                                           | Clear Sky                                                             | 9. Sample receipt in lab | 28/03/2025             |                       |
| 5. Sampling Location          |                                           | Line X / DSS                                                          | 10. Date of Analysis     | 28/03/2025– 03/04/2025 |                       |
| 6. Lab Code                   |                                           | PCS25/32/414                                                          | 11. Sample Analyzed By   | Mr. Ajay Kumar         |                       |
| S. No.                        | Particulars                               |                                                                       | Value                    |                        |                       |
| 1.                            | Duct Attached to                          |                                                                       | Line X / DSS             |                        |                       |
| 2.                            | Aluminium Production in MT/Day            |                                                                       | 111.20                   |                        |                       |
| 3.                            | Stack height from Ground(m)               |                                                                       | 34.0                     |                        |                       |
| 4.                            | Stack Area (m <sup>2</sup> )              |                                                                       | 12.57                    |                        |                       |
| 5.                            | Material of Construction of duct          |                                                                       | M.S.                     |                        |                       |
| 6.                            | Diameter of Stack(m)                      |                                                                       | 4.0                      |                        |                       |
| 7.                            | Sampling Duration                         |                                                                       | 30                       |                        |                       |
| 8.                            | Atmospheric Pressure(mmHg)                |                                                                       | 740                      |                        |                       |
| 9.                            | Atmospheric temperature( <sup>0</sup> K)  |                                                                       | 305                      |                        |                       |
| 10.                           | Flue Gas temperature( <sup>0</sup> K)     |                                                                       | 363                      |                        |                       |
| 11.                           | Flue Gas Exist Velocity(m/s)              |                                                                       | 11.3                     |                        |                       |
| 12.                           | Flue Gas Exit Volume (Nm <sup>3</sup> /h) |                                                                       | 582098.88                |                        |                       |
|                               | Pollutants Concentration                  |                                                                       | Result                   | Standard               | Method                |
|                               | PM (mg/Nm <sup>3</sup> )                  |                                                                       | 13.8                     | 150                    | IS 11255 (Part1),1985 |
|                               | SO <sub>2</sub> (mg/Nm <sup>3</sup> )     |                                                                       | 35.4                     | -                      | IS 11255 (Part 2)     |
|                               | NO <sub>x</sub> (mg/Nm <sup>3</sup> )     |                                                                       | 31.3                     | -                      | IS 11255 (Part7)/FGA  |
|                               | CO(mg/Nm <sup>3</sup> )                   |                                                                       | 566                      | -                      | PCS/SOP/ST/03         |
|                               | Gaseous Fluoride (mg/Nm <sup>3</sup> )    |                                                                       | 0.88                     | -                      | PCS/SOP/ST/09: 2021   |
|                               | Total F <sub>2</sub> (Kg/T)of Aluminium   |                                                                       | 0.106                    | 0.8                    | PCS/SOP/ST/09: 2021   |

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Managing Director

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GSTIN :- 09AAJFP5925G1ZY

## Stack Emission Data and Analytical Results of DSS in Pot Room

| Report No.                    |                                           | Reference No.                                                        |                          | Issue Date             |             |
|-------------------------------|-------------------------------------------|----------------------------------------------------------------------|--------------------------|------------------------|-------------|
| PCS/SE/12(a)/2025             |                                           | PCS/HIL/03/2025                                                      |                          | 03/04/2025             |             |
| 1. Name & address of Industry |                                           | M/s Hindalco Industries Limited, PO- Renukoot, Dist- Sonbhadra (UP). |                          |                        |             |
| 2. Type of Industry           |                                           | Aluminium Industry                                                   | 7. Method of Sampling    | PCS/WI/SAMP/20         |             |
| 3. Sample collected by        |                                           | Mr. Umakant& Mr. Shubham                                             | 8. Date of sampling      | 27/02/2025             |             |
| 4. Weather Condition          |                                           | Clear Sky                                                            | 9. Sample receipt in lab | 28/03/2025             |             |
| 5. Sampling Location          |                                           | Line X / DSS                                                         | 10. Date of Analysis     | 28/03/2025– 03/04/2025 |             |
| 6. Lab Code                   |                                           | PCS25/32/414                                                         | 11. Sample Analyzed By   | Mr. Ajay Kumar         |             |
| S. No.                        | Particulars                               |                                                                      | Value                    |                        |             |
| 1.                            | Duct Attached to                          |                                                                      | Line X / DSS             |                        |             |
| 2.                            | Aluminium Production in MT/Day            |                                                                      | 111.20                   |                        |             |
| 3.                            | Stack height from Ground(m)               |                                                                      | 34.0                     |                        |             |
| 4.                            | Stack Area (m <sup>2</sup> )              |                                                                      | 12.57                    |                        |             |
| 5.                            | Material of Construction of duct          |                                                                      | M.S.                     |                        |             |
| 6.                            | Diameter of Stack(m)                      |                                                                      | 4.0                      |                        |             |
| 7.                            | Sampling Duration                         |                                                                      | 30                       |                        |             |
| 8.                            | Atmospheric Pressure(mmHg)                |                                                                      | 740                      |                        |             |
| 9.                            | Atmospheric temperature( <sup>o</sup> K)  |                                                                      | 305                      |                        |             |
| 10.                           | Flue Gas temperature( <sup>o</sup> K)     |                                                                      | 363                      |                        |             |
| 11.                           | Flue Gas Exist Velocity(m/s)              |                                                                      | 11.3                     |                        |             |
| 12.                           | Flue Gas Exit Volume (Nm <sup>3</sup> /h) |                                                                      | 582098.88                |                        |             |
|                               | Pollutants Concentration                  |                                                                      | Result                   | Standard               | Method      |
|                               | P.F.(%)                                   |                                                                      | 1.90                     | -                      | Calculation |
|                               | P.F.(mg/Nm <sup>3</sup> )                 |                                                                      | 0.26                     | -                      | Calculation |

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### Stack Emission Data and Analytical Results of DSS in Pot Room

ULR- TC82412500000861

| Report No.                   |                                           | Reference No.                                                                                 |                          | Issue Date |                                                                                        |
|------------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------------|------------|----------------------------------------------------------------------------------------|
| PCS/SE/13/2025               |                                           | PCS/HIL/03/2025                                                                               |                          | 03/04/2025 |                                                                                        |
| 1.Name & address of Industry |                                           | M/s Hindalco Industries Limited, PO- Renukoot, Dist- Sonebhadra (UP).                         |                          |            |                                                                                        |
| 2. Type of Industry          |                                           | Aluminium Industry<br>Mr. Umakant & Mr. Shubham<br>Clear Sky<br>Line XI / DSS<br>PCS25/32/415 | 7. Method of Sampling    |            | PCS/WI/SAMP/20<br>27/02/2025<br>28/03/2025<br>28/03/2025– 03/04/2025<br>Mr. Ajay Kumar |
| 3. Sample collected by       |                                           |                                                                                               | 8. Date of sampling      |            |                                                                                        |
| 4. Weather Condition         |                                           |                                                                                               | 9. Sample receipt in lab |            |                                                                                        |
| 5. Sampling Location         |                                           |                                                                                               | 10. Date of Analysis     |            |                                                                                        |
| 6. Lab Code                  |                                           |                                                                                               | 11. Sample Analyzed By   |            |                                                                                        |
| S. No.                       | Particulars                               |                                                                                               | Value                    |            |                                                                                        |
| 1.                           | Duct Attached to                          |                                                                                               | Line XI / DSS            |            |                                                                                        |
| 2.                           | Aluminium Production in MT/Day            |                                                                                               | 110.90                   |            |                                                                                        |
| 3.                           | Stack height from Ground(m)               |                                                                                               | 34.0                     |            |                                                                                        |
| 4.                           | Stack Area (m <sup>2</sup> )              |                                                                                               | 12.57                    |            |                                                                                        |
| 5.                           | Material of Construction of duct          |                                                                                               | M.S.                     |            |                                                                                        |
| 6.                           | Diameter of Stack(m)                      |                                                                                               | 4.0                      |            |                                                                                        |
| 7.                           | Sampling Duration                         |                                                                                               | 30                       |            |                                                                                        |
| 8.                           | Atmospheric Pressure(mmHg)                |                                                                                               | 740                      |            |                                                                                        |
| 9.                           | Atmospheric temperature( <sup>0</sup> K)  |                                                                                               | 305                      |            |                                                                                        |
| 10.                          | Flue Gas temperature( <sup>0</sup> K)     |                                                                                               | 361                      |            |                                                                                        |
| 11.                          | Flue Gas Exist Velocity(m/s)              |                                                                                               | 12.9                     |            |                                                                                        |
| 12.                          | Flue Gas Exit Volume (Nm <sup>3</sup> /h) |                                                                                               | 670084.99                |            |                                                                                        |
|                              | Pollutants Concentration                  |                                                                                               | Result                   | Standard   | Method                                                                                 |
|                              |                                           | PM (mg/Nm <sup>3</sup> )                                                                      | 12.7                     | 150        | IS 11255 (Part1),1985                                                                  |
|                              |                                           | SO <sub>2</sub> (mg/Nm <sup>3</sup> )                                                         | 38.9                     | -          | IS 11255 (Part 2)                                                                      |
|                              |                                           | NOx (mg/Nm <sup>3</sup> )                                                                     | 32.1                     | -          | IS 11255 (Part7)/FGA                                                                   |
|                              |                                           | CO(mg/Nm <sup>3</sup> )                                                                       | 670                      | -          | PCS/SOP/ST/03                                                                          |
|                              |                                           | Gaseous Fluoride (mg/Nm <sup>3</sup> )                                                        | 0.92                     | -          | PCS/SOP/ST/09: 2021                                                                    |
|                              |                                           | Total F <sub>2</sub> (Kg/T)of Aluminium                                                       | 0.125                    | 0.8        | PCS/SOP/ST/09: 2021                                                                    |

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Tel: 0522- 4002545, Mobile: 09415518818,  
GSTIN :- 09AAJFP5925G1ZY

## Stack Emission Data and Analytical Results of DSS in Pot Room

| Report No.                    |                                           | Reference No.                                                         |                          | Issue Date             |             |
|-------------------------------|-------------------------------------------|-----------------------------------------------------------------------|--------------------------|------------------------|-------------|
| PCS/SE/13(a)/2025             |                                           | PCS/HIL/03/2025                                                       |                          | 03/04/2025             |             |
| 1. Name & address of Industry |                                           | M/s Hindalco Industries Limited, PO- Renukoot, Dist- Sonebhadra (UP). |                          |                        |             |
| 2. Type of Industry           |                                           | Aluminium Industry                                                    | 7. Method of Sampling    | PCS/WI/SAMP/20         |             |
| 3. Sample collected by        |                                           | Mr. Umakant & Mr. Shubham                                             | 8. Date of sampling      | 27/02/2025             |             |
| 4. Weather Condition          |                                           | Clear Sky                                                             | 9. Sample receipt in lab | 28/03/2025             |             |
| 5. Sampling Location          |                                           | Line XI / DSS                                                         | 10. Date of Analysis     | 28/03/2025– 03/04/2025 |             |
| 6. Lab Code                   |                                           | PCS25/32/415                                                          | 11. Sample Analyzed By   | Mr. Ajay Kumar         |             |
| S. No.                        | Particulars                               |                                                                       | Value                    |                        |             |
| 1.                            | Duct Attached to                          |                                                                       | Line XI / DSS            |                        |             |
| 2.                            | Aluminium Production in MT/Day            |                                                                       | 110.90                   |                        |             |
| 3.                            | Stack height from Ground(m)               |                                                                       | 34.0                     |                        |             |
| 4.                            | Stack Area (m <sup>2</sup> )              |                                                                       | 12.57                    |                        |             |
| 5.                            | Material of Construction of duct          |                                                                       | M.S.                     |                        |             |
| 6.                            | Diameter of Stack(m)                      |                                                                       | 4.0                      |                        |             |
| 7.                            | Sampling Duration                         |                                                                       | 30                       |                        |             |
| 8.                            | Atmospheric Pressure(mmHg)                |                                                                       | 740                      |                        |             |
| 9.                            | Atmospheric temperature( <sup>o</sup> K)  |                                                                       | 305                      |                        |             |
| 10.                           | Flue Gas temperature( <sup>o</sup> K)     |                                                                       | 361                      |                        |             |
| 11.                           | Flue Gas Exist Velocity(m/s)              |                                                                       | 12.9                     |                        |             |
| 12.                           | Flue Gas Exit Volume (Nm <sup>3</sup> /h) |                                                                       | 670084.99                |                        |             |
|                               | Pollutants Concentration                  |                                                                       | Result                   | Standard               | Method      |
|                               | P.F.(%)                                   |                                                                       | 1.98                     | -                      | Calculation |
|                               | P.F.(mg/Nm <sup>3</sup> )                 |                                                                       | 0.25                     | -                      | Calculation |

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(Dr. Divya Misra)  
Managing Director

"End of this Test Report"

Services Available

Environmental Monitoring, Preparation of EIA/EMP, Baseline data generation for Air, Water, Soil, Noise & Meteorology  
Environmental and Safety Audit reports, Commissioning, Erection, Operation and Maintenance of STP/ETP, Clearances from  
Ground Water Board, Compliance of E.C., NOC from UP/PCB, MoEF

### Stack Emission Data and Analytical Results of Boiler

ULR- TC82412500000865

| Report No.                    |                                                   | Reference No.                                                         |                          | Issue Date             |                       |
|-------------------------------|---------------------------------------------------|-----------------------------------------------------------------------|--------------------------|------------------------|-----------------------|
| PCS/SE/14/2025                |                                                   | PCS/HIL/03/2025                                                       |                          | 03/04/2025             |                       |
| 1. Name & address of Industry |                                                   | M/s Hindalco Industries Limited, PO- Renukoot, Dist- Sonebhadra (UP). |                          |                        |                       |
| 2. Type of Industry           |                                                   | Aluminium Industry                                                    | 7. Method of Sampling    | PCS/WI/SAMP/20         |                       |
| 3. Sample collected by        |                                                   | Mr. Umakant & Mr. Shubham                                             | 8. Date of sampling      | 19/03/2025             |                       |
| 4. Weather Condition          |                                                   | Clear Sky                                                             | 9. Sample receipt in lab | 28/03/2025             |                       |
| 5. Sampling Location          |                                                   | Boiler -1/ESP                                                         | 10. Date of Analysis     | 28/03/2025– 03/04/2025 |                       |
| 6. Lab Code                   |                                                   | PCS25/32/421                                                          | 11. Sample Analyzed By   | Mr. Ajay Kumar         |                       |
| S. No.                        | Particulars                                       |                                                                       | Value                    |                        |                       |
| 1.                            | Duct Attached to/ APCS Installed                  |                                                                       | Boiler -1/ESP            |                        |                       |
| 2.                            | Quantity of Fuel Used (T/hr)                      |                                                                       | 18.52                    |                        |                       |
| 3.                            | Steam generation (T/hr)                           |                                                                       | 80.75                    |                        |                       |
| 4.                            | Stack height from Ground(m)                       |                                                                       | 75.0                     |                        |                       |
| 5.                            | Height of Sampling Point (m)                      |                                                                       | 25.0                     |                        |                       |
| 6.                            | Duct Inner Dimension (m)                          |                                                                       | 2.6                      |                        |                       |
| 7.                            | Material of Construction of duct                  |                                                                       | M.S. Granite             |                        |                       |
| 8.                            | Duct Inner Cross sectional Area (m <sup>2</sup> ) |                                                                       | 5.31                     |                        |                       |
| 9.                            | Type of Fuel Used                                 |                                                                       | Pulverized coal          |                        |                       |
| 10.                           | Sampling Duration                                 |                                                                       | 30                       |                        |                       |
| 11.                           | Atmospheric Pressure(mmHg)                        |                                                                       | 741                      |                        |                       |
| 12.                           | Atmospheric temperature( <sup>o</sup> K)          |                                                                       | 311                      |                        |                       |
| 13.                           | Flue Gas temperature( <sup>o</sup> K)             |                                                                       | 428                      |                        |                       |
| 14.                           | Flue Gas Exist Velocity(m/s)                      |                                                                       | 11.7                     |                        |                       |
| 15.                           | Flue Gas Exit Volume (Nm <sup>3</sup> /h)         |                                                                       | 187087.53                |                        |                       |
|                               | Pollutants Concentration                          |                                                                       | Result                   | Standard               | Method                |
|                               |                                                   | PM (mg/Nm <sup>3</sup> )                                              | 88.5                     | 150                    | IS 11255 (Part1),1985 |
|                               |                                                   | SO <sub>2</sub> (mg/Nm <sup>3</sup> )                                 | 298.4                    | -                      | IS 11255 (Part 2)     |
|                               |                                                   | CO(mg/Nm <sup>3</sup> )                                               | 335                      | -                      | PCS/SOP/ST/03         |
|                               |                                                   | NOx (mg/Nm <sup>3</sup> )                                             | 274.3                    | -                      | IS 11255 (Part7)/FGA  |

\*The Environment (protection) Rules,1986 Page No. 430 Point No. 36

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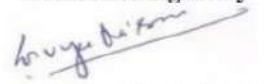
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Authorized Signatory

  
**(Dr. Divya Misra)**  
**Managing Director**

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## TEST REPORT Prakriti Consultants Services

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Tel: 0522- 4002545, Mobile: 09415518818,  
GSTIN :- 09AAJFP5925G1ZY



### Stack Emission Data and Analytical Results of Boiler

ULR- TC82412500000866

| Report No.                   | Reference No.                                                        | Issue Date                     |
|------------------------------|----------------------------------------------------------------------|--------------------------------|
| PCS/SE/15/2025               | PCS/HIL/03/2025                                                      | 03/04/2025                     |
| 1.Name & address of Industry | M/s Hindalco Industries Limited, PO- Renukoot, Dist- Sonbhadra (UP). |                                |
| 2. Type of Industry          | Aluminium Industry                                                   | 7. Method of Sampling          |
| 3. Sample collected by       | Mr. Umakant & Mr. Shubham                                            | 8. Date of sampling            |
| 4. Weather Condition         | Clear Sky                                                            | 9. Sample receipt in lab       |
| 5. Sampling Location         | Boiler -2/ESP                                                        | 10. Date of Analysis           |
| 6. Lab Code                  | PCS25/32/422                                                         | 11. Sample Analyzed By         |
|                              |                                                                      | Mr. Ajay Kumar                 |
| S. No.                       | Particulars                                                          | Value                          |
| 1.                           | Duct Attached to/ APCS Installed                                     | Boiler -2/ESP                  |
| 2.                           | Quantity of Fuel Used (T/hr)                                         | 16.13                          |
| 3.                           | Steam generation (T/hr)                                              | 73.78                          |
| 4.                           | Stack height from Ground(m)                                          | 75.0                           |
| 5.                           | Height of Sampling Point (m)                                         | 25.0                           |
| 6.                           | Duct Inner Dimension (m)                                             | 2.6                            |
| 7.                           | Material of Construction of duct                                     | M.S. Granite                   |
| 8.                           | Duct Inner Cross sectional Area (m <sup>2</sup> )                    | 5.31                           |
| 9.                           | Type of Fuel Used                                                    | Pulverized coal                |
| 10.                          | Sampling Duration                                                    | 30                             |
| 11.                          | Atmospheric Pressure(mmHg)                                           | 740                            |
| 12.                          | Atmospheric temperature( <sup>o</sup> K)                             | 305                            |
| 13.                          | Flue Gas temperature( <sup>o</sup> K)                                | 409                            |
| 14.                          | Flue Gas Exist Velocity(m/s)                                         | 10.8                           |
| 15.                          | Flue Gas Exit Volume (Nm <sup>3</sup> /h)                            | 184927.81                      |
|                              | Pollutants Concentration                                             | Result Standard Method         |
|                              | PM (mg/Nm <sup>3</sup> )                                             | 99.7 150 IS 11255 (Part1),1985 |
|                              | SO <sub>2</sub> (mg/Nm <sup>3</sup> )                                | 344.3 - IS 11255 (Part 2)      |
|                              | CO(mg/Nm <sup>3</sup> )                                              | 358 - PCS/SOP/ST/03            |
|                              | NOx (mg/Nm <sup>3</sup> )                                            | 289.6 - IS 11255 (Part7)/FGA   |

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Authorized Signatory

(Dr. Divya Misra)  
Managing Director

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Environmental and Safety Audit reports, Commissioning, Erection, Operation and Maintenance of STP/ETP, Clearances from  
Ground Water Board, Compliance of E.C., NOC from UPPCB, MoEF

### Stack Emission Data and Analytical Results of Boiler

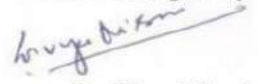
ULR- TC82412500000867

| Report No.                    |                                                   | Reference No.                                                         |                          | Issue Date             |                       |
|-------------------------------|---------------------------------------------------|-----------------------------------------------------------------------|--------------------------|------------------------|-----------------------|
| PCS/SE/16/2025                |                                                   | PCS/HIL/03/2025                                                       |                          | 03/04/2025             |                       |
| 1. Name & address of Industry |                                                   | M/s Hindalco Industries Limited, PO- Renukoot, Dist- Sonebhadra (UP). |                          |                        |                       |
| 2. Type of Industry           |                                                   | Aluminium Industry                                                    | 7. Method of Sampling    | PCS/WI/SAMP/20         |                       |
| 3. Sample collected by        |                                                   | Mr. Umakant & Mr. Shubham                                             | 8. Date of sampling      | 20/03/2025             |                       |
| 4. Weather Condition          |                                                   | Clear Sky                                                             | 9. Sample receipt in lab | 28/03/2025             |                       |
| 5. Sampling Location          |                                                   | Boiler -3/ESP                                                         | 10. Date of Analysis     | 28/03/2025– 03/04/2025 |                       |
| 6. Lab Code                   |                                                   | PCS25/32/423                                                          | 11. Sample Analyzed By   | Mr. Ajay Kumar         |                       |
| S. No.                        | Particulars                                       |                                                                       | Value                    |                        |                       |
| 1.                            | Duct Attached to/ APCS Installed                  |                                                                       | Boiler -3/ESP            |                        |                       |
| 2.                            | Quantity of Fuel Used (T/hr)                      |                                                                       | 31.26                    |                        |                       |
| 3.                            | Steam generation (T/hr)                           |                                                                       | 121.10                   |                        |                       |
| 4.                            | Stack height from Ground(m)                       |                                                                       | 88.0                     |                        |                       |
| 5.                            | Height of Sampling Point (m)                      |                                                                       | 25.0                     |                        |                       |
| 6.                            | Duct Inner Dimension (m)                          |                                                                       | 2.2                      |                        |                       |
| 7.                            | Material of Construction of duct                  |                                                                       | M.S. Granite             |                        |                       |
| 8.                            | Duct Inner Cross sectional Area (m <sup>2</sup> ) |                                                                       | 3.80                     |                        |                       |
| 9.                            | Type of Fuel Used                                 |                                                                       | Pulverized coal          |                        |                       |
| 10.                           | Sampling Duration                                 |                                                                       | 30                       |                        |                       |
| 11.                           | Atmospheric Pressure(mmHg)                        |                                                                       | 741                      |                        |                       |
| 12.                           | Atmospheric temperature( <sup>o</sup> K)          |                                                                       | 305                      |                        |                       |
| 13.                           | Flue Gas temperature( <sup>o</sup> K)             |                                                                       | 412                      |                        |                       |
| 14.                           | Flue Gas Exist Velocity(m/s)                      |                                                                       | 12.2                     |                        |                       |
| 15.                           | Flue Gas Exit Volume (Nm <sup>3</sup> /h)         |                                                                       | 147357.21                |                        |                       |
|                               | Pollutants Concentration                          |                                                                       | Result                   | Standard               | Method                |
|                               |                                                   | PM (mg/Nm <sup>3</sup> )                                              | 91.0                     | 150                    | IS 11255 (Part1),1985 |
|                               |                                                   | SO <sub>2</sub> (mg/Nm <sup>3</sup> )                                 | 362.4                    | -                      | IS 11255 (Part 2)     |
|                               |                                                   | CO(mg/Nm <sup>3</sup> )                                               | 355                      | -                      | PCS/SOP/ST/03         |
|                               |                                                   | NOx (mg/Nm <sup>3</sup> )                                             | 337.3                    | -                      | IS 11255 (Part7)/FGA  |

\*The Environment (protection) Rules,1986 Page No. 430 Point No. 36

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**(Dr. Divya Misra)**  
 Managing Director

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### Stack Emission Data and Analytical Results of Boiler

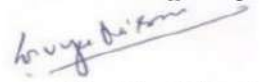
ULR- TC82412500000868

| Report No.                   |                                                   | Reference No.                                                         |                          | Issue Date             |                       |
|------------------------------|---------------------------------------------------|-----------------------------------------------------------------------|--------------------------|------------------------|-----------------------|
| PCS/SE/17/2025               |                                                   | PCS/HIL/03/2025                                                       |                          | 03/04/2025             |                       |
| 1.Name & address of Industry |                                                   | M/s Hindalco Industries Limited, PO- Renukoot, Dist- Sonebhadra (UP). |                          |                        |                       |
| 2. Type of Industry          |                                                   | Aluminium Industry                                                    | 7. Method of Sampling    | PCS/WI/SAMP/20         |                       |
| 3. Sample collected by       |                                                   | Mr. Umakant & Mr. Shubham                                             | 8. Date of sampling      | 20/02/2025             |                       |
| 4. Weather Condition         |                                                   | Clear Sky                                                             | 9. Sample receipt in lab | 28/03/2025             |                       |
| 5. Sampling Location         |                                                   | Boiler -4/ESP                                                         | 10. Date of Analysis     | 28/03/2025– 03/04/2025 |                       |
| 6. Lab Code                  |                                                   | PCS25/32/424                                                          | 11. Sample Analyzed By   | Mr. Ajay Kumar         |                       |
| S. No.                       | Particulars                                       |                                                                       | Value                    |                        |                       |
| 1.                           | Duct Attached to/ APCS Installed                  |                                                                       | Boiler -4/ESP            |                        |                       |
| 2.                           | Quantity of Fuel Used (T/hr)                      |                                                                       | 31.81                    |                        |                       |
| 3.                           | Steam generation (T/hr)                           |                                                                       | 130.65                   |                        |                       |
| 4.                           | Stack height from Ground (m)                      |                                                                       | 88.0                     |                        |                       |
| 5.                           | Height of Sampling Point (m)                      |                                                                       | 25.0                     |                        |                       |
| 6.                           | Duct Inner Dimension (m)                          |                                                                       | 2.73                     |                        |                       |
| 7.                           | Material of Construction of duct                  |                                                                       | R.C.C.                   |                        |                       |
| 8.                           | Duct Inner Cross sectional Area (m <sup>2</sup> ) |                                                                       | 5.86                     |                        |                       |
| 9.                           | Type of Fuel Used                                 |                                                                       | Pulverized coal          |                        |                       |
| 10.                          | Sampling Duration                                 |                                                                       | 30                       |                        |                       |
| 11.                          | Atmospheric Pressure(mmHg)                        |                                                                       | 742                      |                        |                       |
| 12.                          | Atmospheric temperature( <sup>o</sup> K)          |                                                                       | 302                      |                        |                       |
| 13.                          | Flue Gas temperature( <sup>o</sup> K)             |                                                                       | 423                      |                        |                       |
| 14.                          | Flue Gas Exist Velocity(m/s)                      |                                                                       | 12.0                     |                        |                       |
| 15.                          | Flue Gas Exit Volume (Nm <sup>3</sup> /h)         |                                                                       | 209315.91                |                        |                       |
|                              | Pollutants Concentration                          |                                                                       | Result                   | Standard               | Method                |
|                              | PM (mg/Nm <sup>3</sup> )                          |                                                                       | 96.8                     | 150                    | IS 11255 (Part1),1985 |
|                              | SO <sub>2</sub> (mg/Nm <sup>3</sup> )             |                                                                       | 364.1                    | -                      | IS 11255 (Part 2)     |
|                              | CO(mg/Nm <sup>3</sup> )                           |                                                                       | 318.2                    | -                      | PCS/SOP/ST/03         |
|                              | NOx (mg/Nm <sup>3</sup> )                         |                                                                       | 324.6                    | -                      | IS 11255 (Part7)/FGA  |

\*The Environment (protection) Rules,1986 Page No. 430 Point No. 36

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**(Dr. Divya Misra)**  
**Managing Director**

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# TEST REPORT

## Prakriti Consultants Services

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Tel: 0522-4002545, Mobile: 09415518818,  
GSTIN: 09AAJFP5925G1Z7Y



### Test Report of Ambient Air Quality

ULR- TC824125000000845

Report No.

PCS/AAQ/01/2025

Reference No.

PCS/HIL/03/2025

Issue Date

03/04/2025

|                        |                                                                      |                           |                         |
|------------------------|----------------------------------------------------------------------|---------------------------|-------------------------|
| 1. Name of Industry:   | M/s Hindalco Industries Limited, PO- Renukoot, Dist- Sonbhadra (UP). |                           |                         |
| 2. Type of Industry:   | Aluminium industry                                                   | 7. Method of Sampling:    | PCS/WI/SAMP/20          |
| 3. Sampling Location:  | Near Gurudwara                                                       | 8. Date of Monitoring :   | 27/01/2025-28/01/2025   |
| 4. Monitoring done by: | Mr. Asheesh Kushwaha & Mr. Umakant                                   | 9. Sample Receipt in Lab: | 28/03/2025              |
| 5. Weather Condition : | Clear Sky                                                            | 10. Date of Analysis:     | 28/03/2025 – 01/04/2025 |
| 6. Lab Code            | PCS25/32/402                                                         | 11. Sample Analyzed By:   | Mr. Shubham Pandey      |

| Sl. No. | Parameters                              | Unit                 | Result | Standards* | Method of Measurement |
|---------|-----------------------------------------|----------------------|--------|------------|-----------------------|
| 1       | Particulate Matter (PM <sub>10</sub> )  | (µg/m <sup>3</sup> ) | 88.3   | 100        | IS: 5182 Part (23)    |
| 2       | Particulate Matter (PM <sub>2.5</sub> ) | (µg/m <sup>3</sup> ) | 45.1   | 60         | IS 5182 (Part-24)     |
| 3       | Sulphur Dioxide (SO <sub>2</sub> )      | (µg/m <sup>3</sup> ) | 16.3   | 80         | IS : 5182 (Part-2)    |
| 4       | Nitrogen Dioxide (NO <sub>2</sub> )     | (µg/m <sup>3</sup> ) | 21.8   | 80         | IS: 5182 (Part 6)     |
| 5       | Ammonia (NH <sub>3</sub> )              | (µg/m <sup>3</sup> ) | 17.2   | 400        | IS-5182(Part-25)      |
| 6       | Nickel (Ni)                             | (ng/m <sup>3</sup> ) | 2.8    | 20         | IS-5182(Part-26)      |
| 7       | Lead (Pb)                               | (µg/m <sup>3</sup> ) | 0.4    | 1.0        | IS-5182(Part-22)      |
| 8       | Ozone(O <sub>3</sub> )                  | (µg/m <sup>3</sup> ) | 22.8   | 100        | IS-5182(Part-09)      |
| 9       | Fluoride (F)                            | (µg/m <sup>3</sup> ) | 3.1    | NS         | IS: 5182 (Part 13)    |

\*NAAQS CPCB Notification, dated 18.11.2009

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Managing Director

"End of this Test Report"

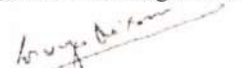
## Test Report of Ambient Air Quality

| Report No.             |                                          | Reference No.                                                        |                          | Issue Date              |                        |
|------------------------|------------------------------------------|----------------------------------------------------------------------|--------------------------|-------------------------|------------------------|
| PCS/AAQ/01(a)/2025     |                                          | PCS/HIL/03/2025                                                      |                          | 03/04/2025              |                        |
| 1.Name of Industry:    |                                          | M/s Hindalco Industries Limited, PO- Renukoot, Dist- Sonbhadra (UP). |                          |                         |                        |
| 2.Type of Industry:    |                                          | Aluminium industry                                                   | 7. Method of sampling    | PCS/WI/SAMP/20          |                        |
| 3.Sampling Location:   |                                          | Near Gurudwara                                                       | 8. Date of Monitoring :  | 27/01/2025-28/01/2025   |                        |
| 4. Monitoring done by: |                                          | Mr.Asheesh Kushwaha & Mr. Umakant                                    | 9.Sample Receipt in Lab: | 28/03/2025              |                        |
| 5. Weather Condition : |                                          | Clear Sky                                                            | 10. Date of Analyses:    | 28/03/2025 – 01/04/2025 |                        |
| 6. Lab Code:           |                                          | PCS25/32/402                                                         | 11.Sample Analyzed By:   | Mr. Shubham Pandey      |                        |
| Sl. No.                | Parameters                               | Unit                                                                 | Result                   | Standards*              | Method of Measurement  |
| 1                      | Carbon Monoxide (CO)                     | (mg/ m <sup>3</sup> )                                                | 0.7                      | 2.0                     | IS:5182 ( Part 10)     |
| 2                      | Benzene (C <sub>6</sub> H <sub>6</sub> ) | (µg/ m <sup>3</sup> )                                                | 4.1                      | 5.0                     | GC based analysis      |
| 3                      | Benzo(a) Pyrene (BaP)                    | (ng/ m <sup>3</sup> )                                                | 0.2                      | 1.0                     | GC based analysis      |
| 4                      | Arsenic (As)                             | (ng/ m <sup>3</sup> )                                                | 2.9                      | 6.0                     | EPM 2000 by AAS Method |

\*NAAQS/PCB Notification, dated 18.11.2009

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Tel: 0522-4002545, Mobile: 09415518818,  
GSTIN: 09AAJFP5925G1ZY

## Test Report of Ambient Air Quality

| Report No.             |                                          | Reference No.                                                        |                          | Issue Date              |                        |
|------------------------|------------------------------------------|----------------------------------------------------------------------|--------------------------|-------------------------|------------------------|
| PCS/AAQ/02(a)/2025     |                                          | PCS/HIL/03/2025                                                      |                          | 03/04/2025              |                        |
| 1.Name of Industry:    |                                          | M/s Hindalco Industries Limited, PO- Renukoot, Dist- Sonbhadra (UP). |                          |                         |                        |
| 2.Type of Industry:    |                                          | Aluminium industry                                                   | 7. Method of sampling    | PCS/WI/SAMP/20          |                        |
| 3.Sampling Location:   |                                          | Near Plant II Gate                                                   | 8. Date of Monitoring :  | 27/01/2025-28/01/2025   |                        |
| 4. Monitoring done by: |                                          | Mr.Asheesh Kushwaha & Mr.Umakant                                     | 9.Sample Receipt in Lab: | 28/03/2025              |                        |
| 5. Weather Condition : |                                          | Clear Sky                                                            | 10. Date of Analyses:    | 28/03/2025 – 01/04/2025 |                        |
| 6. Lab Code:           |                                          | PCS25/32/400                                                         | 11.Sample Analyzed By:   | Mr. Shubham Pandey      |                        |
| Sl. No.                | Parameters                               | Unit                                                                 | Result                   | Standards*              | Method of Measurement  |
| 1                      | Carbon Monoxide (CO)                     | (mg/ m <sup>3</sup> )                                                | 1.1                      | 2.0                     | IS:5182 ( Part 10)     |
| 2                      | Benzene (C <sub>6</sub> H <sub>6</sub> ) | (µg/ m <sup>3</sup> )                                                | 2.3                      | 5.0                     | GC based analysis      |
| 3                      | Benzo(a) Pyrene (BaP)                    | (ng/ m <sup>3</sup> )                                                | 0.4                      | 1.0                     | GC based analysis      |
| 4                      | Arsenic (As)                             | (ng/ m <sup>3</sup> )                                                | 2.9                      | 6.0                     | EPM 2000 by AAS Method |

NAACSWCPC Monitoring - Jan-19-2025

\*NAAQS/CPCB Notification, dated 18.11.2009

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5. No deviation as per the Standard Method.

Authorized Signatory

(Dr. Divya Misra)  
Managing Director

"End of this Test Report"

Services Available:

Environmental Monitoring, Preparation of EIA/EIMP, Baseline data generation for Air, Water, Soil, Noise & Meteorology  
Environmental and Safety Audit reports, Commissioning, Erection, Operation and Maintenance of STP/ETP, Clearances from  
Ground Water Board, Compliance of E.C., NOC from EPPB, A&EF



## TEST REPORT

### Prakriti Consultants Services

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(AN ISO 14001:2015, ISO 9001:2015 and ISO 45001:2018 Certified Organization)  
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GSTIN - 09AAJFP5925G1ZY



### Test Report of Ambient Air Quality

ULR- TC824125000000847

Report No. PCS/AAQ/03/2025 Reference No. PCS/HIL/03/2025 Issue Date 03/04/2025

|                        |                                                                      |                           |                         |
|------------------------|----------------------------------------------------------------------|---------------------------|-------------------------|
| 1. Name of Industry:   | M/s Hindaleo Industries Limited, PO- Renukoot, Dist- Sonbhadra (UP). |                           |                         |
| 2. Type of Industry:   | Aluminium industry                                                   | 7. Method of Sampling:    | PCS/WI/SAMP/20          |
| 3. Sampling Location:  | Near WTP                                                             | 8. Date of Monitoring :   | 27/01/2025-28/01/2025   |
| 4. Monitoring done by: | Mr. Asheesh Kushwaha & Mr. Umakant                                   | 9. Sample Receipt in Lab: | 28/03/2025              |
| 5. Weather Condition : | Clear Sky                                                            | 10. Date of Analysis:     | 28/03/2025 - 01/04/2025 |
| 6. Lab Code            | PCS25/32/401                                                         | 11. Sample Analyzed By:   | Mr. Shubham Pandey      |

| Sl. No. | Parameters                              | Unit                 | Result | Standards* | Method of Measurement |
|---------|-----------------------------------------|----------------------|--------|------------|-----------------------|
| 1       | Particulate Matter (PM <sub>10</sub> )  | (µg/m <sup>3</sup> ) | 84.6   | 100        | IS: 5182 Part (23)    |
| 2       | Particulate Matter (PM <sub>2.5</sub> ) | (µg/m <sup>3</sup> ) | 47.9   | 60         | IS 5182 (Part-24)     |
| 3       | Sulphur Dioxide (SO <sub>2</sub> )      | (µg/m <sup>3</sup> ) | 25.3   | 80         | IS : 5182 (Part-2)    |
| 4       | Nitrogen Dioxide (NO <sub>2</sub> )     | (µg/m <sup>3</sup> ) | 31.4   | 80         | IS: 5182 (Part 6)     |
| 5       | Ammonia (NH <sub>3</sub> )              | (µg/m <sup>3</sup> ) | 18.7   | 400        | IS-5182(Part-25)      |
| 6       | Nickel (Ni)                             | (ng/m <sup>3</sup> ) | 5.6    | 20         | IS-5182(Part-26)      |
| 7       | Lead (Pb)                               | (µg/m <sup>3</sup> ) | 0.4    | 1.0        | IS-5182(Part-22)      |
| 8       | Ozone(O <sub>3</sub> )                  | (µg/m <sup>3</sup> ) | 20.5   | 100        | IS-5182(Part-09)      |
| 9       | Fluoride (F)                            | (µg/m <sup>3</sup> ) | 2.9    | NS         | IS: 5182 (Part 13)    |

\*NAAQS CPCB Notification, dated 18.11.2009

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Authorized Signatory

  
(Dr. Divya Misra)  
Managing Director

"End of this Test Report"

Page 1 of 2

Services Available:  
Environmental Monitoring, Preparation of EIA/EMP, Baseline data generation for Air, Water, Soil, Noise & Meteorology  
Environmental and Safety Audit reports, Commissioning, Erection, Operation and Maintenance of STP/ETP, Clearance from  
Ground Water Board, Compliance of E.C., NDC from E.P.P.B. MoEF





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Tel: 0522-4002545, Mobile: 09415518818,  
GSTIN: 09AAJFP5925G1ZY

## Test Report of Ambient Air Quality

| Report No.             |                                                                      | Reference No.            |                         | Issue Date |                        |
|------------------------|----------------------------------------------------------------------|--------------------------|-------------------------|------------|------------------------|
| PCS/AAQ/03(a)/2025     |                                                                      | PCS/HIL/03/2025          |                         | 03/04/2025 |                        |
| 1.Name of Industry:    | M/s Hindalco Industries Limited, PO- Renukoot, Dist- Sonbhadra (UP). |                          |                         |            |                        |
| 2.Type of Industry:    | Aluminium industry                                                   | 7. Method of sampling    | PCS/WI/SAMP/20          |            |                        |
| 3.Sampling Location:   | Near WTP                                                             | 8. Date of Monitoring :  | 27/01/2025-28/01/2025   |            |                        |
| 4. Monitoring done by: | Mr.Asheesh Kushwaha & Mr.Umakant                                     | 9.Sample Receipt in Lab: | 28/03/2025              |            |                        |
| 5. Weather Condition : | Clear Sky                                                            | 10. Date of Analyses:    | 28/03/2025 – 01/04/2025 |            |                        |
| 6. Lab Code:           | PCS25/32/401                                                         | 11.Sample Analyzed By:   | Mr. Shubham Pandey      |            |                        |
| Sl. No.                | Parameters                                                           | Unit                     | Result                  | Standards* | Method of Measurement  |
| 1                      | Carbon Monoxide (CO)                                                 | (mg/ m <sup>3</sup> )    | 1.3                     | 2.0        | IS:5182 ( Part 10)     |
| 2                      | Benzene (C <sub>6</sub> H <sub>6</sub> )                             | (µg/ m <sup>3</sup> )    | 1.5                     | 5.0        | GC based analysis      |
| 3                      | Benzo(a) Pyrene (BaP)                                                | (ng/ m <sup>3</sup> )    | 0.6                     | 1.0        | GC based analysis      |
| 4                      | Arsenic (As)                                                         | (ng/ m <sup>3</sup> )    | 3.7                     | 6.0        | EPM 2000 by AAS Method |

\*NAAQS/CPCB Notification, dated 18.11.2009

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Authorized Signatory

  
(Dr. Divya Misra)  
Managing Director

"End of this Test Report"

Page 2 of 2

Services Available:  
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Ground Water Board, Compliance of E.I., MDR from ETP R, MoEF



ULR-TC824125000000848

### Test Report of Ambient Air Quality

Report No. PCS/AAQ/04/2025 Reference No. PCS/HIL/03/2025 Issue Date 03/04/2025

1. Name of Industry: **M/s Hindalco Industries Limited, PO- Renukoot, Dist- Sonbhadra (UP).**  
2. Type of Industry: **Aluminium industry**  
3. Sampling Location: **Near Renukeshwar Temp**  
4. Monitoring done by: **Mr. Asheesh Kushwaha & Mr. Umakant**  
5. Weather Condition: **Clear Sky**  
6. Lab Code: **PCS25/32/399**  
7. Method of Sampling: **PCS/WI/SAMP/20**  
8. Date of Monitoring: **27/01/2025-28/01/2025**  
9. Sample Receipt in Lab: **28/03/2025**  
10. Date of Analysis: **28/03/2025 – 01/04/2025**  
11. Sample Analyzed By: **Mr. Shubham Pandey**

| Sl. No. | Parameters                              | Unit                  | Result | Standards* | Method of Measurement |
|---------|-----------------------------------------|-----------------------|--------|------------|-----------------------|
| 1       | Particulate Matter (PM <sub>10</sub> )  | (µg/ m <sup>3</sup> ) | 77.8   | 100        | IS: 5182 Part (23)    |
| 2       | Particulate Matter (PM <sub>2.5</sub> ) | (µg/ m <sup>3</sup> ) | 40.5   | 60         | IS 5182 (Part-24)     |
| 3       | Sulphur Dioxide (SO <sub>2</sub> )      | (µg/ m <sup>3</sup> ) | 11.8   | 80         | IS : 5182 (Part-2)    |
| 4       | Nitrogen Dioxide (NO <sub>2</sub> )     | (µg/ m <sup>3</sup> ) | 26.4   | 80         | IS: 5182 (Part 6)     |
| 5       | Ammonia (NH <sub>3</sub> )              | (µg/ m <sup>3</sup> ) | 17.1   | 400        | IS-5182(Part-25)      |
| 6       | Nickel (Ni)                             | (ng/ m <sup>3</sup> ) | 3.8    | 20         | IS-5182(Part-26)      |
| 7       | Lead (Pb)                               | (µg/ m <sup>3</sup> ) | 0.3    | 1.0        | IS-5182(Part-22)      |
| 8       | Ozone(O <sub>3</sub> )                  | (µg/ m <sup>3</sup> ) | 21.9   | 100        | IS-5182(Part-09)      |
| 9       | Fluoride (F)                            | (µg/ m <sup>3</sup> ) | 3.1    | NS         | IS: 5182 (Part 13)    |

\*NAAQS/CPCB Notification, dated 18.11.2009

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Authorized Signatory

(Dr. Divya Misra)  
Managing Director

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Tel: 0522- 4002545, Mobile: 09415518818,  
GSTIN - 09AAJEP5925GIZY

## Test Report for Ambient Air Quality

| Report No.             | Reference No.                                                        |                          |                         | Issue Date |                        |
|------------------------|----------------------------------------------------------------------|--------------------------|-------------------------|------------|------------------------|
| PCS/AAQ/04(a)/2025     | PCS/HIL/03/2025                                                      |                          |                         | 03/04/2025 |                        |
| 1.Name of Industry:    | M/s Hindalco Industries Limited, PO- Renukoot, Dist- Sonbhadra (UP). |                          |                         |            |                        |
| 2.Type of Industry:    | Aluminium industry                                                   | 7. Method of sampling    | PCS/WI/SAMP/20          |            |                        |
| 3.Sampling Location:   | Near Renukeshwar Temp                                                | 8. Date of Monitoring :  | 27/01/2025-28/01/2025   |            |                        |
| 4. Monitoring done by: | Mr.Asheesh Kushwaha & Mr.Umakant                                     | 9.Sample Receipt in Lab: | 28/03/2025              |            |                        |
| 5. Weather Condition : | Clear Sky                                                            | 10. Date of Analyses:    | 28/03/2025 – 01/04/2025 |            |                        |
| 6. Lab Code:           | PCS25/32/399                                                         | 11.Sample Analyzed By:   | Mr. Shubham Pandey      |            |                        |
| Sl. No.                | Parameters                                                           | Unit                     | Result                  | Standards* | Method of Measurement  |
| 1                      | Carbon Monoxide (CO)                                                 | (mg/ m <sup>3</sup> )    | 1.0                     | 2.0        | IS:5182 ( Part 10)     |
| 2                      | Benzene (C <sub>6</sub> H <sub>6</sub> )                             | (µg/ m <sup>3</sup> )    | 1.2                     | 5.0        | GC based analysis      |
| 3                      | Benzo(a) Pyrene (BaP)                                                | (ng/ m <sup>3</sup> )    | 0.4                     | 1.0        | GC based analysis      |
| 4                      | Arsenic (As)                                                         | (ng/ m <sup>3</sup> )    | 3.2                     | 6.0        | EPM 2000 by AAS Method |

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Authorized Signatory

  
(Dr. Divya Misra)  
Managing Director

"End of this Test Report"



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|------|-------------------------------------------------------------------|-----------------|-------------------|----------------------|---------------------|----------------------|----------------------------------------|
| 1    | HINDALCO INDUSTRIES LIMITED<br>RENUKOOT_RENUKOOT_4 Near Gurudwara | Industrial Area | Submitted         | 2025-Apr-18 17:59:26 | Connected           | 2025-Apr-22 10:35:29 | 2025-Apr-16 14:31:25                   |
| 2    | HINDALCO INDUSTRIES LIMITED<br>RENUKOOT_RENUKOOT_3_Plant - II     | Industrial Area | Submitted         | 2025-Apr-14 12:56:53 | Connected           | 2025-Apr-16 14:27:58 |                                        |

Total records: 4



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|------|------------------------------------------------------------------------------|-----------------|-------------------|-------------------------|---------------------|-------------------------|----------------------------------------|--|
| 3    | INDUSTRIES<br>LIMITED<br>RENUKOOT_RENU<br>KOOT_2_WATER<br>TREATMENT<br>PLANT | Industrial Area | Submitted         | 2023-Jul-19<br>17:23:08 | Connected           | 2023-Jul-24<br>15:47:10 |                                        |  |
| 4    | HINDALCO<br>INDUSTRIES<br>LIMITED<br>RENUKOOT_RENU<br>KOOT_1                 | Industrial Area | Submitted         | 2023-Jul-14<br>13:26:04 | Connected           | 2023-Jul-17<br>12:49:35 | 2023-Apr-03<br>13:05:18                |  |

Total records: 4

**WORK ZONE MONITORING RESULT (OCTOBER, 2024 – MARCH 2025)**

| Sl. No | Location                       | Date     | SPM ( $\mu\text{gm}/\text{m}^3$ ) | Total Fluoride ( $\mu\text{gm}/\text{m}^3$ ) |
|--------|--------------------------------|----------|-----------------------------------|----------------------------------------------|
| 1      | Center of Line- I (Plant-I)    | 14.10.24 | 353.08                            | 212.17                                       |
| 2      | Roof Top Line- I (Plant-I)     | 14.10.24 | 241.12                            | 241.26                                       |
| 3      | Center of Line- IX (Plant-II)  | 16.10.24 | 379.12                            | 247.75                                       |
| 4      | Roof Top Line- IX (Plant-II)   | 16.10.24 | 263.48                            | 213.13                                       |
| 5      | Center of Line- XI (Plant-II)  | 22.10.24 | 365.76                            | 284.06                                       |
| 6      | Roof Top Line- XI (Plant-II)   | 22.10.24 | 246.83                            | 247.15                                       |
| 7      | Caster                         | 29.10.24 | 247.55                            | -                                            |
| 8      | Davy Cold Mill                 | 05.10.24 | 380.42                            | -                                            |
| 9      | Center of Line- III (Plant-I)  | 16.11.24 | 341.80                            | 228.92                                       |
| 10     | Roof Top Line- III (Plant-I)   | 16.11.24 | 234.94                            | 218.20                                       |
| 11     | Center of Line- V (Plant-II)   | 19.11.24 | 367.28                            | 192.49                                       |
| 12     | Roof Top Line- V (Plant-II)    | 19.11.24 | 260.35                            | 249.82                                       |
| 13     | Center of Line- VII (Plant-II) | 25.11.24 | 350.21                            | 268.29                                       |
| 14     | Roof Top Line- VII (Plant-II)  | 25.11.24 | 265.80                            | 277.88                                       |
| 15     | Caster                         | 09.11.24 | 249.70                            | -                                            |
| 16     | Davy Cold Mill                 | 19.11.24 | 388.97                            | -                                            |
| 17     | Center of Line- III (Plant-I)  | 07.12.24 | 333.59                            | 158.98                                       |
| 18     | Roof Top Line- III (Plant-I)   | 07.12.24 | 213.48                            | 202.33                                       |
| 19     | Center of Line- V (Plant-II)   | 14.12.24 | 392.05                            | 194.40                                       |
| 20     | Roof Top Line- V (Plant-II)    | 14.12.24 | 237.16                            | 160.94                                       |
| 21     | Center of Line- VII (Plant-II) | 21.12.24 | 363.44                            | 280.04                                       |
| 22     | Roof Top Line- VII (Plant-II)  | 21.12.24 | 246.45                            | 252.68                                       |
| 23     | Caster                         | 23.12.24 | 250.93                            | -                                            |
| 24     | Davy Cold Mill                 | 25.12.24 | 394.97                            | -                                            |

: 1:

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**E mail** hindalco@adityabirla.com  
**Corporate Identity No.** L27020MH1958PLC011238



| Sl. No | Location                        | Date      | SPM ( $\mu\text{gm}/\text{m}^3$ ) | Total Fluoride ( $\mu\text{gm}/\text{m}^3$ ) |
|--------|---------------------------------|-----------|-----------------------------------|----------------------------------------------|
| 25     | Center of Line- II (Plant-I)    | 05.01.25  | 399.55                            | 180.84                                       |
| 26     | Roof Top Line- II (Plant-I)     | 05.01. 25 | 192.05                            | 212.26                                       |
| 27     | Center of Line- VI (Plant-II)   | 19.01. 25 | 384.71                            | 261.12                                       |
| 28     | Roof Top Line- VI (Plant-II)    | 19.01. 25 | 223.09                            | 184.85                                       |
| 29     | Center of Line- VIII (Plant-II) | 21.01. 25 | 386.97                            | 293.62                                       |
| 30     | Roof Top Line- VIII (Plant-II)  | 21.01. 25 | 256.24                            | 230.67                                       |
| 31     | Caster                          | 11.01. 25 | 243.73                            | -                                            |
| 32     | Davy Cold Mill                  | 22.01. 25 | 392.30                            | -                                            |
| 33     | Center of Line- III (Plant-I)   | 09.02. 25 | 337.39                            | 218.34                                       |
| 34     | Roof Top Line- III (Plant-I)    | 09.02. 25 | 208.59                            | 165.30                                       |
| 35     | Center of Line- IV (Plant-II)   | 19.02. 25 | 329.73                            | 258.82                                       |
| 36     | Roof Top Line- IV (Plant-II)    | 19.02. 25 | 212.75                            | 215.89                                       |
| 37     | Center of Line- VI (Plant-II)   | 26.02. 25 | 376.13                            | 277.55                                       |
| 38     | Roof Top Line- VI (Plant-II)    | 26.02. 25 | 275.40                            | 234.22                                       |
| 39     | Caster                          | 12.02. 25 | 249.88                            | -                                            |
| 40     | Davy Cold Mill                  | 16.02. 25 | 379.85                            | -                                            |
| 41     | Center of Line- I (Plant-I)     | 09.03. 25 | 311.40                            | 409.92                                       |
| 42     | Roof Top Line- I (Plant-I)      | 09.03. 25 | 259.26                            | 439.71                                       |
| 43     | Center of Line- IX (Plant-II)   | 11.03. 25 | 331.65                            | 444.50                                       |
| 44     | Roof Top Line- IX (Plant-II)    | 11.03. 25 | 263.77                            | 597.03                                       |
| 45     | Center of Line- XI (Plant-II)   | 25.03. 25 | 346.96                            | 481.55                                       |
| 46     | Roof Top Line- XI (Plant-II)    | 25.03. 25 | 334.43                            | 470.79                                       |
| 47     | Caster                          | 03.03. 25 | 343.56                            | -                                            |
| 48     | Davy Cold Mill                  | 17.03. 25 | 377.04                            | -                                            |

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Corporate Identity No. L27020MH1958PLC011238







**TEST REPORT**  
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 Tel: 0522-4002545, Mobile: 09415518818,  
 GSTIN - 09AAJFP5925G1ZY



### TEST REPORT OF NOISE MONITORING

ULR- TC824125000000965

| Report No.                      | Reference No.                                                        | Issue Date                                                    |
|---------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------|
| PCS/Noise/01/2025               | PCS/HIL/01/2025                                                      | 03/04/2025                                                    |
| 1. Name & Address of Proponent: | M/s Hindalco Industries Limited, PO- Renukoot, Dist- Sonbhadra (UP). |                                                               |
| 2. Type of Industry:            | Aluminium Industry                                                   | 6. Method of Monitoring:                                      |
| 3. Monitoring Location:         | Sr. No 1-20                                                          | 7. Date of Monitoring:                                        |
| 4. Lab Code:                    | PCS25/14/199-218                                                     | 8. Data Received in Lab:                                      |
| 5. Monitoring Done by:          | Mr. Asheesh & Mr. Shubham                                            | As per Standard Method<br>10/02/2025-14/02/2025<br>28/03/2025 |
| S. No.                          | Name of Location                                                     | Results Noise dB(A)                                           |
| 1                               | Near Guest House                                                     | 58.4                                                          |
| 2                               | Near Plant 1 <sup>st</sup> Main Gate                                 | 65.3                                                          |
| 3                               | Near Hindalco Hospital                                               | 54.8                                                          |
| 4                               | Near State Bank                                                      | 70.1                                                          |
| 5                               | Plant II <sup>nd</sup> Main Gate                                     | 67.5                                                          |
| 6                               | Center of Pot Line 3                                                 | 74.6                                                          |
| 7                               | Alumina Plant Main Gate                                              | 73.7                                                          |
| 8                               | Alumina Plant Central Office                                         | 65.2                                                          |
| 9                               | Extrusion Press No 1                                                 | 75.0                                                          |
| 10                              | Remelt Shop Gate                                                     | 65.4                                                          |
| 11                              | Cast House Gate No 1                                                 | 66.6                                                          |
| 12                              | Davy Cold Mill Gate                                                  | 70.3                                                          |
| 13                              | Caster Plant Gate                                                    | 65.3                                                          |
| 14                              | Near Baking Furnace 4                                                | 64.8                                                          |
| 15                              | Carbon Plant Gate                                                    | 70.3                                                          |
| 16                              | Near Baking Office                                                   | 67.2                                                          |
| 17                              | Near Canteen Worker                                                  | 65.6                                                          |
| 18                              | At Renukeshwar Temple                                                | 54.4                                                          |
| 19                              | At Water Treatment                                                   | 53.7                                                          |
| 20                              | At Birla House                                                       | 51.4                                                          |

**Note:** 1. The results in the Test Report relate only to the items tested.  
 2. The report shall not be reproduced except in full, without the written permission of laboratory.  
 3. The report shall not be used for any other purpose than declared by the Sponsor.  
 4. Prakriti Consultants Services is not regulatory agency hence no part of this report should be used for legal purpose under any circumstances.  
 5. No deviation as per the Standard Method.

Authorized Signatory

(Dr. Divya Misra)  
 Managing Director

"End of this Test Report"

#### Services Available

Environmental Monitoring, Preparation of EIA/EMP, Baseline data generation for Air, Water, Soil, Noise & Meteorology  
 Environmental and Safety Audit reports, Commissioning, Erection, Operation and Maintenance of STP/ETP, Clearances from  
 Ground Water Board, Compliance of E.C., NOC from UP PCB, MoEF

**HINDALCO INDUSTRIES LIMITED**  
 Renukoot Works  
 P.O. Renukoot - 231217  
 Distt. Sonbhadra (U.P.)  
 Telephone +91 5446 252077-79 / 254791-96  
 Fax +91 5446 252107 / 252427

**REGISTERED OFFICE**  
 Ahura Centre, 1<sup>st</sup> Floor, B-Wing  
 Mahakali Caves Road,  
 Andheri(East), Mumbai 400 030  
 Telephone +91 22 6691 7000  
 Fax +91 226691 7001

**Website** www.hindalco.com  
**E mail** hindalco@adityabirla.com  
**Corporate Identity No.** L27020MH1958PLC011238



| Boiler & Co-Generation Plant, Hindalco - Renukoot |                              |           |           |           |           |           |           |
|---------------------------------------------------|------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| S.NO.                                             | ITEM                         | Oct-24    | Nov-24    | Dec-24    | Jan-25    | Feb-25    | Mar-25    |
| 1                                                 | CAPACITY OF POWER PLANT (MW) | 84Mw      | 84Mw      | 84Mw      | 84Mw      | 84Mw      | 84Mw      |
|                                                   | TOTAL POWER GENERATED (MWH)  | 40645.86  | 44906.58  | 36433.13  | 28825.94  | 26963.73  | 20715.48  |
| 2                                                 | Coal Consumption             | 70296.29  | 69668.68  | 63969.25  | 57915.39  | 54422.60  | 50404.09  |
|                                                   | TOTAL ASH GENERATION (MT)    |           |           |           |           |           |           |
| 3                                                 | FLY ASH( ASH SILO)           | 24949.200 | 23412.080 | 20376.220 | 19498.310 | 18156.280 | 17368.750 |
| 4                                                 | BOTTOM ASH                   | 4063.194  | 3935.916  | 4259.251  | 3406.140  | 4371.327  | 3344.586  |
| 5                                                 | TOTAL ASH GENERATED          | 29012.394 | 27347.996 | 24635.471 | 22904.450 | 22527.607 | 20713.336 |
|                                                   | TOTAL ASH UTILISATION (MT)   |           |           |           |           |           |           |
| 6                                                 | CEMENT INDUSTRY (FLY ASH)    | 24892.600 | 23296.280 | 20327.970 | 19440.510 | 17863.120 | 17326.870 |
| 7                                                 | GREEN AREA DEVELOPMENT       | 2617.184  | 1658.680  | 4241.231  | 57.800    | 0.000     | 41.880    |
| 8                                                 | LOW LYING AREA               | 1653.800  | 2489.550  | 156.270   | 696.540   | 7479.529  | 3368.260  |
| 9                                                 | TOTAL ASH UTILIZATION        | 29163.584 | 27444.510 | 24725.471 | 20194.850 | 25342.649 | 20737.010 |
| 10                                                | TOTAL Ash Utililisation %    | 100.52    | 100.35    | 100.37    | 88.17     | 112.50    | 100.11    |

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E mail hindalco@adityabirla.com  
Corporate Identity No. L27020MH1958PLC011238



Your (**Half Yearly Compliance Report**) has been **Submitted** with following details

|                                        |                                     |
|----------------------------------------|-------------------------------------|
| <b>Proposal No</b>                     | J 11011/929/2008 IA II (I)          |
| <b>Compliance ID</b>                   | 115087492                           |
| <b>Compliance Number(For Tracking)</b> | EC/M/COMPLIANCE/115087492/2025      |
| <b>Reporting Year</b>                  | 2025                                |
| <b>Reporting Period</b>                | 01 Jun(01 Oct - 31 Mar)             |
| <b>Submission Date</b>                 | 30-05-2025                          |
| <b>RO/SRO Name</b>                     | Shri Ashok Kumar Sinha              |
| <b>RO/SRO Email</b>                    | tg035@ifs.nic.in                    |
| <b>State</b>                           | UTTAR PRADESH                       |
| <b>RO/SRO Office Address</b>           | Integrated Regional Offices Lucknow |

**Note:-** SMS and E-Mail has been sent to Shri Ashok Kumar Sinha, UTTAR PRADESH with Notification to Project Proponent.





**Half Yearly Compliance Report  
2025**

**01 Jun(01 Oct - 31 Mar)**

**Acknowledgement**

|                                          |                                                                                                                                                                            |                               |                             |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-----------------------------|
| <b>Proposal Name</b>                     | 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. |                               |                             |
| <b>Name of Entity / Corporate Office</b> | Hindalco Ind Limited Renukoot Dist Sonbhadra U.P. Pin Code 231217                                                                                                          |                               |                             |
| <b>Village(s)</b>                        | N/A                                                                                                                                                                        |                               |                             |
| <b>District</b>                          | SONBHADRA                                                                                                                                                                  |                               |                             |
| <b>Proposal No.</b>                      | J 11011/929/2008 IA II (I)                                                                                                                                                 | <b>Category</b>               | Industrial Projects - I     |
| <b>Plot / Survey / Khasra No.</b>        | N/A                                                                                                                                                                        | <b>Sub-District</b>           | N/A                         |
| <b>State</b>                             | UTTAR PRADESH                                                                                                                                                              | <b>Entity's PAN</b>           | *****1201R                  |
| <b>MoEF File No.</b>                     | J 11011/929/2008 IA II (I)                                                                                                                                                 | <b>Entity name as per PAN</b> | hindalco industries limited |

**Compliance Reporting Details**

**Reporting Year** 2025  
**Remarks (if any)**  
**Reporting Period** 01 Jun(01 Oct - 31 Mar)

**Details of Production and Project Area**

|                                          |                                                                   |                                          |
|------------------------------------------|-------------------------------------------------------------------|------------------------------------------|
| <b>Name of Entity / Corporate Office</b> | Hindalco Ind Limited Renukoot Dist Sonbhadra U.P. Pin Code 231217 |                                          |
|                                          | <b>Project Area as per EC Granted</b>                             | <b>Actual Project Area in Possession</b> |
| Private                                  | 487.1                                                             | 487.1                                    |
| Revenue Land                             | 0                                                                 | 0                                        |
| Forest                                   | 0                                                                 | 0                                        |
| Others                                   | 0                                                                 | 0                                        |
| Total                                    | 487.1                                                             | 487.1                                    |

**Production Capacity**



| Sr. no | Product Name | units                         | Valid Upto | Capacity | Production last year | Capacity as per CTO |
|--------|--------------|-------------------------------|------------|----------|----------------------|---------------------|
| 1      | Co-gen power | MW                            | 31/12/2029 | 94       | 46.80                | 84                  |
| 2      | Aluminum     | Million Tons per Annum (MTPA) | 31/12/2029 | 472,000  | 4,00,822.74          | 420,000             |
| 3      | Alumina      | Million Tons per Annum (MTPA) | 31/12/2029 | 900,000  | 5,61,957             | 720,000             |

## Conditions

### Specific Conditions

| Sr.No.                                                                                                                                                                                                                                                                                                       | Condition Type                            | Condition Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1                                                                                                                                                                                                                                                                                                            | WATER QUALITY MONITORING AND PRESERVATION | Total water requirement after expansion from downstream of Rihand River shall not exceed 45,000 m3/day. Oily wastewater shall be treated in API separator and routed to reclamation pond for recycling. All the treated wastewaters 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. |
| <b>PPs Submission:</b> Complied<br>Freshwater consumption is approx. 24446 KI / day for plant process as well for drinking purpose in plant and colony. Treated ETP and STP effluent is being reused in plant process / horticulture and spraying purpose. We have established ZLD concept in plant process. |                                           | Date: 27/05/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 2                                                                                                                                                                                                                                                                                                            | WASTE MANAGEMENT                          | 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 UPPCB/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.                                                               |
| <b>PPs Submission:</b> Complied<br>Complied with. During the period of October 2024 to March 2025 approx. 637824 MT Red Mud is being sent to Cement Industries, which is approx. 114 percent against the generation of Red Mud.                                                                              |                                           | Date: 27/05/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 3                                                                                                                                                                                                                                                                                                            | GREENBELT                                 | Green belt shall be developed in 33 percent area to mitigate the effects of fugitive emissions as per the CPCB guidelines.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>PPs Submission:</b> Complied<br>Yes, complied with                                                                                                                                                                                                                                                        |                                           | Date: 30/05/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 4                                                                                                                                                                                                                                                                                                            | AIR QUALITY MONITORING AND PRESERVATION   | The gaseous emissions (PM10, SO2, NOx, 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/Nm3.                                                                         |
| <b>PPs Submission:</b> Complied<br>Complied with.                                                                                                                                                                                                                                                                                                                |                                               | Date:<br>27/05/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 5                                                                                                                                                                                                                                                                                                                                                                | MISCELLANEOUS                                 | Fluoride consumption should be less than 10 kg/ton of Aluminium produced as specified in the CREP guidelines.                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>PPs Submission:</b> Complied<br>In Place.                                                                                                                                                                                                                                                                                                                     |                                               | Date:<br>27/05/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 6                                                                                                                                                                                                                                                                                                                                                                | AIR QUALITY<br>MONITORING AND<br>PRESERVATION | The poly-aromatic hydrocarbons (PAH) from the carbon plant (anode bake oven) shall not exceed 2 mg/Nm3. The data on PAH shall be monitored quarterly and report submitted regularly to the Ministry / Regional Office at Lucknow and UPPCB.                                                                                                                                                                                                                                                                                                                                       |
| <b>PPs Submission:</b> Complied<br>Quarterly monitoring is being done by the approved laboratory, the monitoring report is attached as Annexure - V.                                                                                                                                                                                                             |                                               | Date:<br>30/05/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 7                                                                                                                                                                                                                                                                                                                                                                | AIR QUALITY<br>MONITORING AND<br>PRESERVATION | 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 Regional Office at Lucknow and UPPCB. Further dry scrubbing system to control the emissions from the pot lines should be provided.                                                                                                                                                                                                                                                                                     |
| <b>PPs Submission:</b> Complied<br>Fugitive emission monitoring is being done monthly basis at the Roof Top and Center Passage of Pot Line. The report is attached as Annexure VI. Dry Scrubbing system is in place to control emission from the Pot lines. Fugitive emission monitoring is being done on a monthly basis at the roof top / Center of Pot lines. |                                               | Date:<br>27/05/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 8                                                                                                                                                                                                                                                                                                                                                                | Human Health Environment                      | Occupational Health Surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>PPs Submission:</b> Complied<br>Please find attached Periodical Health Check Up Status for the period of October 2024 to March 2025 as Annexure - A conduct in our OHC.                                                                                                                                                                                       |                                               | Date:<br>27/05/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 9                                                                                                                                                                                                                                                                                                                                                                | MISCELLANEOUS                                 | 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; PM10, SO2, NOx (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. |
| <b>PPs Submission:</b> Complied<br>In place.                                                                                                                                                                                                                                                                                                                     |                                               | Date:<br>27/05/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |



|                                                                                                                                                                                                                                       |                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10                                                                                                                                                                                                                                    | AIR QUALITY<br>MONITORING AND<br>PRESERVATION | Electrostatic precipitator(s) shall be provided to kiln and boiler stacks to control gaseous emissions within 50 mg/Nm <sup>3</sup> . 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.                                                                                                                                                                                                                                                  |
| <b>PPs Submission:</b> Complied<br>Quarterly monitoring report for the quarter October 2024 - December 2024 and January 2025 to March 2025 is attached as Annexure - V. Complied                                                      |                                               | Date:<br>30/05/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 11                                                                                                                                                                                                                                    | WASTE MANAGEMENT                              | 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 and 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. |
| <b>PPs Submission:</b> Complied<br>Complied with. Our used Anode Butt is mixed with raw mix for making green Anode. SPL (Carbon and Non-Carbon) is being dispatched to approved re-cyclers / TSDF in compliance of H.W Authorization. |                                               | Date:<br>27/05/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 12                                                                                                                                                                                                                                    | Corporate Environmental<br>Responsibility     | The recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Aluminium sector should be strictly implemented.                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>PPs Submission:</b> Complied<br>We follow the recommendations of CREP.                                                                                                                                                             |                                               | Date:<br>27/05/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 13                                                                                                                                                                                                                                    | PUBLIC HEARING                                | The company shall comply with all the commitment made during public hearing/public consultation held on 24th July, 2009.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>PPs Submission:</b> Complied<br>We have taken actions on an issue which was raised during public hearing.                                                                                                                          |                                               | Date:<br>27/05/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 14                                                                                                                                                                                                                                    | MISCELLANEOUS                                 | Provisions 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, crush etc. The housing may be in the form of temporary structures to be removed after the completion of the project.                                                                                                                                                                                                                                                                                                  |
| <b>PPs Submission:</b> Complied<br>Not applicable                                                                                                                                                                                     |                                               | Date:<br>30/05/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 15                                                                                                                                                                                                                                    | Corporate Environmental<br>Responsibility     | 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.              |

|                                                                                                                                                                                                                                        |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PPs Submission:</b> Complied<br>Complied with.                                                                                                                                                                                      |                                         | Date:<br>27/05/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 16                                                                                                                                                                                                                                     | PUBLIC HEARING                          | At least 5 percent of the total cost of the project shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues and itemwise details along with time bound action plan shall be prepared and submitted to the Ministry Regional Office at Lucknow. Implementation of such a program shall be ensured accordingly in a time bound manner.                                                                                                    |
| <b>PPs Submission:</b> Complied<br>Noted. We have CSR department which is taken care of the social upliftment of nearby areas. Please find attached beneficiaries details for the period of October 2024 to March 2025 as Annexure - B |                                         | Date:<br>27/05/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>General Conditions</b>                                                                                                                                                                                                              |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Sr.No.</b>                                                                                                                                                                                                                          | <b>Condition Type</b>                   | <b>Condition Details</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 1                                                                                                                                                                                                                                      | MISCELLANEOUS                           | The project authorities must strictly adhere to the stipulations made by the Uttar Pradesh State Pollution Control Board and the State Government.                                                                                                                                                                                                                                                                                                                         |
| <b>PPs Submission:</b> Complied<br>All statutory guidelines stated by UPCCB are well complied.                                                                                                                                         |                                         | Date:<br>27/05/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 2                                                                                                                                                                                                                                      | AIR QUALITY MONITORING AND PRESERVATION | The gaseous emission from various process units shall conform to the land/mass based standards notified by this Ministry on 19th 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.                                                                                                                                   |
| <b>PPs Submission:</b> Complied<br>All emissions are monitored as prescribed, and it has been submitted to SPCB / CPCB / MoEF.                                                                                                         |                                         | Date:<br>27/05/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 3                                                                                                                                                                                                                                      | MISCELLANEOUS                           | No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.                                                                                                                                                                                                                                                                                                                                 |
| <b>PPs Submission:</b> Complied<br>We agree that no expansion shall be done without the prior approval of MoEF.                                                                                                                        |                                         | Date:<br>27/05/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 4                                                                                                                                                                                                                                      | MISCELLANEOUS                           | 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. |
| <b>PPs Submission:</b> Complied<br>The cost for environment protection has been earmarked separately.                                                                                                                                  |                                         | Date:<br>27/05/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 5                                                                                                                                                                                                                                      | MISCELLANEOUS                           | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>PPs Submission:</b> Complied<br>Complied with.                                                                                                                                                     |                                           | Date:<br>27/05/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 6                                                                                                                                                                                                     | Noise Monitoring & Prevention             | 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)                                                                                                                                                                                                                                                                                    |
| <b>PPs Submission:</b> Complied<br>The noise level is maintained as per standards. In high noise area PPEs are provided to mitigate the impact. Noise monitoring report is attached as Annexure - VII |                                           | Date:<br>30/05/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 7                                                                                                                                                                                                     | MISCELLANEOUS                             | 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                                                                                                                                                                                                                                                  |
| <b>PPs Submission:</b> Complied<br>We are regularly submitted six monthly compliance report.                                                                                                          |                                           | Date:<br>27/05/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 8                                                                                                                                                                                                     | WATER QUALITY MONITORING AND PRESERVATION | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>PPs Submission:</b> Complied<br>As per CGWB officials, Rainwater harvesting structure is not feasible at this location. Letter is attached as Annexure - IX                                        |                                           | Date:<br>30/05/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 9                                                                                                                                                                                                     | MISCELLANEOUS                             | 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 <a href="http://envfor.nic.in">http://envfor.nic.in</a> . 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. |
| <b>PPs Submission:</b> Complied<br>Complied with.                                                                                                                                                     |                                           | Date:<br>27/05/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 10                                                                                                                                                                                                    | MISCELLANEOUS                             | 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, SO2, NOx (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.        |



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| <b>PPs Submission:</b> Complied<br>Complied with.                                                                                                                                                                                                      |                                           | Date:<br>27/05/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 11                                                                                                                                                                                                                                                     | AIR QUALITY MONITORING AND PRESERVATION   | 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.                                                                            |
| <b>PPs Submission:</b> Complied<br>Four Nos. continuous Ambient Air Quality Monitoring (CAAQMS) have been installed at Renukoot. Quarterly monitoring is also being done by an approved laboratory. The monitoring report is attached as Annexure - V. |                                           | Date:<br>30/05/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 12                                                                                                                                                                                                                                                     | MISCELLANEOUS                             | 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.                                                                                                         |
| <b>PPs Submission:</b> Complied<br>We have compiled all measures as recommended. A separate CSR dept is working for developing social life of nearby villages.                                                                                         |                                           | Date:<br>27/05/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 13                                                                                                                                                                                                                                                     | Statutory compliance                      | 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 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. |
| <b>PPs Submission:</b> Complied<br>The Environment statement for each financial year is regularly submitted to SPCB as prescribed.                                                                                                                     |                                           | Date:<br>27/05/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 14                                                                                                                                                                                                                                                     | WATER QUALITY MONITORING AND PRESERVATION | 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 from time to time. The treated wastewater shall be utilized for plantation purpose.                                                                                                                                                                                                                |
| <b>PPs Submission:</b> Complied<br>We treat all wastewater in our ETP and reused within the plant for process use/Cooling Tower/ Horticulture.                                                                                                         |                                           | Date:<br>27/05/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 15                                                                                                                                                                                                                                                     | MISCELLANEOUS                             | The Ministry may revoke or suspended the clearance, if implementation of any of the above conditions is not satisfactory.                                                                                                                                                                                                                                                                                                                                                              |
| <b>PPs Submission:</b> Complied<br>Noted.                                                                                                                                                                                                              |                                           | Date:<br>27/05/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 16                                                                                                                                                                                                                                                     | MISCELLANEOUS                             | The ministry reserves the right to stipulated additional conditions if found necessary. The company in a time bound manner shall implemented these conditions.                                                                                                                                                                                                                                                                                                                         |

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PPs Submission: Complied<br>Noted.                                                                                                                                                                                                                                       |                      | Date:<br>27/05/2025                                                                                                                                                                                                                                                                                                                                                                                        |
| 17                                                                                                                                                                                                                                                                       | MISCELLANEOUS        | 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.                                                                                                                                                                            |
| PPs Submission: Complied<br>Noted.                                                                                                                                                                                                                                       |                      | Date:<br>27/05/2025                                                                                                                                                                                                                                                                                                                                                                                        |
| 18                                                                                                                                                                                                                                                                       | Statutory compliance | The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and 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. |
| PPs Submission: Complied<br>Noted.                                                                                                                                                                                                                                       |                      | Date:<br>27/05/2025                                                                                                                                                                                                                                                                                                                                                                                        |
| <p style="text-align: center;"><b>Visit Remarks</b></p>                                                                                                                                                                                                                  |                      |                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Last Site Visit Report Date:</b>                                                                                                                                                                                                                                      |                      | N/A                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Additional Remarks:</b>                                                                                                                                                                                                                                               |                      | Please find attached herewith Six-Monthly Compliance Report for the period from October 2024 - March 2025 for Proposal no. J 11011/929/2008 IA II (I)December 2, 2011                                                                                                                                                                                                                                      |
| <p><b>Note:</b> This acknowledgement is as per the details submitted by project proponent. In no way is this document to be considered as conclusion on any action on the compliance of the project. This is strictly for the project proponent's reference purpose.</p> |                      |                                                                                                                                                                                                                                                                                                                                                                                                            |