

May 20, 2021

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. Sonebhadra, U.P. of M/s Hindalco Industries Limited - Environment Clearance Reg.

Dear Sir,

Please find herewith-attached point wise compliance of conditions stated in our earlier environmental clearances granted by Ministry for the period of October 2020 to March 2021 along with six monthly progress report. Also find soft copy of compliance report environmental clearance.

- Compliance letter of Env. Clearance granted vide letter J-111011/929/2008-1A. II (I) dt. 1. December 2, 2011. Please see attached Annexure - I.
- Compliance letter of Env. Clearance granted vide letter J-13012/21/2003-1A. II (T) dt. June 8, 2004. Please see Annexure II. 2
- Our Consent under Water (Prevention & Control of Pollution) Act 1974 which is valid till December 31, 2024 has been already submitted along with our previous compliance 3 report.
- Our Consent under Air (Prevention & Control of Pollution) Act 1981 which is valid till December 31, 2024 has been already submitted along with our previous compliance 4. report.
- Please find attached Copy of Risk Held Cover Letter Public Liability Insurance Policy which is valid till March 31, 2022. Please see Annexure III.
- Copy of Air & Water progress report for last Quarter October 2020 December 2020 & January 2021 March 2021 as submitted to U.P. Pollution Control Board. Please see attached Annexure IV.
- Work Zone monitoring data for the period October 2020 to March 2021. Please see 7. attached Annexure -V
- 8. We have Authorization under Rule 5 of Hazardous and Other Wastes (Management, Handling Transboundry Movement) Rules, 2016, which is valid till June 29, 2021and July 8, 2025.

HINDALCO INDUSTRIES LIMITED Renukoot Works P.O. Renukoot - 231217 Diett, Sonebbadra (U.P.) 7-79/254791-9 GISTERED OFFICE Ira Centre, 1<sup>st</sup> Floor, B-Wing 400 030

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

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- Noise Monitoring done by us on quarterly basis. The Monitoring result for the period October 2020 – December 2020 and January 2021 – March 2021. Please see attached Annexure – VI.
- Fly Ash Utilization details for the period October' 2020 to March' 2021. Please see attached Annexure – VII.

We hope you will please find the above in order.

Thanking you,

Yours faithfully, FOR HINDALCO INDUSTRIES LIMITED

Sm

Mukesh Mittal V.P. (Environment and Safety)

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

HINDALCO INDUSTRIES LIMITED Renukoot Works P. O. Renukoot - 231217 Distt. Sonebhadra (U.P.) Telephone +91 5446 252107 / 252427 +91 5446 252107 / 252427

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### Annexure – I

Name of the Project	:	<b>Project Code: UP–132–333–2012</b> Modernization and expansion of existing Alumina Refinery (660 KTPA to 900 KTPA) and Smelter Plant (356 KTPA to 472 KTPA) at Renukoot, District Sonebhadra in Uttar Pradesh.
Clearance Letter No.	:	J –11011/929/2008 – IA – II (I)
Period of Compliance Report	:	October'2020 to March 2021

### A. SPECIFIC CONDITIONS:

SI. 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> .	Compliance reports are regularly submitted to MoEF /CPCB/SPCB. Complied with.
ii.	The poly-aromatic hydrocarbons (PAH) from the carbon plant (anode bake oven) shall not exceed 2 mg/Nm <sup>3</sup> . The data on PAH shall be monitored quarterly and report submitted regularly to the Ministry / Regional Office at Lucknow and UPPCB.	The PAH monitoring was done by M/s Prakriti, Lucknow in the month of December 2020. The report is attached as Annexure – IV.
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 in Pot Room is attached Annexure – V. Forage Fluoride monitoring is being done by third party once in a year. Please see attached Annexure - A

v.	The proponent shall upload the status of compliance of the stipulated environmental clearance conditions, including monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and SPCB. The criteria pollutant namely; PM <sub>10</sub> , SO <sub>2</sub> , 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.	Complied with.

SI. No	Description	Compliance Status
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 UPCB six monthly.	The emission monitoring is being done by approved laboratory on quarterly basis. The report is attached as Annexure – IV.
vii.	Total water requirement after expansion from downstream of Rihand River shall not exceed 45,000 m <sup>3</sup> /day. Oily wastewater shall be treated in API separator and routed to reclamation pond for recycling. All the treated wastewater shall be treated in ETP and recycled. Closed circuit system with zero discharge concept shall be adopted to control water pollution. No wastewater shall be discharged outside the plant. The domestic wastewater shall be treated in the sewage treatment plant and treated wastewater conforming to the standards for land application shall be reused for green belt development within the plant premises.	We have adopted / implemented various schemes to reduce fresh water consumption. At present fresh water consumption is approx. 24329 KI / day. The treated effluent water and domestic water meets the prescribed standards and reused in various purpose. We have adopted systematic approached for achieving ZLD status at Renukoot.
viii.	Red mud shall be stored in the red mud pond only designed as per the CPCB guidelines with proper leachate collection system and ground water all around the red mud disposal area shall be monitored regularly and report submitted to the 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.	Complied with. We have installed press filter by which % of red mud has been increased to 75%. We have established red mud utilization in Cement Industries, during the year October 2020 To March 2021, approx. 613515 MT of red mud has been supplied to M/s Ultratech Dala, JP Cement Rewa, ACC Cement Kaymore, Dalmia Cement Kalyanpur, Ultratech Cement Bela, ACC Lakheri, Kota Rajasthan, Gujarat Ambuja, Ropar, UTCL, Maihar, UTCL, Siddhi, UTCL–Aditya Cement, Chittorgarh, Prism Johnson and M/s Heidelberg / Diamond, Damoh .

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. 33% 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 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 & Transboundry Movement) Rules 2008. Leachate collection facilities should be provided to the secured landfill facility (SLF). The dross shall be recycled in the cast house.	Complied with. Anode Butts are reused in our Plant. We have stopped operation of Cryolite Recovery Plant from July 1, 2020 as directed by CPCB vide letter No. B-29016 / (55-1094) / 20 / WM -Div. / AR / 1625 dated June 26, 2020. SPL (Non Carbon) material is being sent to TSDF as per authorization issued by UPPCB on July 8, 2020.

SI. No	Description	Compliance Status
xi.	Occupational Health Surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.	We have a separate OHS with a MBBS doctor for doing health check up of workers in continuous basis. Please find attached Periodical Health Check Up Status for the period of October'2020 to March 2021 as Annexure - A
xii.	The recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Aluminium sector should be strictly implemented.	We follow the recommendations of CREP.
xiii.	The company shall comply with all the commitment made during public hearing/public consultation held on 24th July, 2009.	We have taken actions on an issue which was raised during public hearing.
xiv.	At least 5% of the total cost of the project shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office at Lucknow. Implementation of such program shall be ensured accordingly in a time bound manner.	Noted. We have CSR department which is taken care of social upliftment of nearby areas. Please find attached beneficiaries details for the period of October'2020 to March 2021 as Annexure - B
XV.	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets. Safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	We have provided necessary infrastructure and facilities for construction workers.
xvi.	The company shall submit within three months their policy towards Corporate Environment Responsibility which should inter-alia address (i) Standard operating process/procedure to being into focus any infringement / deviation / violation	Complied with.

of environmental or forest norms / conditions, ( Hierarchical system or Administrative order of the company to deal with environmental issue	f
and ensuring compliance to the environmental clearance conditions and (iii) System of reporting of non compliance / violation environmental norms to the Board of Director of the company and/or stakeholders of shareholders.	 f ร

## **B. GENERAL CONDITIONS:**

SI.	Description	Compliance Status
No		
i.	The project authorities must strictly adhere to the stipulations made by the Uttar Pradesh State Pollution Control Board and the State Government.	All statutory guidelines stated by UPCCB are well complied.
ii.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	We agree that no expansion shall be done without prior approval of MoEF.
III.	The gaseous emission from various process units shall conform to the land/mass based standards notified by this Ministry on 19 <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 emission is monitored as prescribed and it has been submitted to SPCB / CPCB / MoEF.
iv.	At least four ambient air quality monitoring satiations should be established in the downward direction as well as where maximum ground level concentration of PM10, SO2 and NOx are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Lucknow and the SPCB / CPCB once in six months.	Complied with. The Ambient Air Monitoring & Stack emission is being done by third party on quarterly basis. Please see attached Annexure IV.
V.	Industrial wastewater shall be properly collected treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 <sup>th</sup> May, 1993 and 31 <sup>st</sup> December, 1993 or as amended form 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	The noise level is maintained as per standards. In high noise area PPE's are provided to mitigate the impact.

	standards prescribed under EPA Rules. 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime)	
vii.	The company shall develop surface water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	As per CGWB officials Rainwater harvesting structure is not feasible at this location.
viii.	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA / EMP and public hearing reports. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.	We have complied all measures as recommended. A separate CSR dept is working for developing social life of nearby villages.

SI. No	Description	Compliance Status
ix.	Requisite amount shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. An implementation scheduled for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Lucknow. The funds so provided shall not be diverted for any other purpose.	The cost for environment protection has been earmarked separately.
х.	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> , 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.	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	We are regularly submitted six monthly compliance report.

	Ministry at Lucknow / CPCB / SPCB shall monitor the stipulated conditions	
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.	each financial year is regularly

SI. No	Description	Compliance Status
xiv.	The project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment and Forests at http:/envfor.nic.in. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional Office at Lucknow.	Complied with.
xv.	Project authorities shall inform the Regional Office as well as the Ministry the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Noted.
10.	The Ministry may revoke or suspended the clearance, if implementation of any of the above conditions is not satisfactory.	Noted.
11.	The ministry reserves the right to stipulated additional conditions if found necessary. The company in a time bound manner shall implemented these conditions.	Noted.
12.	The above conditions shall be enforced, inter- alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Waste (Management, Handling and Transboundry Movement) Rules, 2021 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.	Noted.



Annecure A Prackriti Consultants Security (An ISO 14001:2015, ISO 9001-2015 and ISO 45001:2018 Certified Organizatio Address: 12, Vishnupuri, Church Road, Aligani, Lucknow-2260; Bernai: praktii. mdgrediffinail.co Tel: 0522-4002545, Mobile: 0941551881 OSTIN: - 09AAJPP5925012

### **Test Report for Forage Fluoride**

Repor PCS/F	t No. F/01/2020		Reference PCS/HIL/0			<b>Issue</b> 08/01	
1 Nam	e of Proponent:	M/s Hindalco Indus	tries Limited.	PO- Renükoot, Dist-	Sonebhadra (UP).		
		Aluminium Industry					. •
	or monory.	Clear Sky					
21.1.20	nod of Sampling:	As per Standard Me	thod				
		Mr. Asheesh Kushw	aha & Mr. Sh	ubham Pandey		1.1	
		25/12/2020					
	ple Receipt in Lab:	26/12/2020					
	of Analysis :	27/12/2020-30-12/2	020				
S. No.	Sampling Location	Aerial Distance from Plant site(Km)	Direction	Plant Name	Botanical Name	Con Fluc In (F	ori
1.	Muirpur R.F.	10.9	S	Acacia	Acacia nilotica	30	0.2
2.	Kherahi Village	7.1	SE	Neem	Azadirachta Indica		7.3
3.	Gambhirpur Village	6.2	SE	Grass			8.2
4.	Katauli Village	4.6	E	Cajanus cajan	Red gram, Pigeon pea		0.9
5.	Rantola village	4.0	Е	Moringa oleifera	Drum stick tree		0.3
6.	Downstream of Rihand			Gulmohar	Deloxin Regia	, 18	8.4
	River (intake point)	2.2	W				
7.	Near store office (Plant.II	) 1.2	W	Grass			9.1
8.	Near Guest House	0.3	SW	Pipal	Ficus relisiosa		2.2
9.	Turra village	1.5	SW	Cyanodactylon sp	Dub		2.8
10.	Near WTP	0.5	SW	Bher	Zizyphus Mauritiana		8.1
11.	Hanuman Mandir (Near Hindalco Plant)	0.5	SW	Zizyphus numalarica	Jharberi	2.	3.7
12.	Pipri village	2.5	SW	Grass			0.7
13.	Hindalco colony	0.5	N	Burgad	Ficus Benghalensis		7.1
14.	Murdhawa village	2.0	NE	Mahua	Madhuca Latifolia		1.7
15.	Plant II colony	1.5	NE	Jamun	Sygygium Cumini		8.4
16.	Kharpathar village	2.6	NE	Grass		2	8.1

Authorized Signator ( Dr Divya Misra) Managing Director

"End of this Test Report"

Page – 1 of 1

Services Available Environmental Monitoring, Preparation of ELA/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 UPPCB, MoEF

### Annexure - B

22-May-21

### OCCUPATIONAL HEALTH SERVICES HINDALCO INDUSTRIES LIMITED, RENUKOOT

TO ENVIRONMENT CELL HINDALCO, RENUKOOT

### PERIODICAL HEALTH CHECK UP STATUS

(From Oct -2020 To Mar -2021)

CLINICAL	AUDIOMETRY	SPIROMETRY	VISION SCREENING
3452	91	0	201

(Dr. Bhaskar Datta) Vice President (MS)

0 25 (Dr. Reena Chauhan) Head-OHS & First Aid Centre

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24/1/20

Cc : Shri Mukesh Mittal, V.P. (Safety & Env.)

### HINDALCO-RURAL DEVELOPMENT OUTCOME OF RURAL DEVELOPMENT ACTIVITIES FOR THE PERIOD OF OCTOBER 2020 TO MARCH 2021 OPERATIONAL AREA:- RENUKOOT; OPERATIONAL VILLAGES-180

(A)	EDUCATION AND CAPACITY BUILDING PROGRAMME	Benef.	
	Activities	Dener.	
1	Promotion of Continuing Education	12	
2	Anganwadi/ Balwadi	0	
3	Books and Uniform distribution	0	
4	Technical Education	0	
5	Aditya Bal Vidya Mandirs	700	
6	Career Counselling / Educaional camps	0	
	Sub Total	712	

(B)	Health & Family Welfare Prog.	Benef.
	Activities	Dellei.
1	Hospital / Health Centre own by Company / Trust	11443
2	General Medical Camps	5949
3	Ante & Post Natal Care	2521
4	Immunisation to Infants / Children	4511
5	Pulse Polio Camps	77357
6	STD / RTI, AIDS Awareness & First Aid	347
7	Adolescence Health Care	112
8	Safe Drinking Water	67000
9	Tuberculosis	10
10	Dental Check ups	0
	Sub Total	169250

(C)	ECONOMIC SELF RELIANCE AND WATERSHED DEVELOPMENT	Benef.	
	Activities	Denei.	
1	Vocational Training & support for IGP	359	
2	Agriculture Support Programme	2017	
3	Soil and water consevarion	4133	
4	Animal Husbandry	1612	
5	Women Self Help Groups	300	
6	Social Forestry/ Plantation/ Horticulture	24598	
	Sub Total	33019	

(D)	INFRASTRUCTURAL DEVELOPMENT :	Benef.
	Activities	Denei.
1	School Building	720
2	Community Center	0
3	Sanitation & Hygene	360
4	Roads/ Culverts	3515
5	Wind Mill /Street Lights/ Biogas Plants/ Solar items	0
6	Drinking Wells / Hand pumps	8570
	Sub Total	13165

(E)	SOCIAL UPLIFTMENT AND WOMEN EMPOWERMENT	Benef.
	Activities	Denei.
	Values Promotion camps/Awareness drives on knowledge attitude &	
1	practice	860

	Dowryless marriage programme, marriages solmanised		
2	Social Security	0	
3	Tournament, Festivals and Cultural prog.	908	
4	No of people were provided Blanket	600	
	Sub Total		

(F)	(F) ADITYA BIRLA RURAL TECHNOLOGY PARK, MUIRPUR DEVELOPMENT ACTIVITIES AT THE ADITYA BIRLA RURAL TECHNOLOGY PARK, MUIRPUR		
1	Vocational Training Centre	1	
2	Agricultural Centre	759	
3	Animal Husbandry & VeterinaryHospital (health check ups, immunisations, treatment of cattle, AI etc.)	125	
4	Training of rural people at Capacity Building Centre	602	
5	Treatment at Rural Hospital (daily OPD, operations)	2460	
Sub Total			

G	COVID-19	Benef.	
1	Masks distribution (Nos)	2967	
2	Soap distribution (Nos)	491	
3	Awareness camps organised (Nos)	117	
	Sub Total		
	Grand Total		

Annexure – II

		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'2020 to March 2021

### **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.			
	11)	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.			
	)	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.	given to various Cement Industries and other usages during October'2020 to March

- )-	Conditions	Compliance Status
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 attached reports in the month of December 2020. Please see attached Annexure – C.
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 http://envfor.nic.in	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.

×	(X)	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.
×	(XI)	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

certified Organizati ganj, Lucknow-226 ti md@rediffmail.c	Tel: 0522- 4002545,	oved Laboratory From Ma An ISO 14001:2015, ISO 90	An Appr	м	consultance weather the search
	ter Quality	for Ground Wat	Test Report	0047	ULR- TC824121000000
Issue		b Reference No.			Report No. PCS/GWO/01/2020
• 12/01	nebhadra (LIP)	CS/HIL/01/2020 O- Renukoot, Dist- Sor	dustries Limited, H	M/s Hindalco Ir	1.Name of Proponent:
b.	ishek Tiwari	Bottle am Pandey & Mr.Abhi	Temple mple Collected in Method shwaha, Mr. Shubl 12/2020	As per Standard	2. Type of Industry: 3. Weather Condition: 4. Sampling Location: 5. Quantity of Sampling: 6. Method of Sampling: 7. Sampling Done by: 8. Date of Sampling: 9. Sample Receipt in Lab: 10. Date of Testing:
IS 10500: 2012 - Permissible lin in the absence of al	Requirement (Acceptable	Radha Krishan Temple	Reference Method*	Unit	SI. Parameters No.
NR**	6.5 - 8.5	7.81	4500H+ B 2540 C	- mg/l	1. pH 2. TDS
2000 600	500 200	121 296	2340 C	mg/l	3. Hardness as CaCO <sub>3</sub>
600	200	288	2320 B 4500-Cl,B	mg/l mg/l	<ol> <li>Alkalinity</li> <li>Chloride as Cl</li> </ol>
1000 400	250 200	65.9 5.6	4500-SO4	mg/l	6. Sulphate as SO4
1.5	1.0	0.62 128.0	4500-F,C 3500-Ca,	mg/l mg/l	<ol> <li>Fluoride as F</li> <li>Calcium as Ca</li> </ol>
200	75 30	26.0	3500-Mg,E	mg/l	9. Magnesium as Mg
-	-	50.0	3500-Na,D 3500-K,D	mg/l mg/l	<ol> <li>Sodium as Na</li> <li>Potassium as K</li> </ol>
NR**	45	10.0 4.01	4500-B	mg/l	<ol> <li>Nitrate as NO<sub>3</sub></li> </ol>
1.5	0.05	0.005	3111-Cu- B 3111- Cr-B	mg/l mg/l	<ol> <li>Copper as Cu</li> <li>Chromium as Cr</li> </ol>
NR** NR**	0.05 0.003	0.038 <0.008	3111-Cd- B	mg/l	15. Cadmium as Cd
NR**	0.3	0.18 0.013	3111- Fe-B 3111-Ni- B	mg/l mg/l	<ol> <li>Iron as Fe</li> <li>Nickel as Ni</li> </ol>
NR** NR**	0.02 0.01	0.006	3111-Pb- B	mg/l	18. Lead as Pb
15	5 0.1	1.18 <0.01	3111- Zn-B 3111- As-B	mg/l mg/l	<ol> <li>Zinc as Zn</li> <li>Arsenic as As</li> </ol>
0.5 1.0					21. Residual Free Chorine
I may be tolerated in the ejected.	Authori:			table limit is to be implet, table limit is to be implet, to the limits indicated uny port relate only to the item produced-except in full, we def or any other purpose it ces is not regulatory agene andard Method.	21. Kestdual Free Chorine     21. Kestdual Free Chorine     wester     w
	Water, Soil, Noise & Meteorology mance of STP/ETP, Clearances fr	is Test Report" es Available cline data generation for Air, section, Operation and Mainte ee of E.C., NOC from UPPCB	Servic ration of EIA/EMP, Bas rts, Commissioning, Er	al and Safety Audit repo	Environme Environments

ALC: STM		(An ISO 14	1001:2015, ISO 9001	I-2015 and ISO 45001:2 Tshnupuri, Church Road E-mail: p Tel: 0522-4002	ch Pollution Control Bo 2018 Certified Organizati 1, Aliganj, Lucknow-2266 orakriti_md@rediffmail.c 545, Mobile: 094155188 TIN :- 09AAJFP5925G1
Report No.	Test Re	port for Grour		uality	1
PCS/GWQ/02/2020 1.Name of Proponent:		Lab Referen PCS/HIL/0	1/2020		Issue 12/01/
2.Type of Industry: 3. Weather Condition: 4. Sampling Location: 5. Quantity of Sample: 6. Method of Sampling:	Aluminium Industr Clear Sky Radha Krishna T	emple ofe Collected in Bottle		onebhadra (UP).	•
7.Sampling Done by: 8.Date of Sampling: 9.Sample Receipt in Lab:	Mr. Asheesh Kushy 09/12/2020- 10/12/ 11/12/2020	waha, Mr. Shubham F 2020	andey & Mr.Abl	iishek Tiwari	
10.Date of Testing: SL Parameters No.	12/12/2020 -22/12/ Unit	2020 Reference Method*	Radha Krishan Temple	Requirement (Acceptable	1 IS 10500: 2012 Permissible limit in the absence of alte
22 Colour 23 Odour 24 Taste 25 Turbidity	Hazen	2120 B 2150 A 	Clear Odourless Agreeable 0.6	limit) 5 Agreeable Agreeable	15 Agreeable Agreeable
26 Manganese ( as Mn) 27 Mercury as Hg 28 Total Coliforms 29 Fecal Coliforms *As per APHA/AWWA; 22ed Ed. (20	mg/l mg/l MPN/100ml MPN/100ml	3111-Mn, D 3500-Hg,B 9221 9221	0.05 <0.01 Absent	0.1 0.001 Should b	5 0.3 NR** e absent in any ml sample
*As per APHA/AWWA, 22ad BL (2) Note: It is very summarized but the accept Note: It is very summarized but the accept The results in the Test Bay The results in the Test Bay The results in the Test Bay The result is the Test Bay The result is the Test Bay Test Bay Test Bay Test B	p to the limits indicated under 'pe or trafface only to the issues used, of the only the issues and the d for any other purpose, thing deci- es in not regularity spency hence undard Method.	rmissible' limit in the absence are orditen permission of labora ared by the Sponsor no part of this report should b "End of this Test		Aut	horized Signatory horized Signatory horized Misra) (Dr. DNya Misra) Ianaging Director

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consultants of the second	1	An Approv	ved Laboratory From MoE n ISO 14001:2015, ISO 900	Tel: 0522-4002545	ollution Control Bo Certified Organizat iganj, Lucknow-226 riti_md@rediffmail.
LU D. TC924121000000		Test Report fo	or Ground Wate	er Quality	
ULR-TC824121000000	048				D- TCS
Report No.			b Reference No.		Issu
PCS/GWQ/02/2020 1.Name of Proponent:		The Advancement of the Advanceme	CS/HIL/01/2020 D- Renukoot, Dist- Sone		•. 12/0
<ol> <li>Type of Industry:</li> <li>Weather Condition:</li> <li>Sampling Location:</li> <li>Quantity of Sample:</li> <li>Method of Sampling:</li> <li>Sampling Done by:</li> <li>Bate of Sampling:</li> <li>Sample Receipt in Lab:</li> </ol>	As per Standard	imple Collected in B Method shwaha, Mr. Shubha	Bottle am Pandey & Mr.Abhis	hek Tiwari	k-3
10.Date of Testing:	12/12/2020 -22/	12/2020			
SI. Parameters No.	Unit	Reference Method*	Gopal Hotel	BIS Standar Requirement (Acceptable limit)	d IS 10500: 2012 Permissible I in the absence of a source
1. pH	-	4500H+ B	7.89	6.5 - 8.5	· -NR**
2. TDS	mg/l	2540 C	548	500	2000
<ol> <li>Hardness as CaCO<sub>3</sub></li> <li>Alkalinity</li> </ol>	mg/l mg/l	2340 C 2320 B	308 160	200 200	600 600
5. Chloride as Cl	mg/l	4500-CLB	37.9	250	1000
6. Sulphate as SO <sub>4</sub>	mg/l	4500-SO4	32.4	200	400
	mg/l	4500-F,C	0.42	1.0	1.5
7. Fluoride as F	mg/l	3500-Ca, 3500-Mg,E	124.0	75	200
8. Calcium as Ca	11 000		44.6	30	100
<ol> <li>Calcium as Ca</li> <li>Magnesium as Mg</li> </ol>	mg/l mg/l		40 0		
8. Calcium as Ca	mg/l mg/l mg/l	3500-Na,D 3500-K,D	40.0 31.0		
<ol> <li>Calcium as Ca</li> <li>Magnesium as Mg</li> <li>Sodium as Na</li> <li>Potassium as K</li> <li>Nitrate as NO<sub>3</sub></li> </ol>	mg/l mg/l mg/l	3500-Na,D 3500-K,D 4500-B	31.0 4.08	45	
<ol> <li>Calcium as Ca</li> <li>Magnesium as Mg</li> <li>Sodium as Na</li> <li>Potassium as K</li> <li>Nitrate as NO<sub>3</sub></li> <li>Copper as Cu</li> </ol>	mg/l mg/l mg/l mg/l	3500-Na,D 3500-K,D 4500-B 3111-Cu- B	31.0 4.08 0.004	45 0.05	1.5
<ol> <li>Calcium as Ca</li> <li>Magnesium as Mg</li> <li>Sodium as Na</li> <li>Potassium as K</li> <li>Nitrate as NO<sub>3</sub></li> <li>Copper as Cu</li> <li>Chromium as Cr</li> </ol>	mg/l mg/l mg/l mg/l mg/l	3500-Na,D 3500-K,D 4500-B 3111-Cu- B 3111- Cr-B	31.0 4.08 0.004 <0.05	45 0.05 0.05	1.5 NR**
<ol> <li>Calcium as Ca</li> <li>Magnesium as Mg</li> <li>Sodium as Na</li> <li>Potassium as K</li> <li>Nitrate as NO<sub>3</sub></li> <li>Copper as Cu</li> <li>Chromium as Cr</li> <li>Cadmium as Cd</li> </ol>	mg/l mg/l mg/l mg/l mg/l	3500-Na,D 3500-K,D 4500-B 3111-Cu- B 3111- Cr-B 3111-Cd- B	31.0 4.08 0.004 <0.05 <0.008	45 0.05 0.05 0.05 0.003	1.5 NR** NR**
<ol> <li>Calcium as Ca</li> <li>Magnesium as Mg</li> <li>Sodium as Na</li> <li>Potassium as K</li> <li>Nitrate as NO<sub>3</sub></li> <li>Copper as Cu</li> <li>Chromium as Cr</li> </ol>	mg/l mg/l mg/l mg/l mg/l	3500-Na,D 3500-K,D 4500-B 3111-Cu- B 3111- Cr-B	31.0 4.08 0.004 <0.05	45 0.05 0.05	1.5 NR** NR** NR**
<ol> <li>Calcium as Ca</li> <li>Magnesium as Mg</li> <li>Sodium as Na</li> <li>Potassium as K</li> <li>Nitrate as NO<sub>3</sub></li> <li>Copper as Cu</li> <li>Chromium as Cr</li> <li>Cadmium as Cd</li> <li>Iron as Fe</li> <li>Nickel as Ni</li> <li>Lead as Pb</li> </ol>	mg/l mg/l mg/l mg/l mg/l mg/l	3500-Na,D 3500-K,D 4500-B 3111-Ct-B 3111-Cr-B 3111-Cd-B 3111-Fe-B 3111-Ni-B 3111-Pb-B	$\begin{array}{c} 31.0 \\ 4.08 \\ 0.004 \\ < 0.05 \\ < 0.008 \\ 0.22 \\ 0.014 \\ 0.007 \end{array}$	45 0.05 0.05 0.003 0.3 0.02 0.01	1.5 NR** NR** NR** NR** NR**
<ol> <li>Calcium as Ca</li> <li>Magnesium as Mg</li> <li>Sodium as NA</li> <li>Potassium as K</li> <li>Nitrate as NO<sub>3</sub></li> <li>Copper as Cu</li> <li>Chromium as Cd</li> <li>Icon as Fe</li> <li>Nickel as Ni</li> <li>Lead as Pb</li> <li>Zana Zana Zana Zana Zana Zana Zana Zana</li></ol>	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	3500-Na,D 3500-K,D 4500-B 3111-Ct-B 3111-Ct-B 3111-Cd-B 3111-Cd-B 3111-Fe-B 3111-Pb-B 3111-Pb-B 3111-Zn-B	31.0 4.08 0.004 <0.05 <0.008 0.22 0.014 0.007 1.22	45 0.05 0.05 0.003 0.3 0.02 0.01 5	1.5 NR** NR** NR** NR** 15
<ol> <li>Calcium as Ca</li> <li>Magnesium as Mg</li> <li>Sodium as Na</li> <li>Potassium as K</li> <li>Nitrate as NO<sub>3</sub></li> <li>Copper as Cu</li> <li>Chromium as Cr</li> <li>Cadmium as Cd</li> <li>Iron as Fe</li> <li>Nickel as Ni</li> <li>Lead as Pb</li> </ol>	mg/l mg/l mg/l mg/l mg/l mg/l mg/l	3500-Na,D 3500-K,D 4500-B 3111-Ct-B 3111-Cr-B 3111-Cd-B 3111-Fe-B 3111-Ni-B 3111-Pb-B	$\begin{array}{c} 31.0 \\ 4.08 \\ 0.004 \\ < 0.05 \\ < 0.008 \\ 0.22 \\ 0.014 \\ 0.007 \end{array}$	45 0.05 0.05 0.003 0.3 0.02 0.01	NR** NR** NR* NR*

 Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable, but still may be t absence of an alternative source but up to the limits indicated under 'permissible' limit in the absence of alternative source above which the sources will have to be rejected.

 Note:
 1. The results in the Tost Report relate only to the items tested.

 2. The report shall not be used for any other purpose than declared by the Sponsor

 3. The report shall not be used for any other purpose than declared by the Sponsor

 4. Praktrit' 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

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"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 UPPCB, MoEF

Pras	Consultants &		An Approved Labo	pratory From MoEl 1001:2015, ISO 9001	Tel: 0522-40025	h Pollution Control Bo 018 Certified Organizati
					ую. т	
		Test Re	port for Grou	nd Water Q	uality	
	Report No.		Lab Refere			Issue
	PCS/GWQ/02/2020 1.Name of Proponent: 2.Type of Industry: 3. Weather Condition:	M/s Hindalco Indu Aluminium Indust Clear Sky	PCS/HIL/0 Istries Limited, PO- R ry	1/2020 Lenukoot, Dist- Sc	onebhadra (UP).	. 12/01.
	<ol> <li>4. Sampling Location:</li> <li>5. Quantity of Sample:</li> <li>6.Method of Sampling:</li> </ol>	Gopal Hotel	ple Collected in Bottle	e		k-j
	7.Sampling Done by: 8.Date of Sampling: 9.Sample Receipt in Lab: 10.Date of Testing:	Mr. Asheesh Kush 09/12/2020- 10/12/ 11/12/2020	waha, Mr. Shubham I '2020	Pandey & Mr.Abh	iishek Tiwari	
	SI. Parameters No.	12/12/2020 –22/12 Unit	72020 Reference Method*	Gopal Hotel	Requirement (Acceptable	IS 10500: 2012 Permissible limit in the absence of alte
	22 Colour 23 Odour	Hazen	2120 B 2150 A	Clear Odourless	limit) 5	source 15
	24 Taste 25 Turbidity	NTU	2130 A	Agreeable	Agreeable Agreeable	Agreeable Agreeable
	<ul><li>26 Manganese ( as Mn)</li><li>27 Mercury as Hg</li></ul>	mg/l	3111-Mn, D	0.5 0.06	1 0.1	5 0.3
	28 Total Coliforms 29 Fecal Coliforms	mg/l MPN/100ml	3500-Hg,B 9221	<0.01 Absent	0.001 Should be	NR** absent in any
No	*As per APHA/AWWA; 22nd Ed. (2012 Note: It is recommended that the accepts absence of an alternative source but up to te: I. The results in the Test Report	able limit is to be implemented. to the limits indicated under 'pe t relate only to the items tested	initial in the absence	of alternative source and	100/n	1 sample
No	*As per APHA/AWWA; 22nd Ed. (2012 Note: It is recommended that the accepts absence of an alternative source but up to te: I. The results in the Test Report	2) ** NR= No relaxation, able limit is to be implemented, to the limits indicated under 'pe t relate only to the items tested, duced-except in full, without th for any other purpose than deel is not regulatory agency hence	Values in excess of those men rmissible' limit in the absence e written permission of laborat	tioned under 'acceptable' of alternative source abo tory.	100/m	11 sample
No	*As per APHA/AWWA; 22nd Ed. (2017 Note: It is recommended that the accepts absence of an alternative source but up te: 1. The results in the Test Report 2. The report shall not be repro 3. The report shall not be used 4. Prakrit Consultants Service	2) ** NR= No relaxation, able limit is to be implemented, to the limits indicated under 'pe t relate only to the items tested, duced-except in full, without th for any other purpose than deel is not regulatory agency hence	Values in excess of those men rmissible' limit in the absence e written permission of labors en and by the Sponsor low no part of this report should b	tioned under 'acceptable of alternative source abo tory. e used for legal purpose t	100/n 'render the water not suitable ve which the sources will hav under any circumstances. Auth	I sample but still may be tolerasted in to be rejected. orized Signatory Dr. Divya Misra)
No	*As per APHA/AWWA; 22nd Ed. (2017 Note: It is recommended that the accepts absence of an alternative source but up te: 1. The results in the Test Report 2. The report shall not be repro 3. The report shall not be used 4. Prakrit Consultants Service	2) ** NR= No relaxation, able limit is to be implemented, to the limits indicated under 'pe t relate only to the items tested, duced-except in full, without th for any other purpose than deel is not regulatory agency hence	Values in excess of those men rmissible' limit in the absence e written permission of laborat	tioned under 'acceptable of alternative source abo tory. e used for legal purpose t	100/n 'render the water not suitable ve which the sources will hav under any circumstances. Auth	I sample but still may be tolerated in to be rejected.
No	*As per APHA/AWWA; 22nd Ed. (2017 Note: It is recommended that the accepts absence of an alternative source but up te: 1. The results in the Test Report 2. The report shall not be repro 3. The report shall not be used 4. Prakrit Consultants Service	2) ** NR= No relaxation, able limit is to be implemented, to the limits indicated under 'pe t relate only to the items tested, duced-except in full, without th for any other purpose than deel is not regulatory agency hence	Values in excess of those men rmissible' limit in the absence e written permission of labors en and by the Sponsor low no part of this report should b	tioned under 'acceptable of alternative source abo tory. e used for legal purpose t	100/n 'render the water not suitable ve which the sources will hav under any circumstances. Auth	I sample .but still may be tolerated in to be rejected. 
No	*As per APHA/AWWA; 22nd Ed. (2017 Note: It is recommended that the accepts absence of an alternative source but up te: 1. The results in the Test Report 2. The report shall not be repro 3. The report shall not be used 4. Prakrit Consultants Service	2) ** NR= No relaxation, able limit is to be implemented, to the limits indicated under 'pe t relate only to the items tested, duced-except in full, without th for any other purpose than deel is not regulatory agency hence	Values in excess of those men rmissible' limit in the absence e written permission of labors en and by the Sponsor low no part of this report should b	tioned under 'acceptable of alternative source abo tory. e used for legal purpose t	100/n 'render the water not suitable ve which the sources will hav under any circumstances. Auth	I sample .but still may be tolerated in to be rejected. 
L Na	*As per APHA/AWWA; 22nd Ed. (2017 Note: It is recommended that the accepts absence of an alternative source but up te: 1. The results in the Test Report 2. The report shall not be repro 3. The report shall not be used 4. Prakrit Consultants Service	2) ** NR= No relaxation, able limit is to be implemented, to the limits indicated under 'pe t relate only to the items tested, duced-except in full, without th for any other purpose than deel is not regulatory agency hence	Values in excess of those men rmissible' limit in the absence e written permission of labors en and by the Sponsor low no part of this report should b	tioned under 'acceptable of alternative source abo tory. e used for legal purpose t	100/n 'render the water not suitable ve which the sources will hav under any circumstances. Auth	I sample .but still may be tolerated in to be rejected. 
No	An per APIIAAWWA, 22nd E4 (20) Note: his recommended that the secapt absence of an alternative source but up even of an alternative source but up 2. The report shall note be used 4. Prakriti Consultants Services 5. No deviation as per the Stan	2) ** Nev No relaxation, biel limit is to be implemented to the limits indicated under "po- relate only to the limits indicated under due duced exceept in full, without du duced exceept in full, without du is in on regulatory agency hence and Method.	Values in excess of those men missible limit in the absence e writen permission of laborator in part of this report should b "End of this Test   Services Available	tioned under 'acceptable' of alternative source abo tory. e used for legal purpose t Report''	100/m render the water not suitable we which the sources will hav ander any circumstances. Auth M:	al sample but till may be tolerated in to to be rejected. Dr. Divya Misra) anaging Director
No	An per APHAAWWA, 22nd EE (20) Note: Thi recommended that the secur- basence of an alternative source base up- ter I. The results in the Tase Report 3. The report shall not be used 4. Prakriti Consultants Services 5. No deviation as per the Stan 5. No deviation as per the Stan	2) ** Nev No relaxation, bible limit is to be implemented to the limits indicated under "po- tralate only to the limit stated, and duced except in full, without di for any other purpose than deal is in or regulatory agency hence and Method.	Values in excess of those men rmissible ' limit in the absence written permission of laborator en op art of this report should b "End of this Test   Services Available ELI/VEMR, Baseline data g	tioned under 'acceptable' of alternative source abo tory. e used for legal purpose t Report'' escaptor for Air, Wa encration and Maintenan	100/m render the water not suitable we which the sources will hav ander any circumstances. Auth () M: tter, Soil, Noise & Meteoro tee of STP/ETP, Clearance	norized Signatory but fill may be tolerated in to to be rejected. Dr. Divya Misra) anaging Director
No	An per APHAAWWA, 22nd EE (20) Note: Thi recommended that the secur- basence of an alternative source base up- ter I. The results in the Tase Report 3. The report shall not be used 4. Prakriti Consultants Services 5. No deviation as per the Stan 5. No deviation as per the Stan	2) ** Nev No relaxation, bible limit is to be implemented to the limits indicated under "po- tralate only to the limit stated, and duced except in full, without di for any other purpose than deal is in or regulatory agency hence and Method.	Values in excess of those men missible limit in the absence e written permission of laborator no part of this report should b "End of this Test 1 "End of this Test 1 Services Available (ELV/EMP, Baseline data g missioning, Erection, Ope	tioned under 'acceptable' of alternative source abo tory. e used for legal purpose t Report'' escaptor for Air, Wa encration and Maintenan	100/m render the water not suitable we which the sources will hav ander any circumstances. Auth () M: tter, Soil, Noise & Meteoro tee of STP/ETP, Clearance	norized Signatory but fill may be tolerated in to to be rejected. Dr. Divya Misra) anaging Director

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Dorf No.     Lab Reference No.       S/GWQ/03/2020     PCS/HIL/01/2020       ame of Proponent:     M/s Hindalco Industries Limited, PO- Renukoot, Dist- Sonebhadra (UP).       Aluminium Industry     Aluminium Industry       center Condition:     Clear Sky       ampling Location:     Bijpur More       uantity of Sample:     2. Litre Water Sample Collected in Bottle       ethod of Sampling:     As per Standard Method       mpling Done by:     Mr. Asheesh Kushwaha, Mr. Shubham Pandey & Mr. Abhishek Tiwari       te of Sampling:     09/12/2020 - 10/12/2020       Parameters     Unit     Reference       Method*     Bilpur More       Bils Standard IS 10500°20       Parameters     Unit       Reference     Bilpur More       Imit()     90       Bils Standard IS 10500°20       PH     -       4500H+B     8.09       6.5 - 8.5     N       Hardness as CaCO3     mg/l       2340 C     124       200     250       Hardness as CaCO4     mg/l       90     120       Chloride as C1     mg/l       91     4500-C1B       19.9     250       10     10	2020 nent: M/s F y: Alum tion: Clear tion: Bijpu nple: 2 Litr	r Sky	L F Industries Limited, I	ab Reference No.		
S/GWQ/03/2020     PCS/HIL/01/2020       ame of Proponent:     M/s Hindalco Industries Limited, PO- Renukoot, Dist- Sonebhadra (UP).       and reference No.     PCS/HIL/01/2020       'Aluminium Industry     Clear Sky       cether Condition:     Bijpur More       uantity of Samplie:     2 Litre Water Sample Collected in Bottle       teod of Sampling:     As per Standard Method       mpling Done by:     Mr. Asheesh Kushwaha, Mr. Shubham Pandey & Mr. Abhishek Tiwari       09/12/2020 - 10/12/2020     09/12/2020 - 10/12/2020       Parameters     Unit     Reference Method*       PH     - 4500H+ B     8.09     6.5 - 8.5       TDS     mg/l     2540 C     381     500       Hardness as CaCO <sub>3</sub> mg/l     2340 C     124     200       Alkalinity     mg/l     2320 B     112     200       Alkalinity     mg/l     4500-CLB     19.9     250       Subplate as SQ.     mg/l     4500-SQ,     5.2     200       Fluoride as F     mg/l     4500-SQ,     5.2     200	nent: M/s F y: Alum tion: Clear tion: Bijpu nple: 2 Litr	r Sky	F Industries Limited, I	PCS/HIL/01/2020	nebhadra (UP).	• Iss 12/
Anne of Proponent:     M/s Hindalco Industries Limited, PO- Renukoot, Dist- Sonebhadra (UP).       Aluminium Industry     Aluminium Industry       /eather Condition:     Bijpur More       anne of Sampling:     2 Litre Water Sample Collected in Bottle       ethod of Sampling:     As per Standard Method       mpling Does by:     Mr. Asheesh Kushwaha, Mr. Shubham Pandey & Mr. Abhishek Tiwari       09/12/2020 - 10/12/2020     09/12/2020 - 10/12/2020       Parameters     Unit     Reference Method*       PH     -     4500H+ B       TDS     mg/l     2540 C       Hardness as CaCO <sub>3</sub> mg/l     2540 C       Hardness as CaCO <sub>3</sub> mg/l     2540 C       Alkalinity     mg/l     2320 B       Chloride as Cl     mg/l     4500-CLB       Subphate as SQ,     mg/l     4500-CLB       Plug-     4500-CLB     19.9       250     110     10	nent: M/s F y: Alum tion: Clear tion: Bijpu nple: 2 Litr	r Sky	Industries Limited, I	PCS/HIL/01/2020 PO- Renukoot, Dist- Sor	nebhadra (UP).	
Disple Receipt         09/12/2020           Parameters         Unit         Reference Method*         Bijpur More         BiS Standard IS 10500*20           Parameters         Unit         Reference Method*         Bijpur More         BiS Standard IS 10500*20           Parameters         Unit         Reference Method*         Bijpur More         BiS Standard IS 10500*20           PH         -         4500H+B         8.09         6.5 + 8.5         N           TDS         mg/l         2340 C         381         500         500           Hardness as CaCO <sub>3</sub> mg/l         2340 C         124         200         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500 <th>by: Mr. A</th> <th>re Water S er Standard</th> <th>d Method</th> <th></th> <th>shek Tiwari</th> <th></th>	by: Mr. A	re Water S er Standard	d Method		shek Tiwari	
PH         -         4500H+B         8.09         6.5 - 8.5         Permis           TDS         mg/l         2540 C         381         500         500           Hardness as CaCO3         mg/l         2540 C         381         500         500           Chloride as CI         mg/l         2320 B         112         200         500         500           Sulphate as SO4         mg/l         4500-SO4         5.2         200         10           Fluoride as F         mg/l         4500-SO4         5.2         200         10	in Lab: 11/12	2/2020- 10 2/2020 2/2020 –22	/12/2020	and functions	SHEK TIWAN	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		Unit	Method*	Bijpur More	Requirement (Acceptable	Permissible in the absence of
Hardness as CaCO3         mg/l $2340$ C $381$ $500$ $4200$ Alkalinity         mg/l $2340$ C $124$ $200$ $4100$ $4100$ $112$ $200$ $112$ $200$ $112$ $200$ $112$ $200$ $112$ $200$ $112$ $200$ $112$ $200$ $112$ $200$ $112$ $200$ $112$ $200$ $112$ $200$ $112$ $200$ $112$ $200$ $112$ $200$ $112$ $200$ $112$ $200$ $112$ $200$ $112$ $200$ $112$ $200$ $112$ $200$ $112$ $200$ $112$ $200$ $112$ $200$ $112$ $200$ $112$ $200$ $112$ $112$ $200$ $112$ $112$ $112$ $112$ $112$ $112$ $112$ $112$ $112$ $112$ $112$ $112$ $112$ $112$ $112$ $112$ $112$ $112$ $112$ $112$		-				source NR*
Alkalimity         mg/l         2320 B         112         200           Chloride as C1         mg/l         4500-Cl,B         19.9         250         1           Sulphate as S0 <sub>4</sub> mg/l         4500-S04         5.2         200         1           Fluoride as F         mg/l         4500-F,C         <0.1	CaCO					2000
Chloride as CI         mg/l         4500-CLB         19.9         250         1           Sulphate as SQ <sub>4</sub> mg/l         4500-SQ <sub>4</sub> 5.2         200         1           Fluoride as F         mg/l         4500-F,C         <0.1						600
Sulphate as SO4         mg/l         4500-SO4         5.2         200           Fluoride as F         mg/l         4500-F,C         <0.1						+ 600
Fluoride as F mg/l 4500-F,C <0.1 1.0		mg/l				1000
					1.0	400
Magnesium as Ma	a Ma					200
Sodium as Mg mg/l 3500-Mg,E 26.2 30						100
Potassium as K John Southand 12.0					1	
Nitrate as NO <sub>3</sub> mg/l 4500-B 3.21					40	
Copper as Cu mg/l 3111-Cu P 0.005						NR*
Chromium as Cr mg/l 3111- Cr-B <0.05 0.05			3111- Cr-B			1.5 NR**
Cadmium as Cd mg/l 3111-Cd- B <0.008 0.003	Ĵ					NR**
Midda og Ni						NR**
Lead as Ph mg/1 3111-NI-B 0.011 0.02						NR**
Zinc as Zn mg/1 3111-P0-B 0.006 0.01 NI						NR**
Arsenic as As mg/l 31112 As B cool						15
Residual Free Chorine mg/1 4500-CLB 0.1	Chorine	mg/l	4500-CI B			.0.5
APHA/AWWA; 22nd Ed. (2012) ** NR= No relaxation, is recommended that the acceptable limit is to be implemented. Values in excess of hose mentioned under 'acceptable' render the water not suitable, but still may be toleration of an alternative source but up to the limits indicated under 'permissible' limit in the absence of alternative source obver up to the source but still may be toleration.	2nd Ed. (2012) ** NR=	Munteret	the second s	and designed in the second		1.0

Authorized Signatory

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"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 UPPCB, MoEF

	C m	8	(i ± iii)	Address: 12, V	Tel: 0522- 400254	Aliganj, Lucknow-2 kriti_md@rediffma 15, Mobile: 094155 N :- 09AAJFP5925
		Test Re	port for Gro	und Water Q	uality	
	Report No. PCS/GWQ/03/2020			rence No. /01/2020		Issi
	1.Name of Proponent: 2.Type of Industry:	M/s Hindalco Indu	stries Limited, PO	- Renukoot, Dist- So	onebhadra (UP).	12/0
	3. Weather Condition:	Aluminium Industr Clear Sky	ry			1.
	<ol> <li>Sampling Location:</li> <li>Quantity of Sample:</li> </ol>	Bijpur More 2 Litre Water Sam	ale Collected in Br	attle		
	6.Method of Sampling: 7.Sampling Done by:	As per Standard M	ethod			
	8.Date of Sampling: 9.Sample Receipt in Lab:	09/12/2020- 10/12/ 11/12/2020	waha, Mr. Shubhai 2020	n Pandey & Mr.Abł	iishek Tiwari	
-	10.Date of Testing: SI. Parameters	12/12/2020 -22/12/ Unit	and the second se			
	No.	Unit	Reference Method*	Bijpur More	<u>BIS Standard I</u> Requirement (Acceptable limit)	Permissible lin in the absence of alt
	22 Colour 23 Odour	Hazen	2120 B 2150 A	Clear Odourless	5	source 15
	24 Taste 25 Turbidity	NTU	- 2130 B	Agreeable	Agreeable Agreeable	Agreeable Agreeable
	26 Manganese ( as Mn)	mg/l	3111-Mn, D	0.4 0.02	1 0,1	15 0.3
	28 Total Coliforms	mg/l MPN/100ml	3500-Hg,B 9221	<0.01 Absent	0.001	NR**
L	29 Fecal Coliforms *As per APHA/AWWA; 22nd Ed. (20 Note: It is recommended that the acce absence of an alternative source but t	MPN/100ml	9221	Absent	100/ml	sample
Note	2. The report shall not be rep 3. The report shall not be use	produced-except in full, without the ed for any other purpose than decla ces is not regulatory agency hence	e written permission of lab	oratory. Id be used for legal purpose r	under any circumstances. Autho (D	rized Signatory
		11al Monitoring, Preparation o	Services Avail			

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ULR- TC824121000000	0050	Test Report fo	or Ground Wa	ter Quality	
					// TC4:
Report No. PCS/GWQ/04/2020			b Reference No.		Issu
1.Name of Proponent:	M/s Hindalco In		CS/HIL/01/2020 D- Renukoot, Dist- Sor	aebhadra (UP)	12/0
2. Type of Industry:	Aluminium Indu	istry	S Renaroot, Dist- 301	iconaura (Or).	5-1
<ol> <li>Weather Condition:</li> <li>Sampling Location:</li> </ol>	Clear Sky Shiva Park				
5. Quantity of Sample:		mple Collected in B	Bottle		
6.Method of Sampling:	As per Standard	Method			
7.Sampling Done by: 8.Date of Sampling:	Mr. Asheesh Ku 09/12/2020- 10/	shwaha, Mr. Shubh	am Pandey & Mr.Abhi	ishek Tiwari	
9.Sample Receipt in Lab:	11/12/2020	12/2020			
10.Date of Testing: Sl. Parameters	12/12/2020 -22/				
No.	Unit	Reference Method*	Shiva Park	Requirement (Acceptable	d IS 10500: 2012 Permissible lin in the absence of a
1. pH 2. TDS	-	4500H+ B	7.90	6.5 - 8.5	source NR**
3. Hardness as CaCO <sub>3</sub>	mg/l mg/l	2540 C 2340 C	120 268	500 200	2000 -600
4. Alkalinity	mg/l	2320 B	392	200	600
<ol> <li>Chloride as Cl</li> <li>Sulphate as SO₄</li> </ol>	mg/l mg/l	4500-Cl,B 4500-SO4	78.9	250	1000
7. Fluoride as F			16.2	200	400 1.5
8. Calcium as Ca	mg/l	3500-Ca,	136.0		200
o. Calciulii as Ca	mg/l	3500-Mg,E	32.0	30	100
9. Magnesium as Mg		3500-Na,D	45.0		
<ol> <li>9. Magnesium as Mg</li> <li>10. Sodium as Na</li> </ol>	mg/l	2500 V D	12.0		
9. Magnesium as Mg	mg/l	3500-K,D 4500-B		15	
<ol> <li>Magnesium as Mg</li> <li>Sodium as Na</li> <li>Potassium as K</li> <li>Nitrate as NO<sub>3</sub></li> <li>Copper as Cu</li> </ol>		3500-K,D 4500-B 3111-Cu- B	3.32 0.006	45 0.05	1.5
<ol> <li>Magnesium as Mg</li> <li>Sodium as Na</li> <li>Potassium as K</li> <li>Nitrate as NO<sub>3</sub></li> <li>Copper as Cu</li> <li>Chromium as Cr</li> </ol>	mg/l mg/l mg/l mg/l	4500-B 3111-Cu- B 3111- Cr-B	3.32 0.006 <0.05	0.05 0.05	1.5 NR**
<ol> <li>Magnesium as Mg</li> <li>Sodium as Na</li> <li>Potassium as K</li> <li>Nitrate as NO<sub>3</sub></li> <li>Copper as Cu</li> <li>Chromium as Cr</li> <li>Cadmium as Cd</li> </ol>	mg/l mg/l mg/l mg/l mg/l	4500-B 3111-Cu- B 3111- Cr-B 3111-Cd- B	3.32 0.006 <0.05 <0.008	0.05 0.05 0.003	1.5 NR** NR**
<ol> <li>Magnesium as Mg</li> <li>Sodium as Na</li> <li>Potassium as K</li> <li>Nitrate as NO<sub>3</sub></li> <li>Copper as Cu</li> <li>Chromium as Cr</li> <li>Cadmium as Cd</li> </ol>	mg/l mg/l mg/l mg/l mg/l	4500-B 3111-Cu-B 3111- Cr-B 3111-Cd- B 3111- Fe-B	3.32 0.006 <0.05 <0.008 0.16	0.05 0.05 0.003 0.3	1.5 NR** NR** NR**
<ol> <li>Magnesium as Mg</li> <li>Sodium as Na</li> <li>Potassium as K</li> <li>Nitrate as NO<sub>3</sub></li> <li>Copper as Cu</li> <li>Chromium as Cr</li> <li>Cadmium as Cd</li> <li>Iron as Fe</li> <li>Nickel as Ni</li> <li>Lead as Pb</li> </ol>	mg/l mg/l mg/l mg/l mg/l mg/l mg/l	4500-B 3111-Cu-B 3111- Cr-B 3111-Cf-B 3111-Fe-B 3111-Ni-B 3111-Ni-B 3111-Pb-B	3.32 0.006 <0.05 <0.008	0.05 0.05 0.003	1.5 NR** NR**
<ol> <li>Magnesium as Mg</li> <li>Sodium as Na</li> <li>Potassium as K</li> <li>Nitrate as NO<sub>3</sub></li> <li>Copper as Cu</li> <li>Chromium as Cr</li> <li>Cadmium as Cd</li> <li>Iron as Fe</li> <li>Nitckel as Ni</li> </ol>	mg/l mg/l mg/l mg/l mg/l mg/l	4500-B 3111-Cu- B 3111- Cr-B 3111-Cd- B 3111- Fe-B 3111-Ni- B	3.32 0.006 <0.05 <0.008 0.16 0.013	0.05 0.05 0.003 0.3 0.02	1.5 NR** NR** NR** NR**
7. Fluoride as F	mg/l mg/l mg/l	4500-F,C 3500-Ca,	0.7 136.0 32.0	1.0 75 30	

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 UPPCB, MoEF

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44	sultante ser cico es TM		(All 130	Address: 12, V	/ishnupuri, Church Road E-mail: 1 Tel: 0522- 4002	2018 Certified Organizz d, Aliganj, Lucknow-22 orakriti_md@rediffmail 545, Mobile: 09415518 TIN :- 09AAJFP5925G
		Test Re	port for Gro	und Water Q	uality	
	oort No. S/GWQ/04/2020		Lab Refe PCS/HIL	rence No.		Issue
	ame of Proponent:	M/s Hindalco Indu	stries Limited, PO	- Renukoot, Dist- Se	onebhadra (UP).	12/01
3. W 4. Sa 5. Qi 6.Me	pe of Industry: /eather Condition: ampling Location: uantity of Sample: ethod of Sampling:	Aluminium Industr Clear Sky Shiva Park 2 Litre Water Sam As per Standard M	ole Collected in Bo ethod			j. Jeg
8.Da 9.Sai	mpling Done by: te of Sampling: mple Receipt in Lab:	Mr. Asheesh Kush 09/12/2020- 10/12/ 11/12/2020	2020	n Pandey & Mr.Abl	hishek Tiwari	
10.D Sl.	Pate of Testing: Parameters	12/12/2020 -22/12/ Unit	2020 Reference	Shiva		
No.	Calana		Method*	Park	BIS Stand Requirement (Acceptable limit)	ard IS 10500: 2012 Permissible lim in the absence of alto source
22 23.	Colour Odour	Hazen	2120 B 2150 A	Clear Odourless	5 Agreeable	15 Agreeable
24 25	Taste Turbidity	NTU	- 2130 B	Agreeable	Agreeable	Agreeable
26 27	Manganese ( as Mn)	mg/l	3111-Mn, D	0.3 0.01	1 0.1	5 0.3
28 29	Mercury as Hg Total Coliforms Fecal Coliforms	mg/l MPN/100ml	3500-Hg,B 9221	<0.01 Absent	0.001 Should F	NR** e absent in any
	er APHA/AWWA; 22nd Ed. (201) It is recommended that the accepts ce of an alternative source but up t	able limit is to be implemented. to the limits indicated under 'pe	9221 Values in excess of those r missible' limit in the abse	Absent mentioned under 'acceptable		ml sample
ote:	<ol> <li>The report shall not be repro</li> <li>The report shall not be used</li> <li>Prakriti Consultants Services</li> </ol>	duced-except in full, without th for any other purpose than decla	e written permission of lab	oratory.	4	ive to be rejected.
	5. No deviation as per the Stan	dard Method.		and a more for regar purpose		horized Signatory
						1 Water
						hing
						(Dr. Divya Misra) Ianaging Director
			"End of this Te	st Report"		
			Services Avail	able		
		Monitoring Propagation o			ater, Soil, Noise & Meteor	rology
		nd Safety Audit reports, Con				ces from



# Prakriti Consultants Services

An Approved Laboratory From MoEF & Uttar Pradesh Pollution Control Board, ISO 17025:2017 Accredited by NABL (An ISO 14001:2015, ISO 9001-2015 and ISO 45001:2018 Certified Organization) Address: 12, Vishnuyni, Church Road, Aligan, Lucknow-226024 E-mail: praktiti\_mdQrediffmail.com Tel: 0522-4002545, Mobile: 09415518818, GSTIN :-09AAJFP5925G1ZY

URI	TC8241190000024	<b>Test Report fo</b> 479	r Ground Wate	er Quality Repo	rt (Borewell)	
	ort No.		Lab Refe	erence No.		Issue Date
PCS	PCS/GWQ/05/2020 PCS/HIL/01/2020					08/01/202
2.Ty 3. W 4. Sa 5. Qu 6.Me 7.Sai	me of Proponent: pe of Industry: eather Condition: mpling Location: uantity of Sample: thod of Sampling: npling Done by: to of Sampling:	Aluminum Indu Clear Sky ABIC Near Gu 2 Litre Water Sa As per Standard Mr. Asheesh Ku	dustries Limited, Po stry <b>pta Hotel</b> mple Collected in E Method shwaha, Mr. Shubh	O- Renukoot, Dist-		08/01/202
	te of Sampling:	09/12/2020-10/	12/2020			
	nple Receipt in Lab:	11/12/2020				
	ate of Testing:	12/12/2020 -22/	01/2021			
SI. No.	Parameters	Unit	Reference	ABIC Near	BIS Standard	IS 10500: 2012
			Method*	Gupta Hotel	Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	pH		4500H+ B	7.66	6.5 - 8.5	NR**
2.	TDS	mg/l	2540 C	346	500	2000
3.	Hardness as CaCO <sub>3</sub>	mg/l	2340 C	218	200	600
	Alkalinity	mg/l	2320 B	216	200	600
5.		mg/l	4500-C1,B	53.9	250	1000
6.	Sulphate as SO <sub>4</sub> Fluoride as F	mg/l	4500-SO <sub>4</sub>	56.9	200	400
	Calcium as Ca	mg/l	4500-F,C	0.9	1.0	1.5
8. 9.		mg/l	3500-Са,	72.0	75	200
10.	Magnesium as Mg Sodium as Na	mg/l	3500-Mg,E	34.9	30	100
	Potassium as K	mg/l	3500-Na,D	45.0	a 8	-
	Nitrate as NO <sub>3</sub>	mg/l	3500-K,D	20.0		
	Copper as Cu	mg/l	4500-B	24.2	45	NR**
	Copper as Cu Chromium as Cr	mg/l	3500-Cu, B	0.014	0.05	1.5
	Cadmium as Cd	mg/l	3500-Cr, B	0.068	0.05	NR**
	Iron as Fe	mg/l	3500-Cd, B	< 0.002	0.003	NR**
	Nickel as Ni	mg/l	3500-Fe,D	0.25	0.3	NR**
	Lead as Pb	mg/l	3500-Ni, D	0.008	0.02	NR**
	Zinc as Zn	mg/l	3500-Pb,B	<.0002	0.01	NR**
	Arsenic as As	mg/l	3500-Zn, D	4.156	5	15
	Residual Free Chorine	mg/l	3500-As,B	< 0.002	0.1	0.5
	residual free Chorine	mg/l ) ** NR= No relaxation.	4500-Cl,B	< 0.018	0.2	1.0

It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable, but still may be of an alternative source but up to the limits indicated under 'permissible' limit in the absence of alternative source above which the sources will have to be rejected. 1. 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. Prakrit Consultants Services in our regulatory agency hence no part of this report shuld be used for legal purpose under any circumstances. 5. No deviation as per the Standard Method.

Note:

Authorized Signatory hoght (Dr. Divya Misra) Managing Director

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### "End of this Test Report"

Services Provided Environmental Monitoring, Preparation of EIAIEMP, Baseline data generation for Air, Water, Soil, Noise & Meteorology, Environmental and Safety Audit reports, Commissioning, Erection, Operation and Maintenance of STPIETP, Clearances from Ground Water Board, Compliance of E.C., NOC from UPPCB, MoEF



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PCS/	ort No. /GWQ/05/2020		Lab Refer PCS/HIL/			Issue Da 08/01/202		
	ne of Proponent:	M/s Hindalco Indus	stries Limited, PO	- Renukoot, Dist-	Sonebhadra (UP).			
	e of Industry:	Aluminum Industry	M/s Hindalco Industries Limited, PO- Renukoot, Dist- Sonebhadra (UP). Aluminum Industry					
3. We	eather Condition:	Clear Sky						
4. San	npling Location:	ABIC Near Gupta	Hotel					
5. Qua	antity of Sample:	2 Litre Water Samp		ottle				
6.Met	hod of Sampling:	As per Standard Me						
7.Sam	pling Done by:			m Pandey & Mr A	bhichol Tinyori			
8.Date	e of Sampling:	09/12/2020-10/12/2	Mr. Asheesh Kushwaha, Mr. Shubham Pandey & Mr. Abhishek Tiwari					
9.Sam		11/12/2020	2020					
	pple Receipt in Lab: te of Testing:							
10.Da SI.	ple Receipt in Lab:	11/12/2020	2021 Reference	ABIC Near	BIS Standard I	S 10500; 2012		
10.Da SI. No.	nple Receipt in Lab: te of Testing: Parameters	11/12/2020 12/12/2020 –22/01/ Unit	2021 Reference Method*	ABIC Near Gupta Hotel	BIS Standard I Requirement (Acceptable limit)	S 10500: 2012 Permissible limit in the absence of alternate source		
10.Da SI. No.	nple Receipt in Lab: te of Testing: Parameters Colour	11/12/2020 12/12/2020 –22/01/	2021 Reference		Requirement	Permissible limit in the absence of		
10.Da SI. No. 22 23	nple Receipt in Lab: te of Testing: Parameters Colour Odour	11/12/2020 12/12/2020 –22/01/ Unit	2021 Reference Method*	Gupta Hotel Clear Odourless	Requirement (Acceptable limit)	Permissible limit in the absence of alternate source		
10.Da SI. No. 22 23 24	nple Receipt in Lab: te of Testing: Parameters Colour Odour Taste	11/12/2020 12/12/2020 -22/01/ Unit Hazen	2021 Reference Method* 2120 B 2150 A	Gupta Hotel Clear Odourless Agreeable	Requirement (Acceptable limit) 5	Permissible limit in the absence of alternate source 15		
10.Da SI. No. 22 23 24 25	pple Receipt in Lab: te of Testing: Parameters Colour Odour Taste Turbidity	11/12/2020 12/12/2020 -22/01/ Unit Hazen - NTU	2021 Reference Method* 2120 B 2150 A 2130 B	Gupta Hotel Clear Odourless Agreeable 2.2	Requirement (Acceptable limit) 5 Agreeable	Permissible limit in the absence of alternate source 15 Agreeable		
10.Da SI. No. 22 23 24 25 26	pple Receipt in Lab: te of Testing: Parameters Colour Odour Taste Turbidity Manganese ( as Mn)	11/12/2020 12/12/2020 -22/01/ Unit Hazen - NTU mg/1	2021 Reference Method* 2120 B 2150 A 2130 B 3500-Mn, D	Gupta Hotel Clear Odourless Agreeable 2.2 0.086	Requirement (Acceptable limit) 5 Agreeable Agreeable 1 0.1	Permissible limit in the absence of alternate source 15 Agreeable Agreeable		
10.Da SI. No. 22 23 24 25 26 27	ple Receipt in Lab: te of Testing: Parameters Colour Odour Taste Turbidity Manganese ( as Mn) Mercury as Hg	11/12/2020 12/12/2020 -22/01/ Unit Hazen - NTU mg/l mg/l	2021 Reference Method* 2120 B 2150 A 2130 B 3500-Mn, D 3500-Hg,B	Clear Odourless Agreeable 2.2 0.086 <0.001	Requirement (Acceptable limit) 5 Agreeable 1 0.1 0.001	Permissible limit in the absence of alternate source 15 Agreeable 5 0,3 NR**		
10.Da SI. No. 22 23 24 25 26 27 28	pple Receipt in Lab: te of Testing: Parameters Colour Odour Taste Turbidity Manganese ( as Mn)	11/12/2020 12/12/2020 -22/01/ Unit Hazen - NTU mg/1	2021 Reference Method* 2120 B 2150 A 2130 B 3500-Mn, D	Gupta Hotel Clear Odourless Agreeable 2.2 0.086	Requirement (Acceptable limit) 5 Agreeable Agreeable 1 0.1 0.001 Should be	Permissible limit in the absence of alternate source 15 Agreeable Agreeable 5 0.3		

PIAAWWA 22nd Ed. (2012) \*\* NE\* No relaxation.
PIAAWWA 22nd Ed. (2012) \*\* NE\* No relaxation.
For the acceptable into its obe implemented. Values in excess of hose mentioned under "acceptable" render the water not suitable, but still may be tolerated in the formative source but up to the limits indicated under "permissible" limit in the absence of alternative source above which the sources will have to be registed.
The result in the Text Report relate only to the into much acceptable limit in the absence of alternative source above which the sources will have to be rejected.
The report shall not be used for any output to be into much acceptable limit in the absence of alternative source above which the sources will have to be rejected.
The report shall not be used for any output to be into much acceptable limit in the absence of alternative source above which the sources will have to be rejected.
The report shall not be used for any output put on being the report should be used for legal putpose under any circumstances.
No evaluations are not be shown of Methem on part of this report should be used for legal putpose under any circumstances.

ort should be used for legal purpose under any circumstances.

Authorized Signatory hught (Dr. Divya Misra) Managing Director

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"End of this Test Report"

Services Provided Environmental Monitoring, Preparation of EIAIEMP, Baseline data generation for Air, Water, Soil, Noise & Meteorology, Environmental and Safety Audit reports. Commissioning, Erection, Operation and Maintenance of STPIETP, Clearances from Ground Water Board, Compliance of E.C., NOC from UPPCB, MoEF

consultants Services IM

Prakriti Consultants Services An Approved Laboratory From MoEF & Ultar Pradesh Pollution Control Board, ISO 17025:2017 Accredited by NABL (An ISO 14001:2015, ISO 9001-2015 and ISO 45001:2018 Certified Organization) Address: 12, Vishnupuri, Church Road, Aliganj, Lucknow-226024 E-mail: prakriti md@rediffinail.com Tel: 0522: 4002545, Mobile: 09415518818, GSTIN : 09AAJFP5925G1ZY

UR	L- TC82411900000	Test Re	port for Ground	Water Qualit	y (Borewell)	A Contraction of the second se	
	ort No.		Lab F	Reference No.		Issue D	
PCS	/GWQ/06/2020	PCS/HIL/01/2020				08/01/2	
1.Na	me of Proponent:	M/s Hindalco Ind	M/s Hindalco Industries Limited, PO- Renukoot, Dist- Sonebhadra (UP).				
2.Ty	pe of Industry:	Aluminum Indust	rv	itenukoot, Dist- t	solieoliaura (OP).		
3. W	eather Condition:	Clear Sky					
I. Sa	mpling Location:	Gandhi Park					
	antity of Sample:		2 Litre Water Sample Collected in Bottle				
	thod of Sampling:	As per Standard M		lie			
	npling Done by:						
Da	te of Sampling:	MIT. Asheesn Kusi	nwaha, Mr. Shubham	Pandey & Mr.Al	phishek Tiwari		
		09/12/2020-10/12	2/2020				
0.D	nple Receipt in Lab:	11/12/2020					
SI.	ate of Testing:	12/12/2020 -22/0					
51. No.	Parameters	Unit	Reference	Gandhi	BIS Standard I	S 10500: 2012	
10.			Method*	Park	Requirement (Acceptable limit)	Permissible limi in the absence o	
1.		-	4500H+ B	7.61	6.5 - 8.5	alternate source	
2.	TDS	mg/l	2540 C	312	500	2000	
3.		mg/l	2340 C	208	200	600	
4.	Alkalinity	mg/l	2320 B	206	200	600	
5.	Chloride as Cl	mg/l	4500-Cl,B	57.9	250	1000	
6.	Sulphate as SO4	mg/l	4500-SO4	60.0	200	400	
7.	Fluoride as F	mg/l	4500-F,C	0.8	1.0	1.5	
8.	Calcium as Ca	· mg/l	3500-Са,	80.0	75	200	
9.	Magnesium as Mg	mg/l	3500-Mg,E	31.0	30	100	
10.	Sodium as Na	mg/l	3500-Na,D	48.0		-	
	Potassium as K	mg/l	3500-K,D	16.0	-	-	
12.	Nitrate as NO <sub>3</sub>	mg/l	4500-В	22.0	45	NR**	
	Copper as Cu Chromium as Cr	mg/l	3500-Cu, B	0.014	0.05	1.5	
		mg/l	3500-Cr, B	0.074	0.05	NR**	
15.	Cadmium as Cd	mg/l	3500-Cd, B	< 0.002	0.003	NR**	
	Iron as Fe	mg/l	3500-Fe,D	0.22	0.3	NR**	
17. 18.		mg/l	3500-Ni, D	0.015	0.02	NR**	
	Lead as Pb Zinc as Zn	mg/l	3500-Pb,B	<.0002	0.01	NR**	
20.	Arsenic as As	mg/l	3500-Zn, D	4.168	5	15	
20.		mg/l	3500-As,B	< 0.002	0.1	0.5	
	Residual Free Chorine APHA/AWWA; 22nd Ed. (2012	mg/l	4500-Cl,B	< 0.018	0.2	1.0	

\*As per APHA/AWWA; 22nd Ed. (2012) \*\* NR= No relaxation.
 Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable, but still may be tolerated in the absence of an alternative source above which the sources will have to be rejected.
 2. The report shall not be used for any other purpose than declared by the Sponsor
 4. Practivit Consultant 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

how yo be have (Dr. Divya Misra) Managing Director

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"End of this Test Report"

Services Provided Environmental Monitoring. Preparation of EIAIEMP, Baseline data generation for Air. Water. Soil. Noise & Meteorology. Environmental and Safety Audit reports. Commissioning. Erection. Operation and Maintenance of STPIETP, Clearances from Ground Water Board, Compliance of E.C., NOC from UPPCB, MoEF

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## Prakriti Consultants Services

ved Laboratory From MoEF & Uttar Pradesh Pollution Control Board, ISO 17025.2017 Accredited by NABL. (An ISO 14001:2015, ISO 9001:2015 and ISO 45001:2018 Certified Organization) Address: 12, Vishnupuri, Church Road, Aliganj, Lucknow-22602 E-mail: prakrim\_imd@rediffmail.com Tel: 0522-4002545, Mobile: 09415518818, GSTIN :- 09AAJFP5925G1ZY

	oort No. S/GWQ/06/2020			erence No. ./01/2020		Issue Da 08/01/20
2.Ty 3. W 4. Sa 5. Q 6.Mo 7.Sa 8.Da 9.Sa	ame of Proponent: pre of Industry: /eather Condition: ampling Location: uantity of Sample: ethod of Sampling: mpling Done by: tte of Sampling: mple Receipt in Lab: Jate of Testing:	M/s Hindalco Industries Limited, PO- Renukoot, Dist- Sonebhadra (UP). Aluminum Industry Clear Sky <b>Gandhi Park</b> 2 Litre Water Sample Collected in Bottle As per Standard Method Mr. Asheesh Kushwaha, Mr. Shubham Pandey & Mr.Abhishek Tiwari 09/12/2020- 10/12/2020 11/12/2020 - 22/01/2021		0501/20		
10.0		Unit	Reference	Gandhi	BIS Standard	18 10500, 2012
SI. No.	Parameters		Method*	Park	Requirement (Acceptable limit)	Permissible limit in the absence of
	Colour	Hazen	Method*		(Acceptable limit)	Permissible limit in the absence of alternate source
No.	Colour Odour	Hazen		Park Clear Odourless	(Acceptable limit)	Permissible limit in the absence of alternate source 15
No. 22 23 24	Colour Odour Taste	-	2120 B 2150 A	Clear	(Acceptable limit)	Permissible limit in the absence of alternate source 15 Agreeable
No. 22 23 24 25	Colour Odour Taste Turbidity	NTU	2120 B 2150 A 2130 B	Clear Odourless	(Acceptable limit) 5 Agreeable	Permissible limit in the absence of alternate source 15
No. 22 23 24 25 26	Colour Odour Taste Turbidity Manganese ( as Mn)	NTU mg/l	2120 B 2150 A 2130 B 3500-Mn, D	Clear Odourless Agreeable 2.6 0.092	(Acceptable limit) 5 Agreeable	Permissible limit in the absence of alternate source 15 Agreeable Agreeable
No. 22 23 24 25 26 27	Colour Odour Taste Turbidity Manganese ( as Mn) Mercury as Hg	NTU mg/l mg/l	2120 B 2150 A 2130 B 3500-Mn, D 3500-Hg,B	Clear Odourless Agreeable 2.6 0.092 <0.001	(Acceptable limit) 5 Agreeable Agreeable 1	Permissible limit in the absence of alternate source 15 Agreeable Agreeable 5
No. 22 23 24 25 26	Colour Odour Taste Turbidity Manganese ( as Mn)	NTU mg/l	2120 B 2150 A 2130 B 3500-Mn, D	Clear Odourless Agreeable 2.6 0.092	(Acceptable limit) 5 Agreeable Agreeable 1 0.1 0.001	Permissible limit in the absence of alternate source 15 Agreeable Agreeable 5 0.3

an alternative source but up to the limits indicated under 'permissible' limit in the absence of alternative source above which the sour 1. The results in the 'Fast Report relate only to the items tested. 2. The report shall not be used for any other purpose than declared by the Sponsor 4. Piakran Consultants Services is not regulatory agency hence no part of this report should be used for legal purpose under any circu 5. No devisions are the Shandhard Method. sources will have to be rejected.

Authorized Signatory

for the for the same (Dr. Divya Misra) Managing Director

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"End of this Test Report"

Services Provided Environmental Monitoring, Preparation of EIAIEMP, Baseline data generation for Air, Water, Soil, Noise & Meteorology, Environmental and Safety Audit reports, Commissioning, Erection, Operation and Maintenance of STPIETP, Clearances from Ground Water Board, Compliance of E.C., NOC from UPPCB, MoEF

Caringly yours BBAJAJ Allianz (1)

Date: 30th Apr 2021.

To,

HINDALCO INDUSTRIES LTD AHURA CENTRE, B WING, MAHAKALI CAVES ROAD, ANDHERI, ANDHERI EAST, MAHARASHTRA, MUMBAI-400093

Dear Sir/Madam,

Sub: Held Cover Note

Thank you for your Premium amounting to Rs 1,30,813/- vide RTGS towards insurance premium of Public Liability Act Policy. Subject to Realization of RTGS Transaction.

We hereby confirm to hold you covered under Public Liability Act Policy. As per quote submitted to you.

Renewal of Policy No: OG-21-1919-3304-00000016

Premium: Rs 1,30,813/-

Policy Period: From 01.05.2021 to 30.04.2022

Thanking you and assuring you of the best of our services, always.

Yours Sincerely,

For Bajaj Alliana General Insurance Co. Ltd.



Caringly yours

Date: 30th Apr 2021.

To,

HINDALCO INDUSTRIES LTD AHURA CENTRE, B WING, MAHAKALI CAVES ROAD, ANDHERI, ANDHERI EAST, MAHARASHTRA, MUMBAI-400093

Dear Sir/Madam,

Sub: Held Cover Note

Thank you for your Premium amounting to Rs 4,18,923/- vide RTGS towards insurance premium of Public Liability Policy. Subject to Realization of RTGS Transaction.

We hereby confirm to hold you covered under Public Liability Policy. As per quote submitted to you.

Renewal of Policy No: OG-21-1919-3301-00000007

Premium: Rs 4,18,923/-

Policy Period: From 01.05.2021 to 30.04.2022

Thanking you and assuring you of the best of our services, always.

Yours Sincerely,

For Bajaj Alliana General Insurance Co. Ltd.



Annexure - IV



April 24, 2021

23

The Member Societary, U.P. Pollution Control Board, T.C.12 – V. Vibhuti Khand, Combnagar, <u>LUCKNC</u>W

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

•>:

- The incustry is operating by maintaining all installed air collution 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 monitoriad by an approved approved approved point of quarterly basis os Amrexure - 1.
  - b) Stack omission monitoring is being done by an approved laboratory on quarterly basis is as Amexure – II.

  - d) Please find attached compliance report on recommondation of core committee constituted by Hon'ble NGT as Annexuro – IV.
  - e) Ash generation and utilization for the quarter January 21 to March 21 as mention below.

Menth	Jan-21	Feb-21	Mar'21	
Cencration (M <sup>arc</sup> )	20804.512	<i>1</i> 562.287	14788.630	
Ubhzelión (MT)	18745 536	5057 766	11419 '2	40

HINDRECOM VINTRESELIUTED Regional Varia INDRESUMATION DATION Data Contact Saturation Data Contact And Saturation Data Contact And Saturation 2010 (2017) Temperature And Saturation 2010 (2017) New And Saturation 2010 (2017)	-J. SIGTIFIED OFFICE I Minuta Castler, 11 Ibot. 0445-9 Mahasai Cayna Ruau Andraw/Rual, Muraba 2011,55 Texporte 49, 22 8931 7520 Line Han 22 6061 7001	Desse and lineaka son Email Protocological Contraction Compare Identity for \$78000000000000000000000000000000000000
		गोम्ती मनव बाहतज



April 24 2021 ..

22

The Mumber Secretary J 7 Politition Control Board 7 C 12 - V. Mbhuti Khand, Continager TTCRKCW

Sub: Progress Report under Section 25 / 26 of the Water IPrevention and Control of Pollution) Act 1974 for the quarter (January'21 to March'21).

 The Industrial Effluent Treatment Plant and the Domestic Effluent Treatment Clarit were operated confinuously during the quarter January 21 to March 21. The Details ere as follows

a) The Quantity of treated Effluent Recycled & Reused in KL / Day. March/21 Candary,21 | ebruary'21 vice. 4321 395t 47/9 b) This realed Fiftuent discharged into Murchawa Nation in KL / Day. January,2\* February'21 March 21 Monta 4 Ľ. 0  $\eta_{\rm c}$  . The Guantity of treated Contestic Recycleu & Roused in KL / Day Marth 21 Month January 21 Leptuary 2\* 6466 3903 4645

c). The fireated Domestic discharged into Murdhawa Nollon in KL ( Day, Varus21 Cebruary'21 Month January,21 2985 5927 5500

e). The analysis of the tromed industrial officient and Sewage Efficient coming the cuarter done by approved laboratory is attached as Amtexide = ...

.....<sup>9</sup> WHAT ANY A MARTINE C. GARTERIA OTI - 34 Anna Contro I. Face - Noong Nataku Gran Roza Anatomian. Noonin 20 aau Talaatha - 31 2, 6551 (200 Rox - 44) 205041 (201 1-042-00 KOUSI - 151-MI-20 T. and alter georgeory sea com 1:322,31 F.32.83 F.32 F.32 win. Avia Vieta p.2:325,257 (24): Earlief and 23:217 Tapping: 93 Min 6:2320 fr: 76.7254731 Min (34): 91 0416 752107, 75.427 Eine ेता रहे पर प्रदूषण नियत्रण योग র্তারমান 12 নাঁগা বিষয়ে কল Rold 19-5- 2031 गोकती नवन जन्द्रनज

## WORK ZONE MONITORING RESULT (OCTOBER ' 2020 TO MARCH ' 2021)

SI.	Location	Date	PM	Total Fluoride
No	Location	Date	(µgm/m³)	(µgm/m³)
1	Center of Line- I (Plant-I)	05.10.2020	388.32	284.28
2	Roof Top Line- I (Plant-I)	05.10.2020	326.56	277.43
3	Center of Line- IX (Plant-II)	12.10.2020	297.27	229.24
4	Roof Top Line- IX (Plant-II)	12.10.2020	264.66	228.00
5	Center of Line- XI (Plant-II)	27.10.2020	345.39	203.36
6	Roof Top Line- XI (Plant-II)	27.10.2020	238.96	233.23
7	Caster	21.10.2020	271.97	-
8	Davy Cold Mill	08.10.2020	298.06	-
9	Center of Line- III (Plant-I)	03.12.2020	400.82	273.67
10	Roof Top Line- III (Plant-I)	03.12.2020	352.23	269.70
11	Center of Line- V (Plant-II)	08.12.2020	308.43	246.58
12	Roof Top Line- V (Plant-II)	08.12.2020	223.12	238.50
13	Center of Line- VII (Plant-II)	10.12.2020	340.21	237.42
14	Roof Top Line- VII (Plant-II)	10.12.2020	259.14	267.49
15	Caster	16.12.2020	277.82	-
16	Davy Cold Mill	22.12.2020	353.59	-
17	Center of Line- III (Plant-I)	04.02.2021	368.06	277.59
18	Roof Top Line- III (Plant-I)	04.02.2021	345.47	271.82
19	Center of Line- V (Plant-II)	06.02.2021	315.90	253.17
20	Roof Top Line- V (Plant-II)	06.02.2021	259.55	252.71
21	Center of Line- VII (Plant-II)	15.02.2021	366.38	234.62
22	Roof Top Line- VII (Plant-II)	15.02.2021	280.48	275.25
23	Caster	21.02.2021	278.31	-
24	Davy Cold Mill	22.02.2021	353.59	-

SI.	Location	Date	PM	Total Fluoride
No	Location	Dale	(µgm/m³)	(µgm/m³)
25	Center of Line- II (Plant-I)	10.11.2020	391.41	259.91
26	Roof Top Line- II (Plant-I)	10.11.2020	341.10	284.12
27	Center of Line- IV (Plant-II)	16.11.2020	307.19	232.24
28	Roof Top Line- IV (Plant-II)	16.11.2020	278.05	248.64
29	Center of Line- VI (Plant-II)	24.11.2020	347.99	211.18
30	Roof Top Line- VI (Plant-II)	24.11.2020	310.81	231.39
31	Caster	09.11.2020	257.18	-
32	Davy Cold Mill	18.11.2020	327.75	-
33	Center of Line- I (Plant-I)	11.01.2021	417.43	250.85
34	Roof Top Line- I (Plant-I)	11.01.2021	283.21	260.24
35	Center of Line- VII (Plant-II)	13. 01.2021	280.42	228.75
36	Roof Top Line- VII (Plant-II)	13. 01.2021	247.12	234.06
37	Center of Line- IX (Plant-II)	15. 01.2021	342.30	258.58
38	Roof Top Line- IX (Plant-II)	15. 01.2021	295.56	259.88
39	Caster	06. 01.2021	264.21	-
40	Davy Cold Mill	12. 01.2021	369.72	-
41	Center of Line- I (Plant-I)	11.03.2021	433.40	258.46
42	Roof Top Line- I (Plant-I)	11. 03.2021	330.96	270.45
43	Center of Line- VII (Plant-II)	18. 03.2021	281.26	248.13
44	Roof Top Line- VII (Plant-II)	18. 03.2021	267.79	233.43
45	Center of Line- IX(Plant-II)	30. 03.2021	330.87	251.77
46	Roof Top Line- IX (Plant-II)	30. 03.2021	310.16	256.44
47	Caster	13. 03.2021	265.17	-
48	Davy Cold Mill	20. 03.2021	365.69	-

## Date Of Noise Monitoring: February 15, 2021 In side Factory Premises

SI. No.	Location	Frequency	Noise Level dB (A) (Day Time 4:30 P.M)	Noise Level dB (A) (Night Time 4:00 A.M)
1.	Plant – II ( Main Gate )	Quarterly	70.1 – 72.6	68.2 – 72.0
2.	Plant – I ( Canteen )	do	74.8 – 76.8	69.4 – 73.4
3.	Pot Line – II	do	76.5 – 78.7	67.9 – 68.9
4.	Pot Line – VII	do	71.8 – 73.6	63.2 – 65.9
5.	Pot Line – XI	do	72.8 – 76.9	64.2 - 66.5
6.	Alumina Plant ( Ball Mill )	do	68.0 – 72.0	65.3 – 67.0
7.	Work Shop	do	68.9 – 73.9	61.5 – 64.1
8.	Remelt Shop	do	73.9 – 76.8	62.1 – 63.9
9.	Plant – II ( Main Gate )	Quarterly	70.7 – 72.6	67.8 – 72.9
10.	Plant – I ( Canteen )	do	75.4 – 77.8	68.8 – 70.9
11.	Pot Line – II	do	74.1 – 76.9	60.5 – 62.1
12.	Pot Line – VIII	do	73.9 – 76.6	65.2 – 67.9

## Date Of Noise Monitoring: February 15, 2021 Out side Factory Premises

SI. No.	Location	Frequency	Noise Level dB (A) (Day Time 4:30 P.M)	Noise Level dB (A) (Night Time 4:00 A.M)
1.	Guest House	Quarterly	61.8 – 65.6	55.2 – 57.9
2.	Rimjhim Vatika ( Admn. Colony)	do	69.1 – 70.9	54.9 - 56.6
3.	Hindalco Hospital	do	65.3 – 67.7	53.5 – 55.9
4.	Renukeshwar Mandir	do	68.2 – 72.5	51.2 – 54.3
5.	Mitali Club	do	68.0 - 70.2	52.5 – 55.8
6.	Plant – II Colony	do	65.1 – 68.6	56.7 – 57.9
7.	Aditya Birla Public School	do	65.8 – 67.8	57.6 – 58.3
8.	Plant –II Colony	do	69.9 – 71.5	51.3 – 54.6
9.	Kalyan Bhavan Plant - II	do	64.9 – 67.8	55.7 – 58.3
10.	Kalyan Mandap	do	66.9 - 69.8	52.7 – 53.9
11.	Hindalco Primary School Unit -II	do	67.4–68.9	57.2 – 59.5
12.	Near Gurudwara	do	69.4 – 75.6	58.9 - 60.4

## Date Of Noise Monitoring: November 18, 2020 In side Factory Premises

			Noise Level	Noise Level
SI.	Location	Frequency	dB (A)	dB (A)
No.			(Day Time	(Night Time
			4:30 P.M)	4:00 A.M)
1.	Plant – I	Quarterly	70.06 – 72.18	61.21 – 64.29
	(Main Gate)			
2.	Plant – II (Canteen)	do	73.01 – 81.01	63.10 – 64.10
3.	Pot Line – III	do	76.11 – 78.00	66.10 – 68.12
4.	Pot Line – VI	do	74.01 – 78.03	69.30 – 71.01
5.	Cast House	do	68.01 – 71.03	58.03 - 61.02
6.	Alumina Plant Near Calciner	do	70.00 - 73.00	52.04 - 59.12
7.	Central Lab	do	72.24 – 74.35	66.70 – 69.15
8.	Extrusion Press # 1	do	79.05 - 82.39	74.20 – 76.19
_				
9.	Plant – I	Quarterly	70.06 - 72.18	61.21 – 64.29
	(Main Gate)			
10.	Plant – II (Canteen)	do	73.01 - 81.01	63.10 - 64.10
11.	Pot Line – III	do	76.11 – 78.00	66.10 – 68.12
11.			10.11 - 10.00	00.10 - 00.12
12.	Pot Line – VI	do	74.01 – 78.03	69.30 – 71.01

## Date of Noise Monitoring: November 18, 2020 Outside Factory Premises

SI. No.	Location	Frequency	Noise Level dB (A) (Day Time	Noise Level dB (A) (Night Time
1.	Guest House	Quarterly	4:30 P.M) 68.3 – 71.3	4:00 A.M) 58.0 – 66.0
1.	Guest House	Quarterry	00.3 - 71.3	56.0 - 66.0
2.	Rimjhim Vatika ( Admn. Colony)	do	62.0 - 65.0	52.0 – 55.0
3.	Hindalco Hospital	do	66.5 - 69.2	52.6 - 53.2
4.	Renukeshwar Mandir	do	70.5 – 70.5	60.2 - 66.3
5.	Mitali Club	do	70.2 – 71.0	56.5 - 58.5
6.	Plant – II Colony	do	70.5 – 76.5	54.5 – 57.5
7.	Aditya Birla Public School	do	68.4 – 74.4	53.4 – 55.4
8.	Plant –II Colony	do	69.6 – 74.6	51.6 – 52.6
9.	Kalyan Bhavan Plant - II	do	66.6 – 70.6	50.6 - 53.6
10.	Kalyan Mandap	do	69.3 – 72.3	55.3 – 58.3
11.	Hindalco Primary School Unit -II	do	71.3 – 74.3	54.3 - 56.3
12.	Near Gurudwara	do	67.7 – 69.7	61.7 – 63.7

Annexure -VII

S.NO.	ITEM	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21
1	CAPACITY OF THERMAL POWER PLANT STATION (MW)	84MW	84MW	84MW	84MW	84MW	84MW
	TOTAL POWER GENERATED (MWH)	31101.89	19387.14	23989.14	27490.71	8056.08	28323.48
2	Coal Consumption						
	ASH GENERATION (TONNES)	•					
3	FLY ASH( ASH SILO)	10729.096	9478.068	10945.713	16758.659	6057.768	11856.118
	FLY ASH (WET DEASING)	0.000	0.000	57.751	0.000	0.000	0.000
	TOTAL FLY ASH	10729.096	9478.068	11003.464	16758.659	6057.768	11856.118
4	BOTTOM ASH	2627.572	2240.500	2734.927	4045.853	1504.519	2932.812
5	TOTAL ASH GENERATED	13356.668	11718.568	13738.391	20804.512	7562.287	14788.930
Α	FLY ASH UTILISATION (TONNES)						
6	ASH POND DYKE RAISING	-	-	-	-	-	-
7	CEMENT INDUSTRY	10729.096	9432.444	10945.714	16749.536	6057.768	11416.120
8	FLY ASH From old dyke						
9	BRICK MAKING						
10	Green area devlopment behind Disposal area						
11	AGRICULTURE (IN MUD LAKE AREA)	-	-	-	-	-	-
12	ROAD EMBANKMENTS	-	-			-	-
13	OTHERS (Low land building construction)	-	-	-	-	-	-
14	TOTAL A	10729.096	9432.444	10945.714	16749.536	6057.77	11416.120
В	ASH DISPOSAL (TONNES)						
15	MINE BACK FILLING	_	_	_	_	_	_
16	ASH POND*	2627.572	2286.124	2792.677	4054.976	1504.519	3372.810
17	OTHERS (NEATLY STACKED & PROTECTED)						
18	TOTAL B(TOTAL ASH)	2627.572	2286.124	2792.677	4054.976	1504.519	3372.810
19	TOTAL A&B	13356.668	11718.568	13738.391	20804.512	7562.287	14788.930
20	FLY ASH SEND TO ASH DYKE	0.000	45.624	57.750	9.123	0.000	439.998
21	BOTTOM ASH SEND TO ASH DYKE	-	-	-	-	-	-
22	BOTTOM ASH SEND TO CEMENT PLANT	3812.1	0	0	0	0	0
23	TOTAL ASH UTILIZATION	14541.196	9432.444	10945.714	16749.536	6057.768	11416.120