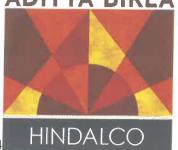
ADITYA BIRLA



Ref. HIL/SBM/MoEF&CC/ 12 70/2024

Date: 26-11-2024

To.

The Director General of Forest (C), Ministry of Environment & Forest and Climate Change, Integrated Regional Office, Ground Floor, Aranya Bhawan, North Block, Sector-19, Naya Raipur, Atal Nagar, Chhattisgarh-492002 Email: iro.raipur-mefcc@gov.in

Sub: - Sub: - Status of compliance of EC condition (Half yearly status of compliance report) in respect of Samri Bauxite Mine (Lease area- 2146.746 Ha.) of M/s Hindalco Industries Limited of Chhattisgarh state for the period from April 2024 - September 2024.

Ref No: - Environment Clearance Letter No-J-11015/353/2007-IA. II (M) dated July 27, 2007

Dear Sir,

We do herewith submit half yearly status of EC compliance report in respect of Samri Bauxite Mine, Lease area - 2146.746 Ha, of M/s Hindalco Industries Limited P.O- Kusmi, Dist.- Balrampur- Ramanujganj, Chhattisgarh state, PIN-497224 for the period from April 2024 - September 2024. The lease details is as below:-

Lease area	Production Capacity	Lease Period
2146.746 Ha.	500000 Tonnes	24.06.1998 to 23.06.2048 (50 years)

We trust that the measures taken towards environment safeguard comply with the stipulated environmental conditions. We assure that we comply all the conditions laid down in the consent letter and also abide to follow all the Rules and Regulations.

Thanking you, Yours's faithfully For, Hindalco Industries Limited

(Sanjay Pardhi)

Agent of Mines

Encl.: As Above

cc: moef.ddn@gmail.com; apccfcentral-ngp-mef@gov.in; eccompliance-cg@gov.in; cpcb.bhopal@gov.in; hocecb@gmail.com;

HINDALCO INDUSTRIES LIMITED Samri Mines, Division, Baba Chowk At & Post - Kusmi, PIN : 497 224, Distt - Balrampur-Ramanujganj (Chhattisgarh) INDIA

REGISTERED OFFICE

21st Floor, One International Center Tower 4. Prabhadevi, Near Prabhadevi Railway Station Senapati Bapat Marg, Mumbai 400 013 Telephone +91 22 694 7 7000 / 6947 7150 IF: +91 22 694 7 7001 / 6947 7090

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

Name of the Project	:	Samri Bauxite Mines (2146.746Ha. Capacity-5.00LTPA), M/s Hindalco Industries Ltd
Environment Clearance No & date	:	J-11015/353/2007 – IA.(IIM) dated 27.07.2007
Period of compliance Report	:	1 st April 2024 to 30 th September 2024

A. Specific Conditions

Condition-1: Environmental clearance is subject to obtaining clearance usnder the Wildlife (Protection) Act, 1972 from the competent authority.

Reply to Condition 1: The Wildlife Management plan has been prepared and approved by competent Authority vide letter no. 12-13-2967 dated 07.10.2013. The copy attached as *Annexure A*.

Condition-2: Environmental clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ petition (Civil) No. 460 of 2004 as may be applicable to this project.

Reply to Condition 2: We agreed to the condition.

Condition-3: Conservation plan for schedule I fauna shall be prepared in consultation with Wildlife Department and submitted to the ministry for record.

Reply to Condition 3: The Conservation plan for schedule I fauna have been prepared and approved by competent authority submitted to ministry. The detail list of flora and fauna along with the approved conservation plan is attached as *Annexure B*.

Condition-4: A comprehensive report on the details of land oustees, their socio- economic profile and action plan for their rehabilitation including formation of self-help group who can facilitate promotion of economic opportunity to local indigenous people shall be submitted to the Ministry for record.

Reply to Condition 4: To encourage and improve local economics company has taken several initiative programme, where local people are being trained to perform different activities viz, making of soaps, detergents, candles, making of leaf plates etc. Under CSR activities SHG groups are formed, in total there are 33 nos of SHGs and 330 Beneficiaries who are directly engaged in income generation activities. *Detailed list of SHG is enclosed as Annexure C*.

Condition-5: Top soil, if any shall be stacked properly with proper slope with adequate safeguards and shall be backfilled (wherever applicable) for reclamation and rehabilitation of mined out area.

Reply to Condition 5: The top soil generated during mining operation is being concurrently spread on backfilled area to restore its original forms immediately. However, when required it is being stacked properly with proper slope followed by parapet wall to prevent sliding.



Backfilling Photos

Condition-6: Over burden (OB) shall be stacked at earmarked dump site (s) only and shall not be kept active for long period. The maximum height of the dump shall not exceed 30m, each stage shall preferably be of 10m and over all slope of the dump shall not exceed 28⁰. The OB dump shall be backfilled. In critical areas, use of geo textiles shall be undertaken for stabilization of the dump. The OB dumps shall be scientifically vegetated with suitable native species to prevent erosion and surface run off. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment & Forests on six monthly basis.

Reply to Condition 6: Presently there is no active OB dump at mines. As per approved Mining Plan OB generated during mine operation is being utilized for concurrent back filling of the mined-out area for reclamation purpose. Small old inactive OB dump of an area of 1.66Ha. has been stabilized by vegetation with suitable native species to prevent erosion and surface run off. Garland drain with check dam have been provided to arrest silt and sediments flowing from above mentioned OB dump.



Plantation in Old OB Dump

Condition-7: Garland drains shall be constructed to arrest silt and sediment flows from soil and mineral dump. The water so collected shall be utilized for watering the mine area, roads, greens belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly.

Garland drain size, gradient and length shall be constructed for both mine pit and for waste dump and sump capacity shall be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity shall also provide adequate retention period to allow proper settling of silt material. Sedimentation pits shall be constructed at the corners of the garlands drains and desilted at regular intervals.

Reply to Condition 7: Garland drains approx. 200m long along with retaining wall of appropriate size (1m height x 0.5m width x 250m length) and gradient have been made around the active mining pits coupled with silt arrester to arrest silt from run-off and drains are being maintained and desilted at regular intervals before monsoon. The Water is being collected in the sump and used for plantation & in sprinkling of the Haul Road. The sump capacity Rainwater pond of adequate capacity has also been developed.



Photographs of garland drains and parapet wall

Condition-8: Slope of the mining bench and ultimate pit limit shall be as per the mining scheme approved by Indian Bureau of Mines.

Reply to Condition 8: The slope of Mining bench is maintained approx. 45° and the height 3-4m and ultimate pit is being maintained as per provision of approved mining scheme. We also ensure that within this pit limit we can mine the deposit economically and safely.

Condition-9: Drilling and blasting (if any) shall be conducted by using dust extractors/wet drilling. **Reply to Condition 9:** Cabin mounted Wet drilling machine is being used in drilling operations. To reduce the dust emission due to blasting we use X-centric ripper instead of blasting.



Condition-10: Plantation shall be raised in 53.87 ha of the ML area, haul roads, OB dump sites etc. Green belt development shall be carried out considering CPCB guidelines including selection of plant spacies and in consultation with the local DFO/Agriculture Department. Herbs and shrubs shall also form a part of afforestation programme beside tree plantation. The density of the trees shall be around 2500 plants per ha. The company shall involve local people with the help of self-help group for plantation.

Reply to Condition 10: We have already achieved the target area asked for plantation. However, we are continuing the plantation to restore the biodiversity. During Apr'24 to Sep'24, total 27344 nos. of saplings have been planted over an area of 10.27 ha. and in total till now about 171.725 ha area has been afforested with approx. 411955 nos. of saplings. The plantation in reclaimed area is carried out as per plan and being carried out as suggested by local government authority. The density is being maintained about 2500 saplings per hectare with the species like Karanj, Arjun, Gulmohar, Bamboo, bakayan, Pears, Jamun, Amla & guava, etc. Apart from this, Tea plantation project has been started in Samri with a focus on Local Economic Development. We planted 16,000 Tea saplings on 2 Ha. of reclaimed land. Social forestry is also being encouraged among the local villagers. Year wise plantation is enclosed as **Annexure D**.



Greenbelt Area



Plant Sampling culture in our Nursery

Condition-11: The project authority shall implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board.

Reply to Condition 11: Six nos. of rainwater harvesting Ponds of an area approx. 7.9Ha. and well of size 5Ft.X10Ft. have been constructed as conservation measures in mined out area for the conservation/augmentation of ground water resources. This further adds to Water Credit of the lease area.



Rain Water Harvesting Pond



Recharge well

Condition-12: Regular monitoring of ground water level and quality shall be carried out by establishing a network of existing wells and constructing new piezometers during the mining operation. The monitoring shall be carried out four times in a year-pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the data thus collected may be sent regularly to MOEF, Central Ground Water Authority and Regional Director Central Ground Water Board.

Reply to Condition 12: Ground water quality monitoring is being carried out regularly on quarterly basis. The analysis reports are being submitted to CECB, Raipur. Regular monitoring of ground water level is being carried out by piezometer installed at strategic location in the lease area and is found below the level of mining operation. The ground water Quality report and the GW level data is attached in *Annexure E*.

Condition-13: Prior permission from the competent authority shall be obtained for drawl of ground water, if any.

Reply to Condition 13: Ground water NOC has been obtained from CGWA vide letter no. CGWA/NOC/MIN/REN/2/2023/7572 dated 03.04.2023 with validity up to 28.04.2025. Also digital

water meters with telemetric system have been installed in the lease area at strategic location for monitoring water consumption. The GW NOC copy attached as *Annexure-F*.

Condition-14: Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transportation ores and others shall have valid permissions as prescribed under Central Motor Vehicle Rules, 1989 and its amendments. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The vehicles transporting ores shall be covered with a tarpaulin or other suitable enclosures so that no dust particles/ fine matters escape during the course of transportation. No overloading of ores for transportation shall be committed. **Reply to Condition 14:** Regular and periodic maintenance of HEMM is being carried out for control of vehicular emission in mines area. The bauxite ore are transported in trucks with tarpaulin cover up to EUP/Railway siding to prevent dust emission. Vehicle used for transportation are having valid permit and PUC. No overloading of ores for transportation is allowed to prevent spillage of material.



Condition-15: A Final Mine Closure Plan, along with details of Corpus Fund, shall be submitted to the Ministry of Environment & Forests, 5 years in advance of final mine closure for approval. **Reply to Condition 15:** We accept the condition. A progressive mine closure plan approved by IBM is in place. IBM is competent authority to approve the final mine closure plan. Based on the present resource estimate, and peak rated production capacity, the tentative balance life of mine is around 37 years. Final Mine closure plan along with details of Corpus fund will be submitted within prescribed timelines in accordance with law to competent authority.

B. General Conditions

Condition-1: No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment & Forests.

Reply to Condition 1: Presently there is no change in technology. In future, when required prior permission will taken from the approval authority.

Condition-2: No change in the calendar plan including excavation, quantum of mineral bauxite ore shall be made.

Reply to Condition 2: Calendar plan (IBM Approved Mining Plan/scheme) prepared for the mine is being followed.

Condition-3: Conservation measures for protection of flora and fauna in the core and buffer zone shall be drawn up in consultation with the local forest and wildlife department.

Reply to Condition 3: Company has already deposited Rs.1.6 crore to competent authority for the implementation of measures for the protection of flora and fauna under approved wildlife conservation plan. The suggestions of local forest department are being implemented for conservation of flora and fauna in and around lease hold area. Important measure being implemented for conservation of flora and fauna are as follows.

- a) Company has provided solar LED torch and florescent Jackets to Staff of forest department, Ambikapur for patrolling and monitoring the movement of wildlife, encroachment, cutting, poaching, fire etc.
- b) Veterinary camp is being conducted for immunization of cattle with the help of block veterinary staff.
- c) Awareness program related to wildlife conservation is being conducted.
- d) Eco-development activities like poultry, piggery, bee keeping etc. are being organized.
- e) Controlled blasting is being carried out to reduce vibration and noise. Such operation is being carried out in day time only and its use is minimized.
- f) Plantation is regular activity along with the development of greenbelt all around the Lease Area
- g) "Aditya Udyan" has been developed on 2.6 Ha. of Reclaimed land and a wide variety of fruits saplings like Mango, Guava, Litchi and pears are planted along with a centrally developed Rose garden.
- h) Integrated Fish Farming has been started at Aditya Udyan, Gopatu in Samri operational area and 25000 fish spawns has been released, with an objective to help the local communities for diversification of Income Sources. This has been done in consultation with Govt. body.

- i) With a vision on sustainability, we have also developed a BioPak that transcends the bounds of traditional parks. With 15 acres of reclaimed mined land this please is a testament to the resilience of nature and a beacon for the future. This has been developed with an objective of Economic development, Environmental education, Health and recreation and a place for community engagement and further to pave way for Mine tourism – an upcoming concept of time.
- j) We have also carried out plantation outside our lease area in various School, NGOs etc. on special occasion as an initiative to spread awareness about the importance of afforestation.





Aditya Udyan







Samri Bio-Park

Condition-4: Four ambient air quality-monitoring stations shall be established in the core zone as well as in the buffer zone for RPM, SPM, SO₂, NOx, monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.

Reply to Condition 4: Ambient Air quality monitoring has been established at strategic locations and the monitoring is being carried out as per guidelines. For the purpose, we have engaged NABL accredited laboratory M/s. Anacon Laboratories Pvt. Ltd. for conducting regular environmental monitoring. Analysis Report (from Apr' 24 to Sep' 24) is enclosed as *Annexure-G*.

Condition-5: Data on ambient air quality (RPM, SPM, SO₂, and NOx) should be regularly submitted to the Ministry including its Regional office located at Bhopal and the State Pollution Control Board / Central Pollution Control Board once in six months.

Reply to Condition 5: Data of ambient air quality (RPM, SPM, SO2, and NOx) are being submitted to Ministry and CECB in every Six month as per guidelines. Data of ambient air quality (RPM, SPM, SO2 and NOx) from Apr' 24 to Sep' 24 is enclosed as *Annexure-G*.

Condition-6: Fugitive dust emission from all the sources shall be controlled regularly. Water spraying arrangements on haul roads, loading and unloading and at transfer points shall be provided and properly maintained.

Reply to Condition 6: Wet drilling, regular water spraying with 12 KL portable water tanker in the mine lease hold area is being carried out regularly to control the fugitive emission at source. Rainwater collected into the mine pit is being utilized for dust suppression purpose. Black top road has been constructed up to pit head to reduce dust problem.



Water Sprinkling in haul road



Black top Road to the mines

Condition-7: Measures shall be taken for control of noise levels below 85dBA in the work environment. Workers engaged in operations of HEMM, etc. shall be provided with ear plugs / muffs. **Reply to Condition 7:** The noise level in working area is being maintained below the prescribed limit. As protective measures, workers engaged in operations of HEMM, etc. is being provided with ear plugs / muffs. The proper maintenance of HEMM is being carried out to control noise emission.



Plantation for Noise Acoustic barrier

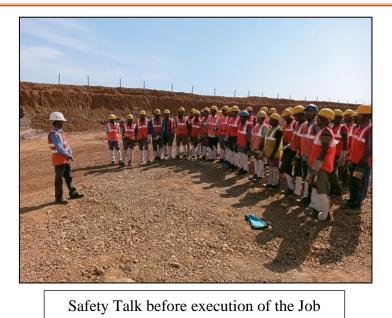
Condition-8: Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. Oil and grease trap shall be installed before discharge of workshop effluents.

Reply to Condition 8: There is no waste water generated from the mining operation. So, there is no liquid discharge from mine. Waste water generated from the workshop is being treated in the Oil & grease separation Pit and the water after treatment is being used in dust suppression in the haul road.

Condition-9: Personal working in dusty areas shall be provided with protective respiratory devices and they shall also be imparted adequate training and information on safety and health aspects.

Reply to Condition 9: Company has provided adequate personal protective equipment to all workers and it is also ensured that they use the same. Regular awareness training are also being imparted to them for safety & health in our Group vocational training Centre as per guidelines.

All employees working in our mining lease area, undergo IME/PME at regular interval to observe any contractions due to exposure to dust and other occupational hazards.



Condition-10: Occupational health surveillance program of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.

Reply to Condition 10: Periodical and Initial medical examination of all workers are being carried out as per provision of Mines Act. IME carried out during the joining of the candidate and the PME is carried out in every 3 years.

Condition-11: A separate environmental management cell with suitable qualified personnel shall be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.

Reply to Condition 11: Environment cell is already in place at Samri Mines Division headed by Head (Mines) and comprises of suitable qualified persons. Constitution of Environment Management cell is enclosed in *Annexure-H*.

Condition-12: The project authorities shall inform to the Regional Office of the Ministry located at Bhopal regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.

Reply to Condition 12: The requisite documents have been submitted to the regional office of the Ministry, Bhopal before commencement of development & operation in 1999. However, as the current regional office has changed to Raipur region, we are again resubmitting the information to the IRO Raipur vide letter no. HIL/SBM/MoEF&CC/1202/2024, dated 20-03-2024.

Condition-13: The funds earmarked for environmental protection measures shall be kept in separate account and should not be diverted for other purpose. Year wise expenditure shall be reported to the Ministry and its Regional Office located at Bhopal.

Reply to Condition 13: Adequate fund provision is already earmarked for environmental protection measures and will not be diverted to other purpose. The year wise expenditure is being submitted to concern authorities as per guidelines.

The copy of environment expenditure is enclosed as Annexure J.

Condition-14: The project authorities shall inform to the Regional Office located at Bhopal regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development.

Reply to Condition 14: The requisite documents have been submitted to the regional office of the Ministry, Bhopal before commencement of development & operation in 1999. However, as the current regional office has changed to Raipur region, we are again resubmitting the information to the IRO Raipur vide letter no. HIL/SBM/MoEF&CC/1202/2024, dated 20-03-2024.

Condition-15: The Regional Office of this Ministry located at Bhopal shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data/information/ monitoring reports. **Reply to Condition 15:** All cooperation is being extended to regulatory authorities.

Condition-16: A copy of clearance letter will be marked to concerned Panchayat / local NGO, if any, from whom suggestion / representation has been received while processing the proposal. **Reply to Condition 16:** We have forwarded the copy of clearance letter to Gram Panchayat of Samri, Gopatu, Amtahi vide letter no. HIL/CECB/37/EXP/07-08 on 13-08-2007. The copy of same has already been submitted to your good office.

Condition-17: State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and Collector's office/Tehsildar's office for 30 days. **Reply to Condition 17:** The copy has been displayed by CECB in Surguja Collectorate.

Condition-18: The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days

of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of the Ministry of Environment and Forests at <u>http://envfor.nic</u> and a copy of the same shall be forwarded to the Regional Office of this Ministry located Bhopal.

Reply to Condition 18: The information regarding environment clearance has been published in two local newspapers Hari Bhumi & Ambika Vani. The copy of same has been already submitted to your good office. News paper clip is enclosed in *Annexure I*.

Condition-19: The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.

Reply to Condition 19: Noted.

Condition-20: Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986. **Reply to Condition 20:** Noted.

Condition-21: 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 and the Public Liability Insurance Act, 1991 along with their amendments and rules.

Reply to Condition: Noted.

प्रमाक/व प्रा /प्रयम- 12/13/ 2967 प्रति. संचालक, इन्वायरनमेंट क्लीयरें श सेल भारत सरकार, वन एवं पर्यावरण मंत्रालय, पर्यावरण भवन, सी.जी.ओ. काम्प्लेक्स, लोधी रोड़, नई दिल्ली–111003 विषय :- छत्तीसगढ़ के बलरामपुर जिले (तत्कालीन सरगुजा माईन्स, कुदाग बॉक्साईट माईन्स एवं टाटीझरिया बॉ इंन्वायरमेंट क्लीयरें स । संदर्भ:- 1. पर्यावरण व वन मंत्रालय, मारत सरकार का पत्र क्रमां 27 जुलाई 2007.	क), छन्ती रायपुर 71-255222 रायपु रायपु	२१गढ - Fax (1771 र दिनाक ८) र दिनाक सा	
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कृपया आपके उपरोक्त संदर्भित पत्रों का अवलोकन करने क	न कप्ट करें।	जिसके दार	बलरामपर जिले
(पुराने सरगुजा जिले) के सामरी बॉक्साईट खुली खदान (1 LTPA) की क्षमता			*)
खदान (0.4 LTPA) की क्षमता बढ़ाकर (0.6 LTPA) करने तथा टाटीझरिया बॉक			- *3
(4 TPA) करने के परियोजना प्रस्ताव के संबंध में वन्य प्राणी (संरक्षण) अधिनियम			
हेतु "वन्य प्राणी संरक्षण व प्रबंधन योजना" तैयार की जाकर इस कार्यालय			
1. विषयांकित परियोजना हेतु खदान के लीज के अनुबंध वि		27 12 12	
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IA.II/M दिनांक 27 जुलाई, 2007 द्वारा 2146.746 हे. में, कु			100 million (100 million)
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दिनांक 9 अगस्त 2007 द्वारा 1218.762 हे. में बॉक्साईट खन	न की स्वीकृ	ते प्राप्त कर	संस्था द्वारा खन
का कार्य किया जा रहा है।			
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Vijag/Sterm/Probandh			11.525
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वर्तमान प्रस्ताव में उपरीक्त लिक राजना के का तीमकी के लिये 10 मध्य में महाले 50 (PTA 50.000 TPA से बढाकर 4.00.000 HPA 1 ()। प्रसाधित है। भारत सरकार पर्यावरण व वन मञालय के द्वारा उपरोक्त जाय हुन् प्रथम तरण की स्वीकृति कमण आदेश क्रमाक 1-11015/353/2007-IA.II/M दिनांक 27 जुलाई 2007 / 11015/354/2007-IA.II/M दिनांक 27 जुलाई 2007 एव J-11015/337/2007-IA.II/M ि:-II-0 र अगरत 2007 द्वारा कुछ शर्ती के साथ दी गई है. जिसमें एक महत्वपूण शर्त यह भी उल्लेखित है कि संबंधित क्षेत्र में वन्य प्राणी (संरक्षण) अधिनियम के शेड्यूल 1 के पाये जाने वाले वन्य प्राणियों के संरक्षण हेतु प्रबंध योजना तैयार की जाकर राज्य के मुख्य वन्य जीव अभिरक्षक के अभिमत सहित प्रस्तुत किया जाये। जिसके पालन में संस्था द्वारा एक बेन्य प्राणी संरक्षण योजना तैयार की गयी है।

खनन क्षमता बढ़ाने से संबंधित प्रस्तावित तीनों ही परियोजनाओं के एक दूसरे से 4 कि.मी. की परिधि में रिथत होने एवं सभी के बफर क्षेत्र ओवरलैपिंग होने के कारण सभी के लिये संयुक्त रुप से वन्य प्राणी संरक्षण व प्रबंधन योजना तैयार की जाकर महाप्रबंधक, (खादान), हिन्डालको इन्डरिट्रीज के पत्र क्रमांक HIL/SAM/300/2013 दिनाक 2.03.2013 द्वारा प्रस्तुत किया गया है जिसका समग्र रुप से परीक्षण किया गया। प्रस्तावित परियोजनाओं के कोर क्षेत्र से 10 कि.मी. की परिधि में आने वाले ओवरलैपिंग बफर क्षेत्र में वन्य प्राणियों एवं उपलब्ध वनस्पतियों का सर्वे किया जाकर पाये गये स्पेसिज को परियोजना प्रस्ताव में अनेक्सूर-4 के में उल्लेखित किया गया है।

3.

उल्लेखित सूचि में वन्य प्राणी (संरक्षण) अधिनियम के शेड्यूल 1 के वन्य प्राणी नहीं पाये गये हैं। परंतु इस कार्यालय द्वारा वन संरक्षक (वन्य प्राणी), सरगुजा से विगत दस वर्षों में वन्य प्राणियों द्वारा की गई क्षति की जानकारी चाही गयी। वन संरक्षक ने अपने पत्र क्रमांक 749 दिनांक 24.05.2012 से यह जानकारी उपलब्ध कराया है कि उक्त क्षेत्र में हाथियों का वर्ष 2005 में दो बार, वर्ष 2006 में आठ बार, 2007 में एक बार, 2008 में दो बार, 2009 में सात बार आना जाना हुआ है। इसी प्रकार भालुओं के द्वारा वर्ष 2007–08 में आठ, वर्ष 2008–09 में पॉच, वर्ष 2009–10 में छैं: एवं 2010–11 में 4 जनहानि व जनघायल के प्रकरण तथा वर्ष 2007–08 तथा 2008–09 में तेंदु<u>आ द्वा</u>रा पशु हानि के दो प्रकरण तथा लकड्बर्ग्धे के कारण एक प्रकरण दर्ज किये गये हैं। इस प्रकार वन्य प्राणी (संरक्षण) अधिनियम के शेड्यूल 1 के उपरोक्त उल्लेखित वन्य प्राणियों के परियोजना क्षेत्र में आने जाने के प्रमाण पाये गये है। प्रस्तावित क्षेत्र से 6 से 7 कि.मी.की दूरी पर झारखंड राज्य में भेड़िया अभ्यारण्य भी स्थापित है। अतः संस्था द्वारा दस वर्षों के लिये वन्य प्राणी संरक्षण व प्रबंध योजना श्री पी. के. सेन पूर्व वन्य प्राणी अभिरक्षक, झारखंड से तैयार कराया जाकर प्रस्तुत किया गया है। जिसका समग्र व विस्तृत अध्ययन किया गया। प्रबंधन योजना में प्रस्तावित प्रबंधन संबधित मुख्य गतिविधियों का विवरण निम्नामुसार है। योजना में वन्य प्राणियों के लिये जलग्रहण क्षेत्र विकास, रहवास–विकास, पेयजल व्यवस्था, विभाग के क्षेत्रीय अमले के सहयोग से क्षेत्र में पेट्रोलिंग व मॉनिटरिंग, अग्नि सुरक्षा, ईको विकास की गतिविधियॉ,

रथानीय ग्रामीणों के लिये आजीविका, सृजन, टीकाकरण, जनजागृति कार्यकम जैसी गतिविधियां का

समावेश करते हुये 04 वर्षों के लिए संहेंग संहार कर नाफ अवधानित की गयी है। जिसका क्रियान्ययन वन विभाग के द्वारा किया जायेगा। प्रश्तान में प्रात्मी कि तजर का विवरण निम्नानुराह हे –

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Sr.	Works to be done	and the second se	st he Lot	in prosts (Rs. In lak	ha]	Remarks
10-		1" Year	Year	Year	4° Year	Total	142
1	Plantation including soil and moisture Conservation works as per norms of forest department surrounding the lease hold	5.00	5.00	4.00	5.00	20.00	
2	Silvicultural Operation on degraded forest Land and cut back in rooted waste	2.00	2.00	2.00	2.00	8.00	
3	Habitat Management Eradication of unwanted species in buffer Zone area, Fire Protection work including wages for fire watchman, Creation of Fire line etc. surrounding lease hold and in buffer area.	2.50	2.50	2.50	2.50	10.00	9 15 8
4	Monitoring - One Staff of forest department to monitor movement of wild life, encroachment, illicit cutting,poaching, fire etc. including Salary of 1 staff	3.00	3.00	3.00	3.00	12.00	
5	Construction of water holes, their maintenance and patrolling (One per Annum)	10.00	10.00	10.00	10.00	40.00	
6	Eco-development activities like poultry, piggery, bee keeping etc.	_ 5.00	5.00	5.00	5.00	20.00	
7	Vocational Training to weaker section, females, old persons and minors of the surrounding villages- in three centre in <u>the buffer Zone</u> of the mining lease @ 50000/- per centre.	3.00	3.00	3.00	3.00	12.00	<u>, </u> ,
3	Veterinary camp for immunization of Cattle with the help of block veterinary sataff.	-2.00	2.00	2.00	2.00	8.00	
9	Awareness Programme including Signages, distribution of Pamphlets- related to wild life conservation etc.	2.50	_ 2.50	2.50	2.50	10.00	
10	Provision for conservation of Biodiversity among flora and fauna of the area & Preparation of Biodiversity register	20.00	0.00	0.00	0.00	20.00	The amount is to be deposited in the account of Biodiversity Board as this work is to be done by Bio- diversity management committees
			35.00				(BMC's)

238

Vijay/Stena/Pn

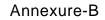
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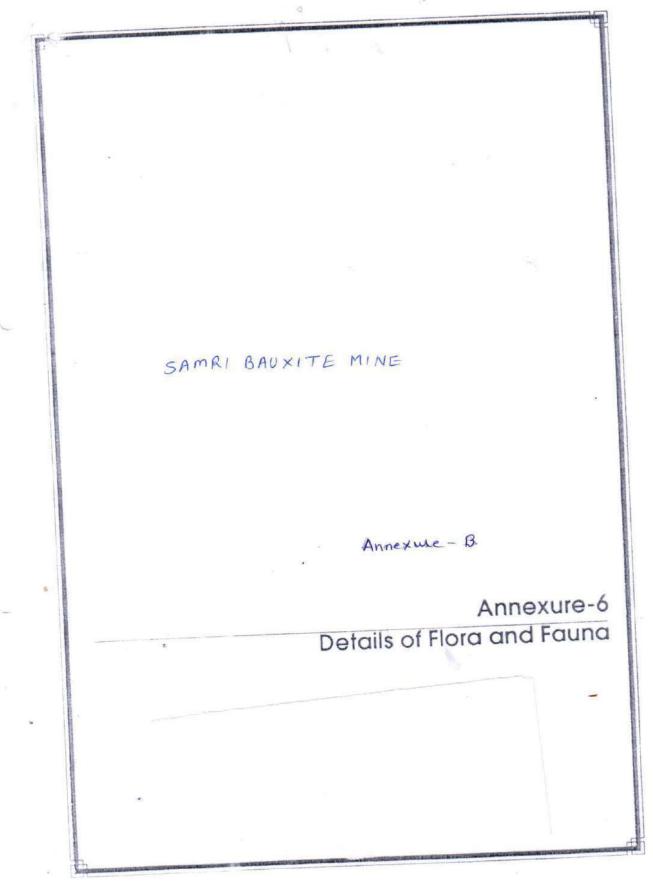
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2	कित्या जा राजन जनसंस्थान ए					
Э .	 अनुमोदित चन्यपाणे। राखण 					
J	प्रावधानित सांश 💀 १७०.०० व					
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	प्रतिलिपि :—			19		
0		गढ़ शासन, वन विभाग, ग	नहानदी मंत्रालय भवन	न, नया रायपुर की उ	गेर मय योजना	4
9	की प्रति सहित सूचन					
9		जी. एम. माइन्स हिन्ड				24
	पोस्ट-कुसमी, जिला	–सरगुजा, छत्तीसगढ़ की	ओर मय योजना की	प्रति सहित सूचनार्थ	प्रेषित।	
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संसर्वेश करते हुये 04 वर्षी के लिए गरेण लगा जा अच्छानित की गयी है। जिसका क्रियान्ययन वन विभाग के द्वारा किया जायेगा। प्रश्तान में प्रात्मी कि न के का विवरण निम्नानुराह हे –

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Sr.	Works to be done	and the second s	st for Lot		As. In lak	[a a]	Remarks
t‡ù-		1" Xear	year -	No.	4° Year	Total	an en recentra de la composition de la compositi
1	Plantation including soil and moisture Conservation works as per norms of forest department surrounding the lease hold	5.00	5:00	-7:00	5.00	20.00	
2	Silvicultural Operation on degraded forest Land and cut back in rooted waste	2.00	2.00	2.00	2.00	8.00	
3	Habitat Management Eradication of unwanted species in buffer Zone area, Fire Protection work including wages for fire watchman, Creation of Fire line etc. surrounding lease hold and in buffer area.	2.50	2.50	2.50	2.50	10.00	9 13 8
4	Monitoring - One Staff of forest department to monitor movement of wild life, encroachment, illicit cutting,poaching, fire etc. including Salary of 1 staff	3.00	3.00	3.00	3.00	12.00	
5	Construction of water holes, their maintenance and patrolling (One per Annum)	10.00	10.00	10.00	10.00	40.00	
6	Eco-development activities like poultry, piggery, bee keeping etc.	_ 5.00	5.00	5.00	5.00	20.00	
7	Vocational Training to weaker section, females, old persons and minors of the surrounding villages- in three centre in <u>the buffer Zone</u> of the mining lease @ 50000/- per centre.	3.00	3.00	3.00	3.00	12.00	
3	Veterinary camp for immunization- of Cattle with the help of block veterinary sataff.	-2.00	2.00	2.00	2.00	8.00	
9	Awareness Programme including Signages, distribution of Pamphlets- related to wild life conservation etc.	2.50	_ 2.50	2.50	2.50	10.00	
10	Provision for conservation of Biodiversity among flora and fauna of the area & Preparation of Biodiversity register	20.00	0.00	0.00	0.00	20.00	The amount is to be deposited in the account of Biodiversity Board as this work is to be done by Bio- diversity management committees
			4			-	(BMC's)

ANNEXURE-6 DETAILS OF FLORA & FAUNA

5 1 1

TABLE-1 DETAILS OF DOMINANT PLANT SPECIES IN MINE LEASE AREA (CORE ZONE)

Name of the plant Species	Local Name	Family
Butea monosperma	Palas	Fabaceae
Acacia Arabica	Babul	Mimosaceae
Leucena leucophloe	Sabubal	Mimosacaae
Mangifera indica	Aam	Anacardiaceae
Citrus lemon	Nimbu	Rutaceae
Emblica officinalis	Amla	Euphorbiaceae
Ficus hispida	Jungli anjir	Moraceae
Spondias cythera	Kathjamun	Myrtaceae
Terminalia catapa	Badam	Combretaceae
Apluda mutica	Grass	Poaceae
Chloris dolichosta	Grass	Poaceae
Dichanthium annulatum	Grass	Poaceae
Inpurta cylendrica	Grass	• Poaceae
Themeda-quadrivalvis	Grass	Poaceae
Arlstlda adscensionsis	Grass	Poaceae
tragrostis bileria	Grass	Poaceae
Fragrostis tenella	Grass	Poaceae
Setarla glauca	Grass	Cyperaceae
Thysanolaena maxima	Grass	Graminae
Parthenium hysterophorus	Congress grass	Compositae
Cassia (ota		Caesalpinaceae
Delonix regia	Kachnar	Caesalpinaceae
Dalbergia Sissoo	Sisoo	Caesalpinaceae,

TABLE-2 FLORA/VEGETATION IN STUDY AREA (BUFFER ZONE)

Sr. No.	Technical Name	Family	Life Form
I. Agricu	Itural Crops		
1	Hordium vulgare	Poaceae	Hemicryptophyte
2	Sorghum vulgare	Poaceae	Hemicryptophyte
• 3	Triticum vulgare	' Poaceae	Hemicryptophyte
4	Zea mays	Poaceae	Hemicryptophyte
5	Oryza sativa	Poaceae	Hemicryptophyte
6	Pennisetum typhoideum	Poaceae	Hemicryptophyte
II. Comm	nerclal Crops (including Veget	ables)	
1	Abelomoschus indicus	Malvaceae	Therophyte
8	Alllum cepa	Liliaceae	Geophyte
9	Allium sativum	Liliaceae	Geophyte
10	Annona squamosa	Annonaceae	Phanerophyte
11	Arachis hypogia	Fabaceae	Geophyte
12	Catharanthes pusillus	Compositae	Therophyte
13	Cleer arietinum	Fabaceae	Hemicryptophyte
1.4	Citrus lemon	Ruataceae	Therophyte
15	Colacasia esculenta	Areaceae	Geophyte
16	Coreandrum sativum	Umbelliferae	Hemicryptophyte
17	Daucus carota	Umbelliferae	Geophyte
1.8	Lycopersicum esculentus	Solanaceae	Therophyte
19	Mangifera indica	Anacardiaceae	Phanerophyte
20	Memordia charantia	Cucurbitaceae	Therophyte
21	Pisum sativum	Fabaceae	Therophyte
22	Psidium guava	Myrtaceae	Phanerophyte
23	Solanum tuberosum	Solanaceae	Geophyte
24	Litchi chinensis	Sapindaceae	Phanerophyte
III. Plant	ations		
- 25	Bauhinia cormbosa	Caesalpinaceae	Phanerophyte
26	Acacia nilotica	Mimosaceae	Phanerophyte
27	Albizia lebbeck	Mimosaceae	Phanerophyte
28	Albizia odorattissima	Mimosaceae	Phanerophyte
29	Albizia procera	Mimosaceae	Phanerophyte

1	Sr. 1 30	Azadirachta indica	Name	Enerth	
	31	Bauhinia variegate		Meliaceae	Life Form
	32	Bauhinia pusa		Caesalpinaceae	Phanerophyte
	33	Bauhinia purpuria Bambusa arundanaci		Caesalpinaceae	Phanerophyte
	34	Butea monosperma	e3e	Poaceae	Phanerophyte
	35	Butea frondosa		Caesalpinaceae	Phanerophyte
-	36	Eucalyptus sp		Caesalpinaceae	Phanerophyte
	37	Delonix regia		Myrtaceae	Phanerophyte
	38	Ducase Is	-	Caesalpinaceae	Phanerophyte
I	V. Na	ural Vegetation /Forest	Turn	Caesalpinaceae	Phanerophyte
-		La Diela Diela Officia	туре		Phanerophyte
1-	40	Abutilon indicum		Fabaceae	
-	41	Acacia Arabica		Malvaceae	Therophyte
1-	42	Acacia auriculiformie		Mimosaceae	Phanerophyte
-	43	Acacia catechu		Mimosaceae	Phanerophyte
1-	44	Acacia intinsia		Mimosaceae	Phanerophyte
1	46	Acacia fernacea		Mimosaceae	Phanerophyte Phaneophyte
-	47	Acacia leucophioe		Mimosaceae	Phanerophyte
-	48	Acalypha lanceolata		Mimosaceae	Phanerophyte
	49	Acanthospermum hispic	dum	Euphorbiaceae	Therophyte
	50	I ANIVIANINES asners		Compositae	Therophyte
	51	Adathoda vasica		Amaranthaceae Acanthaceae	Therophyte
	52	Adina cordifolia		Rubiaceae	Therophyte
	3	Aegle marmelos Aerva lanata		Rutaceae	Phanerophyte
	4	Ageratum com		Compositae	Phanerophyte
5		Ageratum conyzoides Ailanthes excela		Compositae	Phanerophyte
5	6	Alangium salivus		Simaroubaceae	Therophyte
57	7	Albizia odoratissima		Alangiceae	Phanerophyte
58		Albizia procera		Caesalpinaceae	Phanerophyte
59		Alstonia scholaris		Caesalpinaceae	Phanerophyte
60		Alternanthera sessilis		Apocyanaceae	Phanerophyte
61		Alysicarbus hamoeur		Amaranthaceae	Phanerophyte
62		Anogeissus latifolia		Fabaceae	Therephyte
63		Anogeissus serica		Combretaceae	Therophyte
64		Argemone mexicana		Combretaceae	Phanerophyte
65		Azadirachta indica		Papevaraceae	Phanerophyte
66 67		Barleria prionoites		Meliaceae	Phanerophyte
68		Bidens biternata		Acanthaceae	Phanerophyte
69	1	Blepharis asperima		Compositae	Therophyte Therophyte
70		Blepharis madaraspatens		canthaceae	Phanerophyte
71	1	numed lacera		canthaceae	Therophyte
72		loerheavia chinensis	N	ompositae	Therophyte
73	B	oerheavia diffusa	N	ycataginaceae yctaginaceae	Therophyte
74	R	ombax ceiba	Bo	ombacaceae	Therophyte
75	R	orreria hispida	RI	Ibiaceae	Phanerophyte
76	B	orreria stricta oswellia serrata	R	ibiaceae	Inerophyte
77	Br	assica com	Bu	rseraceae	Therophyte
8	Br	assica camprestris Idelia retusa	Cri	uciferae	Phanerophyte
9	Br	idelia superba	Eu	phorbiaceae	Therophyte
0	Ca	esalpina pulcherima	Eur	phorbiaceae	Phanerophyte
1	Ca	lotropis procera	Cae	esalpinaceae	Phanerophyte
2	Car	nthium diddynum	Asc	lipiadaceae	Phanerophyte
3	Car	oparis aphylla	Rut	laceae	Phanerophyte
1	Car	paris deciduas	Cap	paridaceae	Phanerophyte
5	Car	issa carandus	Cap	paridaceae	Therophyte
	Can	ssa spinarium	Apo	Cyanaceae	Phanerophyte
	Case	Carla oravenlenc	Apor	cyanaceae	Phanerophyte
	C355	absus	Sam	ydiaceae	Phanerophyte
	Cass	sia absus	Caes	alpinaceae	Phanerophyte
	Cass	ia auriculata	Caes	alpinaceae	Phanerophyte
	Cass	la occidentalie	Caes	alpinaceae	Therophyte
	Cass	a tora	Caesa	alpinaceae	Therophyte
	Cestr	um diurnum	Laesa	alpinaceae	Therophyte
	Cestr	um noctrunum	Rubia Rubia	Ceae	Phanerophyte Theophyte

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Sr. No.	Technical Name	Family	Life Form
95	Chloris varigata	Poaceae	Therophyte
96	Cissus quadrangularis	Vitaceae	Therophyte
97	Citrus limon	Rutaceae	Phanerophyte
98	Cleome gynandra	Capparidaceae	Therophyte
99	Combretum ovalifolium	Rubiaceae	Phanerophyte
100	Cordia myxa	Rubiaceae	Phanerophyte
101	Crotalaria medicagenia	Fabaceae	Therophyte
and the second division of the second divisio	Croton bonplandinum	Amaryllidaceae	Therophyte
102		Cuscutaceae	Epiphyte
103	Cuscuta reflexa	Solanaceae	Therophyte
104	Datura fastulosa		Therophyte
105	Datura metal	Solanaceae	Therophyte
106	Desmodium triflorum	Asclepiadaceae	Phanerophyte
107	Diospyros melanoxylon	Lythraceae	
108	Diospyros Montana	Lythraceae	Phanerophyte
109	Echinops echinatus	Compositae	Therophyte
110	Eclipta prostrate	Compositae	Hemicryptophyte
111	Emblica officinale	Euphorbiaceae	Phanerophyte
112	Emilia lajerium	Compositae	Hemicryptophyte
113	Erythrina indica	Papillionaceae	Phanerophyte
114	Euphorbia geniculata	Euphorbiaceae	Therophyte
115	Euphorbia hirta	Euphorbiaceae *	Therophyte
-116	Euphorbia hyperocifolia	Euphorbiaceae	Therophyte
117	Euphorbia neruti	Euphorbiaceae	Therophyte
117	Euphorbia nivula	Euphorbiaceae	Therophyte
118	Euphorbia nivula Euphorbia piluliflora	Euphorbiaceae	Hemicryptophyte
	Euphorbia tricauli	Euphorbiaceae	Hemicryptophyte
120	Euphorbia tricauli Evolvulus alsinoides	Convolvulaceae	Therophyte
121		Convolvulaceae	Therophyte
122	Evolvulus numalaris	Rutaceae	Phanerophyte
123	Feronia elephantum		Phanerophyte
124	Ficus benghalensis	Moraceae	
125	Ficus carica	Moraceae	Phanerophyte
126	Ficus glomerata	Moraceae	Phanerophyte:
127	Ficus hispida	Moraceae	Phanerophyte
128	Ficus racemosus	Moraceae	Phanerophyte
129	Ficus relisiosa	Moraceae	Phanerophyte
130	Ficvus gibbosa	Moraceae	Phanerophyte
131	Gardenia latifolia	Rubiaceae	Phanerophyte
1.32	Gardenia lucida	Rubiaceae	Phanerophyte
133	Garuga pinnata	Burseraceae	Phanerophyte
134	Glossocardia bosvellia	Compositae	Hemicryptophyte
135	Gmelina arborea	Rubiaceae	Phanerophyte
136	Gomphrena globosa	Amaranthaceae	Therophyte
136	Gossypium herbaceum	Malvaceae	Therophyte
	Gossyphin herbaceon Grewia abutifolia	Tiliaceae	Phanerophyte
138	Grewia abutiona Grewia-salivifolia	Tiliaceae	Phanerophyte
139			Phanerophyte
140	Grewia subinaqualis	Tiliaceae	Hemicryptophyte
141	Gynandropis gynandra	Capparidaceae	Phanerophyte
142	Helictris isora	Rubiaceae	
143	Heliotropium indicum	Rubiaceae	Hemicryptophyte
144	Helitropium ovalifolium	Rubiaceae	Hemicryptophyte
145	Hemidesmus indicus	Asclepiadaceae	Phanerophyte
146	Hibsicus caesus	Malvaceae	Hemicryptophyte
147	Holarrhena antidycenterica	Asclepiadaceae	Phanerophyte
148	Holostemma annularia	Aslepiadaceae	Phanerophyte
149	Hygrophylla auriculata	Acanthaceae	Hemicryptophyte
150	Hyptis suavalens	Labiatae	Therophyte
150	Ichnocarpus frutens	Poaceae	Hemicryptophyte
	Impatiens balasamania	Balsaminaceae	Therophyte
152 153		Caesalpinaceae	Therophyte
	Indigofera hirsute	Caesalpinaceae	Therophyte
154	Indigofera limnacea		Therophyte
155	Indigofera tinctoria	Caesalpinaceae	
156	Ipomea aquatica	Convolvulaceae	Hydrophyte
157	Ipomea coccinea	Convolvulaceae	Therophyte
158	Ipomea tuba	Convolvulaceae	Hemicryptophyte
159	İxora arborea	Rubiaceae	Phanerophyte
160	Ixora parviflora	Rubiaceae	Phanerophyte

A6-3

No.	Technical Name	Family	Life Form
51	Ixora singapuriens	Rubiaceae	Phanerophyte
52	Jasmimum arborens	Oleaceae	Phanerophyte
53	Jatropha gossypifolia	Euphorbiaceae	Therophyte
54	Jussiaea suffraticosa	Onagraceae	Hydrophyte
55	Justia diffusa	Acanthaceae	Therophyte
66	Justicia diffusa	Acanthaceae	Therophyte
57	Lactuca punctata	Compositae	Therophyte
58	Lannea coramandalica -	Anacardiaceae	Phanerophyte
59 .	Lannea grandis	Anacardiaceae	Phanerophyte
70	Lannea procumbens	Anacardiaceae	Therophyte
71	Lantana camara	Verbinacaee	Phanerophyte
72	Lawsonia inermis	Lythraceae	Phanerophyte
73	Lepidogathis cristata	Acanthaceae	Therophyte
4	Leptodenia_reticulate	Asclepiadaceae	Phanerophyte
75	Leucas aspera	Labiatae	Therophyte
76	Leucas longifolia	Labiatae	Therophyte
7	Leucas longifolia	Labiatae	Therophyte
78	Leucena leucophloe	Caesalpinaceae	Phanerophyte
79	Linderbergia indica	Scrophulariaceae	Therophyte
30	Lindernbergia maica	Scrophulariaceae	Therophyte
31	Lophophora tridinatus	Scrophulariaceae	Geophyte
31	Luffa acutarigularia	Cucurbitaceae	, Therophyte
		Solanaceae	Therophyte
33	Lycopersicum esculentus Madhuca latifelia	Sapotaceae	Phanerophyte
34		Euphorbiaceae	
35	Mallotus philippinus	Malvaceae	Phanerophyte
36	Malvastrum coramandalicum		Therophyte
37	Mangifera indica	Anacardiaceae	Phanerophyte
38	Marselia quadrifolia	Marseliaceae	Phanerophyte
9	Melia azadirachta	Meliaceae	Phanerophyte
90	Memordica diocea	Cucurbitaceae	Therophyte
91	Merremia emerginata	Convolvulaceae	Therophyte
2	Michaelia champaca	Annonaceae	Phanerophyte
EE	Millingtonia hartensis	Bignoniaceae	Phanerophyte
)4	Mimosa hamata	Mimosaceae	Therophyte
5	Mitragyna parviflora	Rubiaceae	Phanerophyte
6	Mollugo cerviana	Aizoaceae	Therophyte
7	Mollugo hirta	Aizoaceae	Therophyte
3	Moringa oleifera	Moringaceae	Phanerophyte
9	Morus alba	Moraceae	Phanerophyte
)	Mucuna prurita	Papillionaceae	Hemicryptophyte
1	Murraya exotica	Rutaceae	Phanerophyte
)2	Murraya koenigii	Rutaceae	Phanerophyte
3	Musa paradisica	Musaceae	Therophyte
	Nymphia sp	Magnoliaceae	Hydrophyte
-	Ocimum americanum	Labiatae	Therophyte
-	Ocimum basillum	Labiatae	Therophyte
	Ocimum basman	Labiatae	Therophyte
3	Ocimum sanctum	Labiatae	Therophyte
_	Oldenlandia umbellate	Convolvulaceae	Therophyte
9			Therophyte
0	Oldenlandiua corymbosa	Rubiaceae	
	Oogeinia oojensis	Papillionaceae	Phanerophyte
2 3	Opuntia dillinii	Opuntiaceae	Therophyte
	Opuntia elator	Cacataceae	Therophyteq
4 5	Oxalis corniculata	Oxalidaceae	Therophyte
	Panicum milliria	Poaceae	Hemicryptophyte
	Panicum notatum	Poaceae	Hemicryptophyte
7	Papaver somniferum	Papaveraceae	Hemicryptophyte
	Parkinsonia aculata	Mimosaceae	Phanerophyte
9	Parthenium hysterophorus	Compositae	Therophyte
0	Paspalum strobilanthus	Passifloraceae	Hemicryptophyte
1	Passiflora foetida	Passifloraceae	Phanerophyte
	Pavonia zeylanica	Malvaceae	Phanerophyte
	Peltophorum ferrusinum	Caesalpinaceae	Phanerophyte
3	Phoenix aculis	Palmae	Phanerophyte
4 5	Phyllanthes asperulatus	Euphorbiaceae	Phanerophyte
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A6-4

Sr. No.	Technical Name	Family	Life Form
227	Phyllanthes niruril	Euphorbiaceae	Therophyte
228	Phyllanthes reticulates	Euphorbiaceae	Therophyte
229	Physalis minima	Solanaceae	Therophyte
230	Pithocolobium dulce	Mimosaceae	Phanerophyte
231	Polyalthia longifolia	Annonaceae	Phanerophyte
232	Polygala ererptera	Polygalaceae	Therophyte
233	Pongamia pinnata	Fabaceae	Phanerophyte
234	Portulaca oleracea	Portulaccaceae	Therophyte
235	Psidium guava	Myrtaceae	Phanerophyte
236	Punica granulatum	Puniaceae	Therophyte
237	Randia dumatorum	Rubiaceae	Phanerophyte
238	Rosa indica	Rosaceae	Therophyte
239	Rosa machata	Rosaceae	Therophyte
240	Saccharum-munja	Poaceae	Hemicryptophyte
240	Saccharum officinarum	Poaceae	Therophyte
242	Salmalia malabarica	Salmaliaceae	
242			Phanerophyte
	Sapindus emerginatus	Sapindaceae	Phanerophyte
244	Schleichera trijuga	Combretaceae	Phanerophyte
245	Scherebera sweitenoides	Sapindaceae	Phanerophyte
246	Schleichera oleosa	Sapindaceae	Phanerophyte
247	Sesamum indicum	Pedaliaceae	Hemicryptophyte
248	Shorea robusta	Dipterocarpaceae	Phanerophyte
249	Sida orientalis	Malvaceae	Phanerophyte
250	Sida vernanifolia	Malvaceae *	Hemicryptophyte
251	Selanum nigrum	Solanaceae	Therophyte
252	Solanum xanthocarpum	Solanaceae	Therophyte
253	Sterculia villosa	Tiliaceae	Therophyte
254	Stereospermum chelinoides	Bignoniaceae	Phanerophyte
255	Sygyglum cumini	Myrtaceae	Phanerophyte
256	Tamarindus indica	Caesalpinaceae	Phanerophyte
257	Tecomella undulate	Bignoniaceae	Therophyte
258	Tectona grandis	Verbinaceae	Phanreophyte
259	Tephrosia purpuria	Fabaceae	Therophyte
260	Terminalia bellarica	Combretaceae	Phanerophyte
261	Terminalia chebula	Combretaceae	Phanerophyte
262	Terminalia tomentosa	Combretaceae	Phanerophyte
263	Thospora cordifolia	Rhamnaceae	Therophyte
264	Tragus biflorus	Poaceae	Hemicryptophyte
265	Tribulus terrestris	Zygophyllaceae	Therophyte
266	Tridax procumbens	Compositae	Therophyte
267	Triumferta pilosa	Tiliaceae	merophyte
the state of the second s			The second second
268	Vernonia cinera	Compositae	Therophyte
269	Vicoa indica	Compositae	Phanerophyte
270	Vitex Negundo	Verbinaceae	Phanerophyte
271	Vitex negungo	Verbinaceae	Therophyte
272	Vitis vermifera	Vitaceae	Therophyte
273	Vivevera zizanoides	Poaceae	Therophyte
274	Wrightia tomentosa	Apocyanaceae	Phanerophyte
275	Xanthium strumariumk	Compositae	Therophyte
276	Yucca gloriosa	Agavaceae	Therophyte -
277	Zizyphus jujube	Rhamnaceae	Phanerophyte
278	Zizyphus mauritiana	Rhamanaceae	Phanrophyte
Grassla			
279	Apluda mutica	Poaceae	Hemicryptophyte
280	Chloris dolichosta	Poaceae	Hemicryptophyte
281	Cyanodactylon sp	Poaceae	Geophyte
282	Dichanthium annulatum	Poaceae	Hemicryptophyte
283	Inpurta cylendrica	Poaceae	
284	Sachharum spontanseum		Hemicryptophyte
		Poaceae	Hemicryptophyte
285	Themeda quadrivalvis	Poaceae	Hemicryprophyte
286	Aristida adscensionsis	Poaceae	Hemicryptophyte
287	Cenchrus ciliaris	Poaceae	Therophyte
288	Cenchrus setifgera	Poaceae	Therophyte
289	Cymbopogon jwarancusa	Cyperaceae	Hemicrptophyte
290	Cyperus aristatus	Cyperaceae	Therophyte
291	Cyperus triceps	Cyperaceae	Therophyte

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A6-5

Sr. No.	Technical Name				
292	Dactylectinium annualatum	Family	Life Form		
293	Digetaria bicornis	Poaceae	Therophyte		
294	Digetaria Segetaria	Poaceae	Hemicouste		
295	Eragrostis biferia	Poaceae	Hemicryptophyte		
296	Eragrostis tenella	Poaceae	Hemicryptophyte		
297	Ischaomum	Poaceae	Therophyte		
298	Ischaemum rugosum	Poaceae	Therophyte		
299	Setaria glauca	Cyperaceae	Hemicryptophyte		
300	Eulaliopsis binata	Graminae	Hemicryptophyte		
500	Thysanolaena maxima	Graminae	Hemicryptophyte		
	Endangered plants	No endangered plant species observed during study period and also from records of Botanical Survey of India (Red data of Books of Indian Plants)			

TABLE-3 FAUNA AND THEIR CONSERVATION STATUS FROM MINE LEASE AREA (CORE ZONE) Technical

Lochnige N					
Technical Name	English Name/ Local Name	Wild Life Protection Act	7		
		(1972) Status			
Phlacrocorax niger	Little cormorant				
Nycticorax nycticorax	Night heron	Sch-IV			
Ardeola grayii grayii	Haddy bird	Sch-I∀			
Bubulcus ibis coromandus	i Cattle egret	Sch-IV			
Eudynamys scolopacea	Indian koel	Sch-IV			
Meops philippinus philippinus		Sch-IV			
Dinopium benghalense tehminae	Bluetailed bee-eater	Sch-IV ·	1		
	Malabar golden backed	Sch-IV			
Acridotheres tristis tristis	Woodpecker				
Nectarinia minima	Common myna	Sch-IV	in the second second		
Passer domesticus indicus	Small sunbird	Sch-IV			
Butterflies	Indian house sparrow	Sch-IV			
Hypolimnas bolina Lin.	and take 12	COULTV			
Euploea core Cramer	Great rogfly				
Veptis hylas Moore					
Eurema hecabe Lin.	Common sailor				
Parantica aglea Stoll.	Common grass yellow	-			
fammals	Glassy tiger	-			
		-			
unambulus palmarum	Squirrel				
us sucrofa	Wild pig	Sch-IV			
erpestes edwardii	Common mongoose	Sch-III	2		
ulpus benghalensis	Wild fox	Sch-IV			
ystrix indica	Porcupine	Sch-II			
	1 · secupine	Sch-IV			

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FAUNA AND THEIR CONSERVATION STATUS IN STUDY AREA (BUFFER ZONE)

Technical Name	English Name/Local Name	Wild Life Protection Act
Aves		(1972)
Phlacrocorax niger	Little cormorant	
Ardea purpurea manilensis	Eastern purple heron	Sch-IV
Nycticorax nycticorax	Night heron	Sch-IV
Ardeola grayii grayii	Paddy bird	Sch-IV
Dupetor flavicollis	Black bittern	Sch-IV
Ardea alba modesta	Large egret	Sch-IV
Bubulcus ibis coromandus	Cattle egret	Sch-IV
filvus migrans govinda	Common pariah kite	Sch-IV
laliastur indus indus	Brahminy kite	Sch-IV
anellus indicus indicus	Redwattled lapwing	Sch-IV
ringa hypoleucos	Common sandpiper	Sch-IV
elochelidon nilotica nilotica	Gullbilled tern	Sch-IV
udynamys scolopacea	Indian koel	Sch-IV
alcyon smyrnensis fusca	Indian white breasted Kingfischer	Sch-IV
eops philippinus philippinus	Bluetailed bee-eater	Sch-IV
	r energies	Sch-IV

Technical Name	English Name/Local Name	Wild Life Protection Act (1972)	
Coracias benghalensis indica	Southern Indian Roller	Sch-IV	1
Dinopium benghalense tehminae	Malabar golden backed Woodpecker	Sch-IV	1
Acridotheres tristis tristis	Common myna	Sch-IV	
Corvus splendens protegatus	Ceylon house crow	Sch-IV	
Nectarinia minima	Small sunbird	Sch-IV	1
Nectarenia, zeylonica sola	Indian purple rumped sunbird	Sch-IV	1
Arachnothera longirostris longirostris	Little spinder hunter	Sch-IV	
Passer domesticus indicus	Indian house sparrow	Sch-IV	
Copsychus saularis ceyonensis	Southern magpie-robin	Sch-IV	12:00.0
Orthotomus sutorius	Tailor bird guzurata	Sch-IV	
Pavocristatus	Peacock	Part-III of Sch-I	1
Amphibians			1
Rana tigriana	Common frog	Sch-IV	1
Buto metanosticus	Toad	Sch-IV	1
Reptiles			1
Calotes versicolor	Lizard	Sch-IV	1
Calates versicolor	Common garden lizard	Sch-IV	1
Chamaleon zeylanicus	Indian chamaeleon	Sch-II	
Lycodon spp.	Wolf snake	Sch-III	
Boiga spp.	Catisnake	Sch-III	
Bangarus spp.	Krajt	Sch-II	
Naja naja	Indian cobra	Sch-III	
Vipera spp.	Russels viper	Sch-III .	1
Phyton sp	Python sp	Sch-I	1
Butterfiles			
Pachliopta hector Lin.	Crimson rose	-	
Papilio demoleus Lin.	Lime butterfly	-	1
Graphium agamemnon Lin.	Tailed jay	-	
Junoria almana Lin.	Peacock pansy		
Hypolimnas bolina Lin.	Great edofly	-	1.4.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1
Euploea core Cramer	Common crow		
Neptis hylas Moore	Common sailor	-	
Eurema hecabe Lin.	Common grass yellow	-	1000
Catopsilia sp.	Emigrant	-	
Mammals			1
Rattus sp.	Rat	Sch-IV	
Lepus nigricollis	Hare	Sch-IV	
Canis auries	Jackal	Sch-III	
Presbytis entellus	Langur	Sch-II	
Presbytis phayrei	Monkey	Sch-I	
Funambulus spp.	Squirrel	Sch-IV	
Funambulus palmarum	Squirrel	Sch-IV Sch-IV	
Sus sucrofa	Wild pig	Sch-III	
Rattus norvegicus	Field mouse	Sch-V	
Rattus rattus	House rat	Sch-V	
Rhinolopus spp.	Bat	Sch-V -	
Hipposiderus spp.	Bat	Sch-V	
Herpestes edwardii	Common mongoose	Sch-IV	
Bandicota indica	Bandicoot	Sch-V	
Bandicota bengalensis	Bandicoot	Sch-V	
Vulpus benghalensis	Wild fox	Sch-III	
Melsurus ursinus	Bear	Sch-III Sch-III	
Hystrix indica	Porcupine		
Axis axis 🖌	Spotted deer	Sch-IV Sch III	
Canis Iupaspallipes	Indian wolf	Sch-III	
Mellivora capensis	Indian Ratel	Part-I of Sch-I	
Elephas maximas	Indian Ratel	Part-I of Sch-I	
Felis chaus	Jungle cat	Part-I of Sch-I	
Parodoxurus hermophroiditus	Indian Small civet	Part-II of sch-II	
Muntiacus muntiacus	Barking deer	Part-I of sch-I	
STUDIED IS DUDIED FIS	DOLKING OPPE	Sch-III	

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HINDALCO INDUSTRIES LIMITED

Samri Mines Division

Self Help Group (SHGs)					
No. of SHGs:	33				
No of Beneficiaries:	330				
No of group linked with bank: 17					
Average Saving / Group – Rs.	Rs. 12,000/-				
10,000/-Facility provided to groups:	Register, Passbook, Dari, Sewing Machine, Income Generation training and other exposure programme like linkages with bank and training with NRLM.				
Groups engaged in income 33 generation activities:					

Unit: Hindalco Industries Limited, Samri Mines Division

	SHGs Details								
				No	A/C Details				
SI. No	SHG Name	Village Name	District Of Name Members		Members Savings in Bank A/C	Bank Loan Received	Economic Activity Name		
1	Gulmohar Self Help group	Amtahi	Balarampur	10	5000.00	-	Agriculture		
2	Sitara Self Help Group	Amtahi	Balarampur	10	15500.00	250000.00	Stitching Centre		
3	Chand Self Help Group	Amtahi	Balarampur	10	14600.00	350000.00	Stitching Centre		
4	Muskan Self Help Group	Amtahi	Balarampur	10	11500.00	50000.00	Mid-day meal Program		
5	Chameli Self Group	Nawatoli (Amtahi)	Balarampur	10	8900.00	-	Agriculture		
6	Nirmala Self Help Group	Amtahi	Balarampur	10	9450.00	50000.00	Agriculture		
7	Parwati Self Help Group	Amtahi	Balarampur	10	2500.00	-	Agriculture		
8	Nigrani Self Group	Amtahi	Balarampur	10	7580.00	50000.00	Stitching Centre		
9	Chandni Self Help Group	Amtahi	Balarampur	10	19850.00	-	Stitching Centre		

	Swajaldhara						
10	Self Help Group	Amtahi	Balarampur	10	11712.00	-	Agriculture
11	Savitri Self Help Group	Amtahi	Balarampur	10	12580.00	-	Agriculture
12	Indira Gandhi Self Help Group	Rajendrapur	Balarampur	10	12000.00	-	Agriculture
13	Sonam Self Help Group	Rajendrapur	Balarampur	10	1752.00	-	Agriculture
14	Basanti Self Help Group	Rajendrapur (Pakritoli)	Balarampur	12	22586.00	-	Agriculture
15	Saraswati Self Help Group	Dumerkholi	Balarampur	10	12600.00	-	Agriculture
16	Chameli Self Help Group	Kutku	Balarampur	10	8000.00	-	Agriculture
17	Champa Self Help Group	Kutku	Balarampur	10	11400.00	-	Agriculture
18	Genda Self Help Group	Tutvihar, Kutku	Balarampur	10	12470.00	-	Agriculture
19	Chandra Mukhi Self Help Group	Samri (West)	Balarampur	10	5000.00	-	Agriculture
20	Tetri Devi Self Help Group	Kutku	Balarampur	10	7500.00	-	Agriculture
21	Khusbu Self Help Group	Rajendrapur (Pakritoli)	Balarampur	10	7500.00	-	Agriculture
22	Nuri Self Help Group	Saraidih	Balarampur	10	9850.00	-	Agriculture
23	Shabnam Self Help Group	Saraidih	Balarampur	10	11000.00	-	Agriculture
24	Suhana Self Help Group	Saraidih	Balarampur	10	6000.00	-	
25	Rupa Self Self-Help Group	Saraidih	Balarampur	10	12500.00	-	Agriculture
26	Sushila Self Help Group	Banjutoli	Balarampur	10	11650.00	-	Agriculture
27	Chameli Self Help Group	Bata	Balarampur	10	20000.00	-	Agriculture
28	Chameli Self Help Group	Bata (Banjutoli)	Balarampur	10	21000.00	-	Agriculture

29	Punam Self Help Group	Balapani	Balarampur	10	19500.00	-	Agriculture
30	Gulab Self Help Group	Kudag	Balarampur	10	13134.00	-	Agriculture
31	Shubham Self Help Group	Balapani	Balarampur	10	6500.00	-	Agriculture
32	Chameli Self Help Group	Kudag	Balarampur	10	12000.00	-	Agriculture
33	Resham Self Help Group	Kudag	Balarampur	10	8000.00	-	Agriculture

Annexure-D

HINDALCO INDUSTRIES LIMITED SAMRI MINES DIVISION

Year wise /lease wise Afforestation details

Veer	Samri lease				
Year	No. of Saplings	Area in Ha			
1998-2017	167211	68.154			
2017-18	11681	4.97			
2018-19	19730	7.90			
2019-20	34360	31.59			
2020-21	36160	16.918			
2021-22	47307	11.465			
2022-23	36511	9.898			
2023-24	31651	10.560			
2024-25	27344	10.27			
Total	411955	171.725			

HINDALCO INDUSTRIES LIMITED

Samri Mines Divison

Ground Water Level Data (April 2024 to September 2024)

Samri Mine Lease Piezometer Reading						
S No Month Depth (meter)						
1	Apr-24	27.4				
2	May-24	28.1				
3	Jun-24	27.8				
4	Jul-24	26.5				
5	Aug-24	25.9				
6	Sep-24	26.2				

Annexure-E



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Test Report

Test Report No.: ALPL/29062024/1-19		Dated 29.06.2024			Page 1 of 5
Issued To : M/s Hindalco Industries Limited Samari Bauxite Mines, P.O. Kusmi, Distt,:-Balrampur (C.G.) - 497 222.	Sample Inward No. Inward Date Reference	ALPL/21062024/8 21.06.2024 13562310264; 17/	11111111111111111111111111111111111111	Analysis Start Analysis End Sample Category	25.06.2024 29.06.2024 Water
Sample Name Water	Sample Particulars / I GW-3	Details	Purpose of analy Drinking	2011 () 2010 () 201	Received
Sample Collected B Anacon representative Mr. At	Sampling Date: Sampling Time:	17.06.2024 10:45 AM	Sampling GNC (
Tests required Coliform, Escherichia coli,	Alkalinity, Ammonia, Ar			anide, Chloride, Cali	

Chloramines, Free residual chlorine, Fluoride, Magnesium, Nitrate, Odour, pH. Phenolic compounds, Sulphate, Sulphide, Taste, Total dissolved solids, Turbidity, Total hardness, Mineral Oil

	Contraction of the second second second		TEST RESULTS			
S.N.	Test Parameter	Measurement Unit	Test Method	Requires IS 105 (Drinking Wat Including Ar	Test Result	
			9	Acceptable Limit	Permissible Limit#	
1	Biological Testing L Water		0.000 March 10 March 10			VI UNITARI - 2
1	Coliform	Per 100 ml	IS 15185 ; 2016	Absent.	Absent	Absent
2	Escherichia coli	Per 100 ml	IS 15185 : 2016	Absent	Absent	Absent
11	Chemical Testing 1. Water	1				
3	Total Alkalinity (as Calcium Carbonate)	mg/l	1S 3025 (Part 23) : 1986	200	600	87.5
4	Ammonia (as N)	mg/l	IS 3025 (Part 34) 1988	0.5	No relaxation	BDL (DL - 0.1)
5	Anionic Detergents (as MBAS)	mg/l	1S 13428 : (Annex K): 2005	0.2	1.0	BDL (DL = 0.01)
6	Colour	Hazen units	IS 3025 (Part 4) : 2021	5	15	BDL (DL 1)
7	Cyanide (as CN)	mg/l	1S 3025 (Part 27) : 2021	0.05	No relaxation	BDL (DL = 0.005)
8	Chloride (as Cl)	mg/I	1S 3025 (Purt 32) :1988	250	1000	15.89
9	Calcium (us Ca)	mg/l	IS 3025 (Part 40) : 1991	75	200	19.2
10	Chloramines (as Cl-)	mg/l	1S 3025 (Part 26) : 2021	4.0	No relaxation	BDL (DL + 0.1)
11	Free Residual Chlorine	ing/l	IS 3025 (Part 26) : 2021	0.2	1	BDL (DL - 0.1)
12	Fluoride (as F)	mg/l	15 3025 (Part 60) : 2008	1.0	1.5	BDI. (DL+0.1)
13	Magnesium (as Mg)	mg/l	1S 3025 (Part 46) : 1994	30	100	11.17
14	Nitrate (as NO ₃)	mg/l	APHA method 23rd edition: 2017	45	No relaxation	BDL (DL - 2)
15	Odour		1S 3025 (Part 5) ; 2018	Agreeable	Agreenble	Agrecable
16	pH		IS 3025 (Part 11) : 2022	6.5 10 8.5	No relaxation	8.39 at 25°C
17	Phenolic compounds (as C,H,OH)	mg/l	1S 3025 (Part 43) : 2022	0.001	0.002	BDL (DL - 0.001)
18	Sulphate (as SO ₈)	mg/1	IS 3025 (Part 24) : 2022	200	400	8,16
19	Taste	+	IS 3025 (Part 8) : 1984	Agreeable	Agreeable	Agreeable
20	Total dissolved solids	mg/l	1S 3025 (Part 16) : 2023	500	2000	197
21	Turbidity	NTU	IS 3025 : (Part 10): 2023	1	5	BDL (DL = 0,1)
22	Total hardness (as CaCO ₃)	mg/l	IS 3025 (Part 21) : 2009	200	600	94
23	Sulphide (as H ₂ S)	mg/l	1S 3025 (Part 29) : 2022	0.05	No relaxation	BDL (DL-0.03)
24	Mineral Oil	mg/l	ANtt/7.2/RES/06	1	No relaxation	BDL (DL - 0.001

Please refer last Page for Note and Remarks.

Verified By

Snehal Raut Technical Manager

Pradnya Pillewan Dy Technical Manager

Authorized Signatories

Pooja Kathape Technical Manager

Jam

Dr. (Mrs.) S. D. Garway Quality Manager



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towards ensuring that your next experience will be significantly better than the current one, we welcome your feedback on feedback@anacon.in.

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Test Report

Test R	teport No.: ALPL/29062024/1-19			Dated 29.06.2024		-		Page 2 of 5
Issued To : M/s Hindalco Industries Limited Samari Bauxite Mines, P.O. Kusmi, DisttBalrampur (C.G.) - 497 222.		Sample Inward No. Inward Date Reference		ALPL/21062024/MON-EW-1/6-3 21,06.2024 13562310264; 17.05.2024		An	alysis Start alysis End mple Catego	
Sample Name Sample Particul Water GW-				Details	Parpose of ana Drinking	lysis	5 Ltr	
	Sample Collected By Sampli			Sampling Date: Sampling Time:	10:45 AM GNC		ng Location C Camp	
l'esta r	equired Arsenic, Aluminium, Barlo Total Chromium, Zinc, Polychlorin	am, Bocon, Copp	er, Cadu	ium, Iron, Lead, Ma	ingaisese, Mercury	, Moly	bdenum, Nic	kel, Selenium,
saver,	Total Carolinani, Zilic, Totychiota	med safetting in	TES	T RESULTS				
5.N.	N. Test Parameter Measurement Unit Test Method Requirement as per Unit Test Method Requirement as per IS 10500 : 2012 (Drinking Water Specificati Including Amendment No				2 ifications) int No. 4	Test Result		
		24,404,51			Acceptable Limit		missible imit#	
ш	Chemical Testing 2. Residues In Water							
25	Arsenic (as Ax)	Fgm	18:302	5 (Part 37) : 2022	0.01	Not	relacation	BDL (DL - 0.01)
26	Aluminium (as Al)	mg/l	IS 3025 (Part 2) : 2019		0.03		0.2	BDL (DL-0.02)
27	Barium (as Ba)	mg/l	IS 3025 (Part 2) : 2019		0.7	Not	relaxation	BDL (DL-0.02)
28	Boron (as B)	mg/l	IS 30	25 (Part 2) : 2019	0.5		2.4	BDL (DL-0.02)
29	Copper (as Cu)	mg/l	15.30	25 (Part 2) : 2019	0.05		1.5	BDL (DL-0.02)
30	Cadmium (as Cd)	mg/l	IS 3025 (Part 2): 2019		0.003	Not	relaxation	BDL (DL - 0.003
31	Iron (as Fe)	mg/l	iS 3025 (Part 2): 2019		1.0		relaxation	0.75
32	Lend (as Pb)	mg/l	1S 3025 (Part 2) : 2019		0.01	No	relaxation	BDL (DL = 0.01
33	Manganese (as Mn)	mg/l	15:30	25 (Part 2) : 2019	0.1	in an	0.3	BDL (DL-0.02)
34	Mercury (as Hg)	mg/l	IS 300	15 (Part 48) : 1994	0.001		relaxation	BDI. (DI 0.001
35	Molybdenum (as Mo)	mg/l	1S 30	25 (Part 2) : 2019	0.07	No	relaxation	BDL (DL - 0.02
36	Nickel (as Ni)	mg/l		25 (Part 2) : 2019	0.02	in the second second	relaxation	BDL (DL - 0.01
37	Selenium (as Se)	mg/T		25 (Part 56) : 2003	0.01		relaxation	BDL (DL-0.01
38	Silver (as Ag)	mg/l	15 134	28 (Annex J): 2005	0.1	1.02	reluxation	BDL (DL-0.01
39	Total Chromium (as Cr)	mg/l	and the second se	25 (Part 2) : 2019	0.05	No	relaxation	BDL (DL = 0.02
40	Zinc (as Zn)	mg/l	15 30	25 (Part 2) : 2019	5		15	0,10
11	2. Residues In Water							
-41	Polychlorinated hiphenyls							
	2.2'.5-trichlorobiphenyl	P.g.q		2/RES/04: 2018				BDL (DL 0.03
	2,4,4'-trichlorohiphenyl	Pgg 1	and the second se	2/RES/04: 2018				BDL (DL - 0.03
	2,2',5,5'-tetrachlorobiphenyl	pig/1		7.2/RES/04: 2018	-		BDL (DL - 0.03	
	2.2'.4.5.5'-pentachlorobiphenyl	pig/I	ANtr/7.2/RES/04: 2018		0.5	No relaxation	BDL (DL - 0.03	
	2,2',3,4,4',5'-hexachlorobipheny1	µg/1		7.2/RES/04: 2018				BDL (DL-0.03
	2.2',4.4',5.5'-hexachlorobiphenyl	µg/1			2/RES/04: 2018 2/RES/04: 2018			BDL (DL - 0.03
	2,2',3,4,4',5,5'- heptachlorohiphenyl	µg/l	ANII/	7.2/RES/04: 2018				BDL (DL - 0.03

Please refer last Page for Note and Remarks.

Verified By

Pradnya Pitlewan Dy Technical Manager

Nidhi Dubey Dy Technical Manager

Authorized Signatory

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Dr. (Mrs.) S. D. Garway Quality Manager



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Test Report

Test Report No.: ALPL/29062024/1-19		Dated 29.06,2024			Page 3 of 5
Issued To : M/s Hindalco Industries Limited Samari Bauxite Mines, P.O. Kusmi, Distt.:-Balrampur (C.G.) - 497 222.	Sample Inward No. Inward Date Reference	ALPL/21062024/3 21.06.2024 13562310264: 17.	460467946434	Analysis Start Analysis End Sample Category	25,06,2024 29,06,2024 Water
Sample Name Water	Sample Name Sample Particulars		Purpose of analy Drinking		Received Ltr
Sample Collected B Anacon representative Mr. A	Sampling Date: Sampling Time:	17:06:2024 10:45 AM	Sampling GNC 0		
Tests required . Polynuclear aromatic hydr	the second s	nes			

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirer IS 105 (Drinking Wat Including An	Test Result				
				Acceptable Limit	Permissible Limit #				
11	2. Residues In Water								
42	Polynuclear aromatic hydrocarbons								
	Naphthalene	µg/l	ANtr/7.2/RES/03: 2018		No relaxation	BDL (DL - 0.03			
	Acenaphthylene	μμ/Ι	ANtr/7.2/RES/03: 2018	0.1		BDL (DL-0.03			
	Acenaphthene	μg/1	ANtr/7.2/RES/03: 2018			BDL (DL - 0.03			
	Fluorene	pag/1	ANtr/7.2/RES/03: 2018			BDL (DL - 0.03			
	Anthracene	µg/I	ANtr/7.2/RES/03: 2018			BDL (DL - 0.03			
	Phenanthrene	µg/1	ANtr/7.2/RES/03: 2018			BDL (DL-0.03			
	Fluoranthese	pig/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.03			
	Pyrenc	µg/1	ANtr/7.2/RES/03: 2018			BDL (DL - 0.03			
	Benzo(a)anthracene	µg/l	ANte/7.2/RES/03: 2018			BDL (DL - 0.03			
	Chrysene	P.g.q	ANte/7.2/RES/03: 2018			BDL (DL - 0.03			
	Benzo(a)pyrene	µg/l	ANu/7.2/RES/03: 2018			BDL (DL - 0.03			
	Benzo(b)fluoranthene	Pg4	ANtr/7.2/RES/03: 2018			BDL (DL - 0.03			
	Benzo(k)fluoranthene	µg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.03			
	Indeno(123.cd)pyrene	µg/i	ANtr/7.2/RES/03: 2018			BDL (DL - 0.03			
	Dibeszo(a,h)anthracene	μg/1	ANtr/7.2/RES/03: 2018			BDL (DL - 0.03			
	Benzo(ghi)perylene	jig/l	ANtr/7.2/RES/03: 2018	· · · · · ·		BDL (DL - 0.03			
43	Trihalomethanes								
i	Bromoform	mg/l		0.1	No relaxation	BDL (DL -0.05			
ii.	Dibromochloromethane	mg/l	ANu/7.2/RES/05: 2018	0.1	No relaxation	BDL (DL -0.05			
ili	Bromodichloromethane	mg/1	ANU / 2018	0.06	No relaxation	BDL (DL -0.05			
iv.	Chloroform	mg/l		0.2	No relaxation	BDL (DL -0.05			

Please refer last Page for Note and Remarks.

Verified By

Pradaya Pillewan

Dy Technical Manager

Authorized Signatory

Dr. (Mrs.) S. D. Garway Quality Manager



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Test Report

Test Report No.: ALPL/29062024/1-19	Dated 29.06.2024	Analysis Start	Page 4 of 5 25.06.2024		
Issued To : M/s Hindalco Industries Limited Samari Bauxite Mines, P.O. Kusmi, Distt.:-Balrampur (C.G.) - 497 222.	Sample Inward No. Inward Date Reference	ALPL/21062024/MON-EW-1/6-3 21.06.2024 13562310264; 17.05.2024		Analysis End Sample Category	29.06.2024 Water
Sample Name Water	Sample Particulars / GW-3	Details	Purpose of analy Drinking		Received Lar
Sample Collected By Anacon representative Mr. Atul Sapate		Sampling Date: Sampling Time:	17.06.2024 10:45 AM	Sampling I GNC C	
Tests required - Pesticide Residues Organo		T DESULTS			

s.N,	Test Parameter	Measurement Unit	Test Method	TS Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4			Test Result		
_				A	cceptable Limit	Permissible Limit #			
44	Pesticide Residues Organochlorine			ununun			Participant and a second		
1	Alpha-HCH	μg/1	ANtr/7.2/RES/01:		and the second se	No relaxation	BDL (DL = 0.01)		
	Beta HCH	µg/1	ANtr/7.2/RES/01:	2018		No relaxation	BDL (DL - 0.03)		
	Delta- HCH	µg/l	ANtr/7.2/RES/01;			No relaxation	BDI. (DL - 0.03)		
2	Gamma - HCH (Lindane)	μg/3	ANtr/7.2/RES/01:			No relaxation	BDL (DL - 0.03)		
3	Alachlor	1,0,1	ANtr/7.2/RES/01:	2018	20	No relaxation	BDL (DL - 0.03)		
4	Aldrin	µg/l	ANtr/7.2/RES/01:	2018	0.03	No relaxation	BDL (DL + 0.03)		
	Dieldrin	14g/3	ANtr/7.2/RES/01:	2018	0.63	No relaxation	BDL (DL - 0.03)		
5	Butachlor	µg/4	ANir/7.2/RES/01:	2018	125	No relaxation	BDL (DL - 0.03)		
	p.p'-DDE, o.p'-DDE, p.p'-DDD, o.p'-DDD, o.p'- DDT, p.p'- DDT	jag/1	ANto7.2/RES/01:	2018	1		BDL (DL+0.03)		
		µg/l	ANte/7.2/RES/01:	2018	8		BDL (DL + 0.03)		
6		µg/l	ANtr/7.2/RES/01:	2018			BDL (DL - 0.03)		
1000		ug/l	ANtr/7.2/RES/01:	2018	1	No relaxation	BDL (DL - 0.03)		
		µg/1	ANtr/7.2/RES/01:	2018			BDL (DL = 0.03)		
		µ2/8	ANtr/7.2/RES/01:	2011	1		BDL (DL = 0.03)		
7	Atrazine	Paul	ANu/7.2/RES/01:		a to be a second as a	No relaxation	BDL (DL - 0.03)		
8	2,4-Dichlorophenoxyacetic acid	Fugu	ANn/7.2/RES/02	the state of the s		No relaxation	BDL (DL - 0.03)		
- 13	Endosulphan								
	Alpha-Endosulphan Beta-Endosulphan	- mar	ANtr/7.2/RES/01	2015	8 0.4	No relaxation	BDL (DL = 0.03)		
	Endosulphan sulphate	Гgц	AND 12/ACS/01	4018 0.4	The residential	- BDI: (DI: + 0.03			

Please refer last Page for Note and Remarks.

Verified By

Pradaya Pillewan Dy Technical Manager

Authorized Signatory

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Dr. (Mrs.) S. D. Garway Quality Manager



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Test Report

Test Report No.: ALPL/29062024/1-19 Issued To : M/s Hindalco Industries Limited	Sample Inward No. Inward Date	Dated 29.06.2024 ALPL/21062024/9 21.06.2024	MON-EW-1/6-3	Analysis Start Analysis End	Page 5 of 5 25.06.2024 29.06.2024
Samari Bauxite Mines, P.O. Kusmi, Distt.:-Balrampur (C.G.) - 497 222.	Reference	13562310264; 17,		Sample Category	Water
Sample Name Water	Sample Particulars		Purpose of analys Drinking		Received Ltr
Sample Collected B Anacon representative Mr. A	Sampling Date: Sampling Time:	17.06.2024 10:45 AM	Sampling 1 GNC C		
Tests required - Pesticide Residues Organi					

TEST RESULTS

S.N.	Test Parameter Measureme Unit	Measurement Unit	Test Method	Requ IS (Drinking V Including	Test Result		
		600000		Acceptable Limit	Permissible Limit #		
45	Pesticide Residues Organopho	exphones.					
10	Isoproturon	pig/1	ANtr/7.2/RES/02: 2018	9	No relaxation	BDL (DL - 0.03)	
11	Monocrotophos	µg/l	ANit/7,2/RES/01: 2018	1	No relaxation	BDL (DL = 0.03)	
12	Parathion methyl	µg/1	ANtr/7.2/RES/01: 2018	0.3	No relaxation	BDL (DL = 0.03)	
	Paraoxon methyl	µg/l	ANtr/7.2/RES/01: 2018		+	BDL (DL + 0.03)	
13	Malathion	µg/1	ANtr/7.2/RES/01: 2018	190	No relaxation	BDL (DL - 0.03)	
	Malaexon	μg/l	ANu/7.2/RES/01: 2018		+	BDL (DL - 0.03)	
14	Ethion	μg/l	ANtr/7.2/RES/01: 2018	3	No relaxation	BDL (DL = 0.03)	
15	Chlorpyrifos	P.g.u	ANtr/7.2/RES/01: 2018	30	No relaxation	BDL (DL - 0.03)	
16	Phorate				Contraction of the		
	Phorate-sulfone	jug/t	ANtr/7.2/RES/01: 2018	2	No relaxation	BDL (DL + 0.03)	
	Phoente-sulfoxide		Comparate constants				

NOTE: • Picase see searchasts "Original Test Report" to confirm the sufficiency of this report. • Results shall be referred to tested sample(c) and applicable to tested parameters only • Test report shall not be reproduced except in full without prior written approval of Asacon Lahs. • Liability of Asacon Lahs is limited to invosed amount only. • Non-perishable and perishable sample(c) shall be disposed off after 30 days and 15 days seepectively from the date of issue of Test Report, onless specified otherwise. • #Permissible test in atomice of an alternate source for drinking write. • 'mg/T is equivalent to 'ppr'. • 'mg/T' is anyivalent to 'pito'. • 80L. Below detection limit. • DL- DL Indicates detection limit of instrument / method and shall be considered as 'absent'. • DL- DL Indicates detection limit of instrument / method and shall be considered as 'absent'.

REMARKS: As requested by the client, sample was tested for above parameters only. The submitted sample complies with requirement as per 15: 10500:2012, for tests conducted only.

Verified By

Pradnya Pillewan

Dy Technical Manager

Authorized Signatory

Dr. (Mrs.) S. D. Garway Quality Manager

-----END OF REPORT-----



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Test Report

Test Report No.: ALPL/29062024/1-20		Dated 29.06.2024		Page 1 of 5	
Issued To : M/s Hindalco Industries Limited Samari Bauxite Mines, P.O. Kusmi, Distt.:-Balrampur (C.G.) - 497 222.	Sample Inward No. Inward Date Reference	ALPL/21062024/ 21.06.2024 13562310264; 17/	05.2024	Analysis Start Analysis End Sample Category	25.06.2024 29.06.2024 Water
Sample Name Water	Sample Name Sample Particulars		Purpose of analys Drinking	Contraction of the second s	Received Lar
Sample Collected By Anacon representative Mr. Atul Sapate		Sampling Date: Sampling Time:	17.06.2024 11:40 AM	Sampling I Water AT	
Tests required Coliform, Excherichia ci		nionic surface active	e agents, Colour, Cya	nide, Chloride, Cale	iam,

Chloramines, Free residual chlorine, Fluoride, Mugnesium, Nitrate, Odour, pH, Phenolic compounds, Sulphate, Sulphide, Taste, Total dissolved solids, Turbidity, Total hardness, Mineral Oil

			TEST RESULTS			
5.N.	Test Parameter Measurement Test Method		Test Method	Require IS 105 (Drinking Wat Including Ar	Test Result	
			Acceptable Limit	Permissible Limit #		
1	Biological Testing 1. Water			ACTION 1	(A	
1	Coliform	Per 100 ml	IS 15185 : 2016	Absent	Absent	Absent
2	Escherichia coli	Per 100 ml	IS 15185 : 2016	Absent	Absent	Absent
11	Chemical Testing 1. Water					Q
3	Total Alkalinity (as Calcium Carbonate)	mg/t	IS 3025 (Part 23) : 1986	200	600	56.25
4	Ammonia (as N)	mg/l	1S 3025 (Part 34) : 1988	0.5	No relaxation	BDL (DL - 0.1)
5	Anionic Detergents (as MBAS)	mg/l	IS 13428 : (Annex K): 2005	0,2	1.0	BDL (DL = 0.01)
6	Colour	Hazen units	18 3025 (Part 4) : 2021	5	15	BDL (DL-1)
7	Cyanide (as CN)	mg/l	1S 3025 (Part 27) : 2021	0.05	No relaxation	BDL (DL = 0.005)
8	Chloride (as Cl)	mg/l	IS 3025 (Part 32) :1988.	250	1000	13.80
9	Calcium (as Ca)	mg/l	IS 3025 (Part 40) : 1991	75	200	12.8
10	Chloramines (as Cl ₂)	mg/l	1S 3025 (Part 26) : 2021	4.0	No relaxation	BDL (DL - 0.1)
11	Free Residual Chlorine	mg/l	18 3025 (Part 26) : 2021	0.2	1	BDL (DL = 0.1)
12	Fluoride (as F)	mg/l	IS 3025 (Part 60) : 2008	1.0	1.5	BDL (DL + 0.1)
13	Magnesium (as Mg)	mg/I	1S 3025 (Part 46) ± 1994	30	100	7,77
14	Nitrate (as NO ₁)	ing/l	APHA method 23rd edition: 2017	45	No relaxation	BDL (DL - 2)
15	Odour		1S 3025 (Part 5) : 2018	Agreeable	Agreeable	Agreeable
16	pH		18 3025 (Part 11) : 2022	6.5 to 8.5	No relaxation	8.48 nt 25°C
17	Phenolic compounds (as CaH ₃ OH)	mg/l	1S 3025 (Part 43) : 2022	0.001	0.002	BDL (DL - 0.001)
18	Sulphate (as SO4)	mg/l	1S 3025 (Part 24) : 2022	200	400	2.56
19	Tuste		IS 3025 (Part 8) : 1984	Agreeable	Agreeable	Agreeable
20	Total dissolved solids	mg/f	IS 3025 (Part 16) : 2023	500	2000	153
21	Turbidity	NTU	IS 3025 : (Part 10): 2023	1	5	BDL $(DL = 0.1)$
22	Total hardness (as CaCO ₃)	mg/l	IS 3025 (Part 21) : 2009	200	600	64
23	Sulphide (as H ₂ S)	mig/1	IS 3025 (Part 29) : 2022	0.05	No relaxation	BDL (DL - 0.03)
24	Mineral Oil	mg/l	ANtr/7.2/RES/06	1	No relaxation	BDL (DL - 0.001

Please refer last Page for Note and Remarks.

Verified By 0 Ano

Sochal Raut Technical Manager

Pradnya Pillewan Dy Technical Manager .

Pooja-Kithape Technical-Manager

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Dr. (Mrs.) S. D. Garway Quality Manager

Authorized Signatories



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work in making sure that you get a seamless experience at every stage of your interaction with us. In our constant endeavor

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Test Report

Test Report No.: ALPL/29062024/1-20				Dated 29.06.2024				Page 2 of 5
ssued To : Sample Inward No A/s Hindalco Industries Limited amari Bauxite Mines, P.O. Kusmi, Distt.:-Balrampur (C.G.) ~ 497 222.			ALPL/21062024/1 21.06.2024 13562310264; 17/	05.2024	An Sai	alysis Start alysis End uple Catego	A contract of the second se	
Concession in	Sample Name Sample Particulars Water GW-4			Details	Purpose of ana Drinking	lysis		tity Received 5 Ltr
	Sample Collected By Anacon representative Mr. Atul Sapate			Sampling Date: Sampling Time:	17.06.2024 11:40 AM	T		ng Location ATM Outlet
lests r	equired Arsenic, Aluminium, Bari Total Chromium, Zinc, Polychlorin	um, Boron, Copp	er, Cadn	ium, Iron, Lead, Ma	inganese, Mercury	, Moly	bdenum, Nie	kel, Selenium,
sirver.	That Chommin, 2000, 100 years a	men edhiendes	TES	T RESULTS				
S.N.	Acceptable Permissible		2 ifications) nt No. 4 missible	Test Result				
	200 1 10 10				Limit	L	intit#	
п	Chemical Testing 2. Residues In Water							
25	Arsenic (as As)	mg/l	1S 3025 (Part 37): 2022		0.01	No 7	elaxation	BDL (DL - 0.01)
26	Aluminium (as Al)	mg/l	1S 3025 (Part 2) : 2019		0.03		0.2	BDL (DL-0.02)
27	Barium (as Ba)	mg/l	18 3025 (Part 2) : 2019		0.7	Not	elaxation	BDL (DL-0.02)
28	Boron (as B)	mg/l	IS 3025 (Part 2) : 2019		0.5	1.000	2.4	BDL (DL-0:02)
29	Copper (as Cu)	mg/l	1S 3025 (Part 2) : 2019		0.05		1.5	BDL (DL-0.02)
30	Cadmium (as Cd)	mg/l	IS 30	25 (Part 2) : 2019	0.003	Not	elaxation	BDL (DL - 0.00)
31	Iron (as Fe)	mg/l	IS 30	25 (Part 2) : 2019	1.0	Not	relaxation	0.24
32	Lead (as Pb)	mg/I	15 30	25 (Part 2) : 2019	-0.01	Not	relaxation	BDL (DL - 0.01
33	Manganese (as Mn)	mg/l	15:30	25 (Part 2) ; 2019	0.1	Same	0.3	BDL (DL-0.02)
34	Mercury (as Hg)	mg/1	IS 302	15 (Part 48) : 1994	0.001	Not	relaxation	BDL (DL = 0.001
35	Molybdenum (as Mo)	mg/I	15 30	25 (Part 2) : 2019	0.07	and the second second	relaxation	BDL (DL - 0.02
36	Nickel (as Ni)	mg/l		25 (Part 2) : 2019	0.02	the second second second	relaxation	BDI. (DL - 0.01
37	Selenium (as Se)	mg/l	18.300	25 (Part 56) : 2003	0.01		relaxation	BDL (DL-0.01)
38	Silver (as Ag)	mg/l		28 (Annex J): 2005	0.1		relaxation	BDL (DL=0.01
30	Total Chromium (as Cr)	mg/l		25 (Part 2) : 2019	0.05	No	relaxation	BDL (DL = 0.02
40	Zinc (as Zn)	mg/I	15.30	25 (Part 2) : 2019	5	_	15	0.10
п	2. Residues In Water							
41	Polychlorinated biphenyls							
	2,2',5-trichlorobiphenyl	pg/l	and the subscription of	2/RES/04: 2018				BDL (DL - 0.03
	2,4,4'-trichlorobiphenyl	µg/l	and state to be dealers	1,2/RES/04: 2018				BDL (DL - 0.03
	2,2',5,5'-tetrachlorobiphenyl	µg/l		7.2/RES/04: 2018				BDL (DL - 0.03
	2,2',4,5,5'-pentachlorobiphenyl	идЛ		2/RES/04: 2018	0.5	No	relaxation	BDL (DL - 0.03
	2.2'.3,4,4',5'-hexachlorobiphenyl	µg/1	the second second second second	2/RES/04: 2018				BDL (DL - 0.03
	2,2',4,4',5,5-hexachlorobiphenyl	μg/l		1.2/RES/04: 2018	-			BDL (DL - 0.03
	2.2'.3.4,4'.5.5'- heptachlorobipbenyl	μg/l	ANIE	7.2/RES/04: 2018				BDI. (DL-0.03

Please refer last Page for Note and Remarks.

Verified By 1810

Pradnyn Pillewan Dy Technical Manager

Nidhi Dubey

Dy Technical Manager

Authorized Signatory

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Dr. (Mrs.) S. D. Garway Quality Manager



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Test Report

Test Report No.: ALPL/29062024/1-20 Issued To : M/s Hindalco Industries Limited Samari Bauxite Mines, P.O. Kusmi, Distt.:-Balrampur (C.G.) - 497 222.	Sample Inward No. Inward Date Reference	Dated 29.06.2024 ALPL/21062024/N 21.06.2024 13562310264; 17.0	05.2024	Analysis Start Analysis End Sample Category	Page 3 of 5 25.06.2024 29.06.2024 Water
Sample Name Water	Sample Particulars / GW-4	Details	Purpose of analys Drinking	Quantity Received 5 Ltr	
Sample Collected E Anacon representative Mr. A		Sampling Date: Sampling Time:	17.06.2024 11:40 AM	Sampling I Water AT	

TEST RESULTS

S.N.	Test Parameter Measurement Unit		Test Method	Requirer IS 105 (Drinking Wat Including Ar	Test Result	
			Acceptable Limit	Permissible Limit #		
11	2. Residues In Water					
42	Polynuclear aromatic hydrocarbons			100 m		
	Naphthalene	µg/1	ANtr/7.2/RES/03: 2018			BDL (DL - 0.03)
	Acenaphthylene	μg/Ι	ANte/7.2/RES/03: 2018			BDL (DL - 0.03)
	Acenaphthene	Fight	ANto7.2/RES/03: 2018			BDL (DL - 0.03
	Fluorene	µg/l	ANtr/7.2/RES/03: 2018	1		BDL (DL - 0.03
	Anthracene	pig/l	ANtr/7.2/RES/03: 2018]		BDL (DL - 0.03
	Phenanthrene	µg/l	ANtr/7.2/RES/03: 2018	1		BDL (DL - 0.03
	Fluoranthene	µg/l	ANtr/7.2/RES/03: 2018	0.1		BDL (DL - 0.03
	Pyrene	µg/l	ANtr/7.2/RES/03: 2018		No relaxation	BDL (DL 0.03
	Benzo(a)anthracene	µg/l	ANtt/7.2/RES/03: 2018	3.994	NO PERMITON	BDL (DL ~ 0.03
	Chrysene	µg/1	ANtr/7.2/RES/03: 2018]		BDL (DL - 0.03
	Benzotabyyrene	fgu	ANtr/7.2/RES/03: 2018	1 0		BDL (DL-0.03
	Benzo(b)fluoranthene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.03
	Benzo(k)fluoranthene	µg/l	ANte/7.2/RES/03: 2018			BDI. (DL-0.03
	Indeno(123.ed)pyrene	µg/l	ANte/7.2/RES/03: 2018			BDL (DL-0.03
	Dibenzo(a,b)anthracene	sig/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.03
	Benzo(ghi)perylene	ug/l	ANtr/7.2/RES/03: 2018			BDL (DL-0.03
43	Trihalomethanes					
i	Bromoform	mg/l		0.1	No relaxation	BDL (DL -0.05
ii.	Dibromochloromethane	nig/l	131-13 30072/05-2019	0.1	No relaxation	BDL (DL -0.05
illi	Bromodichloromethane	mg/T	ANtr/7.2/RES/05: 2018	0.06	No relaxation	BDL (DL -0.05
ix	Chloroform	ing/l	1	0.2	No relaxation	BDL (DL -0.05

Please refer last Page for Note and Remarks.

Verified By

Pradnya Pillewan Dy Technical Manager

Authorized Signatory

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Dr. (Mrs.) S. D. Garway Quality Manager



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Test Report

Test Report No.: ALPL/29062024/1-20		Dated 29.06.2024		Page 4 of 5		
Issued To : M/s Hindalco Industries Limited Samari Bauxite Mines, P.O. Kusmi, Distt:=Balrampur (C.G.) - 497 222.	Sample Inward No. Inward Date Reference	ALPL/21062024/N 21.06.2024 13562310264; 17/	383977 (SCI.2017)	Analysis Star Analysis End Sample Categ	29.06.2024	
Sample Name Water	Sample Name Sample Particulars /		Purpose of analy Drinking	sis Qu	antity Received 5 Ltr	
Sample Collected Anacon representative Mr.	Sampling Date: Sampling Time:	17.06.2024 11:40 AM		ing Location TATM Outlet		
Tests required - Pesticide Residues Organ						

TEST RESULTS

S.N.	Test Parameter Measurement Unit		nt Test Method (Drinking Water		r Specifications) endment No. 4	Test Result	
				Acc	eptable Limit	Permissible Limit #	
.44	Pesticide Residues Organochlorine						
1	Alpha-HCH	μg/l	ANtr/7.2/RES/01:		0.01	No relaxation	BDL (DL = 0.01)
	Beta HCH	µg/l	ANtr/7.2/RES/01:	2018	0.04	No relaxation	BDI (DI -0.03)
	Delta-HCH	µg/l	ANtr/7.2/RES/01:	2018	0.04	No relaxation	BDL (DL = 0.03)
2	Gamma - HCH (Lindane)	µg/3	ANtr/7.2/RES/01:	2018	2	No relaxation	BDL (DL = 0.03)
3	Alachior	pig/l	ANu/7.2/RES/01:	2018	20	No relaxation	BDL (DL < 0.03)
4	Aldrin	µg/l	ANto 7.2/RES/01:	2018	0.03	No relaxation	BDL (DL = 0.03)
	Dickdrin	µg/l	ANtr/7.2/RES/01:	2018	0.03	No relacation	BDL (DL = 0.03)
5	Butachlor	µg/l	ANtr/7.2/RES/01:	2018	125	No relaxation	BDL (DL + 0.03)
		P.gu	ANtr/7.2/RES/01:	2018			BDL (DL - 0.03)
		µg/l	ANtr/7.2/RES/01	2018		No relaxation	BDL (DL = 0.03)
6	p.p'-DDE, o.p'-DDE, p.p'-DDD,	µ2/1	ANtr/7.2/RES/01:	2018	1 .		BDL (DL = 0.03)
10200	o,p'-DDD, o,p'-DDT, p,p'-DDT	µg/l	ANtr/7.2/RES/01:	2018	1 '	No resaxamon	BDL (DL - 0.03)
	The second states of the secon	µg/l	ANtr/7.2/RES/01	2018	1		BDL (DL = 0.03)
		pg/l	ANto 7.2/RES/01	2018	1		BDL (DL - 0.03)
7	Atrazine	ug/l	ANtr/7.2/RES/01	2018	2	No relaxation	BDL (DL = 0.03)
8	2.4-Dichlorophenoxyacetic acid	µg/1	ANtr/7.2/RES/02		30	No relaxation	BDL (DL - 0.03)
9	Endosulphan						
10.5	Alpha-Endosulphan	-				and the second s	Mensore and
	Beta-Endosulphan	µg/l	ANtr/7.2/RES/01	2018	0.4	No relaxation	BDL (DL - 0.03
	Endosulphan sulphate	P.D.			1.00000		

Please refer last Page for Note and Remarks.

Verified By

Pradnya Pfilewan Dy Technical Manager

Authorized Signatory

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Dr. (Mrs.) S. D. Garway Quality Manager



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Test Report

Test Report No.: ALPL/29062024/1-20 Issued To : M/s Hindalco Industries Limited Samari Bauxite Mines, P.O. Kusmi,	Sample Inward No. Inward Date Reference	Duted 29.06.2024 ALPL/21062024/9 21.06.2024 13562310264; 17.)	SEAGATERY OF LEESE	Analysis Start Analysis End Sample Category	Page 5 of 5 25.06.2024 29.06.2024 Water
Distt.:-Balrampur (C.G.) - 497 222. Sample Name Water GW-4		Details	Purpose of analy Drinking	Sector and the sector of the s	ty Received 5 Ltr
Sample Collected E Anacon representative Mr. A		Sampling Date: Sampling Time:	17.06.2024 11:40 AM		t Location TM Outlet
Tests required - Pesticide Residues Organ					

TEST RESULTS

S.N.	Total Proposition of the	Measurement Unit	Test Method	Requi IS (Drinking V Including	Test Result	
		080035		Acceptable Limit	Permissible Limit #	
45	Pesticide Residues Organoph	osphorus				
10	Isopraturon	µg/l	ANtr/7.2/RES/02: 2018	9	No relaxation	BDL (DL - 0.03)
11	Monocrotophos	μg/1	ANtr/7.2/RES/01: 2018	1	No relaxation	BDL (DL = 0.03)
12	Parathion methyl	Figur 1	AN#/7.2/RES/01: 2018	0.3	No relaxation	BDL (DL - 0.03)
- 22	Paraoxon methyl	Leg I	ANtr/7.2/RES/01: 2018			BDL (DL - 0.03)
13	Malathion	µg/1	ANtr/7.2/RES/01: 2018	190	No relaxation	BDL (DL = 0.03)
1.2	Malaoson	µg/l	ANte/7.2/RES/01: 2018	+		BDL (DL - 0.03)
14	Ethion	pig/l	ANtr/7.2/RES/01: 2018	3	No relaxation	BDL (DL - 0.03)
15	Chlorpyrifos	µg/l	ANtr/7.2/RES/01: 2018	30	No relaxation	BDL (DL - 0.03)
16	Phorate		Livin and an and a second second			
20	Phorate-sulfone	μg/1	ANst/7.2/RES/01: 2018	2	No relaxation	BDL (DL = 0.03)
	Phorate-sulfoxide		August and a solution of the	1	Contraction of the	National States and St

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REMARKS: As requested by the client, sample was tested for above parameters only. The submitted sample complies with requirement as per IS: 10500:2012, for tests conducted only.

Verified By

Pradnya Pillewan

Dy Technical Manager

Authorized Signatory

Dr. (Mrs.) S. D. Garway Quality Manager

____END OF REPORT_____



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Test Report

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solids, Turbidity, Total hardness, Mineral Oil

Laboratories

Test Report No.: ALPL/30092024/1-22 Issued To : M/s Hindako Industries Limited Samari Bauxite Mines, P.O. Kusmi, DistL:-Balrampur (C.G.) - 497 222.	Sample Inward No. Inward Date Reference	ALPL/23092024/N EW-1/2-1 23/09/2024 13562310264; 17.0	05.2024	Analysis Start Analysis End Sample Category	23/09/2024 30/09/2024 Water
Sample Name Water	Sample Particulars / I GW-1	Details	Purpose of analys Drinking	is Quantity 51	
Sampling done by Anacon representative Mr. Dharma		Sampling Date: Sampling Time:	20/09/2024 2:35 am	Sampling L GNC C	amp

TEST RESULTS Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Measurement Test Result Test Method S.N. **Test Parameter** Including Amendment No. 4 Unit Acceptable Permissible Limit # Limit Material or Product tested: Drinking water **Discipline : Biological** Group : Water r Absent Absent Per 100 ml IS 15185 Absent Coliform 1 Absent Absent Absent 18 15185 2 Escherichia coli Per 100 ml Material or Product tested: Drinking water Discipline : Chemical Group : Water п Total Alkalinity (as Calcium 137.6 IS 3025 (Part 23) 200600 3 mgA Carbonate) 0.5 No relaxation BLO (LOO-0.1) IS 3025 (Part 34) 4 Ammonia (as N) mg/l BLQ (LOQ-0.01) IS 13428 : (Annex K) 0.21.0 Anionic Detergents (as MBAS) 4 mg/l 1S 3025 (Part 4) Clause 4 5 15 6 Colour Hazen units 1S 3025 (Part 27/Sec 1) Clause 5 0.05 No relaxation BLQ (LOQ-0.005) 7 Cyanide (as CN) mg/I 250 1000 26.43 15 3025 (Part 32) Clause 2 8 Chloride (as Cl) mg/l 75 200 51.92 1S 3025 (Part 40) Clause 5 Calcium (as Ca) 0 mg/l BLQ (LOQ-0.1) IS 3025 (Part 26) 4.0No relaxation Chloramines (as Cl₂) mg/l 10 BLQ (LOQ-0.1) IS 3025 (Part 26) Clinine 7 0.2 ï 11 Free Residual Chlorine mg/l 1S 3025 (Part 60) Clause 6 1.0 1.5 0.16 Fluoride (as F) 12 ing/l 12.58 15 3025 (Part 46) Clause 6 30 100 13 Magnesium (as Mg) mg/l APHA 23rd edition: Method 4500-BLQ (LOO-2) Nitrate (as NO₃) mg/I 45 No relaxation 14 NOT Agreeable Agreeable Agreeable IS 3025 (Part 5) 15 Odour . 7.91 at 25°C 6.5 to 8.5 No relaxation 1S 3025 (Part 11) 16 pH Phenolic compounds (as C4H3OH) 0.001 0.002BLQ (LOQ-0.001) IS 3025 (Part 43/Sec 1) Clause 6 17 mg/l 14.68 1S 3025 (Part 24/ Sec1) Clause 5 200400 Sulphate (as SO4) 18 mg/l IS 3025 (Part 8) Agreeable Agreeable Agreeable Taste 19 . 457 Total dissolved solids IS 3025 (Part 16) 500 2000 20 mg/l 5 Turbidity IS 3025 : (Part 10) 1 NTU 1 21 600 182 1S 3025 (Part 21) Clause 5 20022 Total hardness (as CaCO3) mg/l BLQ (LOQ-0.03) IS 3025 (Part 29) 0.05 No relaxation 23 Sulphide (as H₂S) mg/l BLQ (LOQ-0.001) mg/l ANtr/7.2/RES/06 1 No relaxation 24 Mineral Oil

Please refer last Page for Note and Remarks. Verified By

Pradin a Philewa Dy Technical Manager

Authorized Signatories Pooja Kathane Technical Manager

Chinmay Garway puty Quality Manager

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Snehal Ruit Technical Manager

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Test Report

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Laboratories

G	Dated 30/09/2024	hanna		Page 2 of 5
Sample Inward No. Inward Date Reference	EW-1/2-1 23/09/2024		Analysis Start Analysis End Sample Category	23/09/2024 30/09/2024 Water
Sample Particulars GW-1	/ Details	Purpose of analysis Drinking	Quantity 1 51	
	Sampling Date: Sampling Time:	26/09/2024 2:35 am	Sampling GNC (
rium, Boron, Copper, Cad (PAH), Polychlorinated b	iphenyls	inganese, Mercury, Sele	nium, Total Chrom	ium,
	Inward Date Reference Sample Particulars GW-1 y nasheel Bhiogade rium, Boron, Copper, Cad (PAH), Polychlorinated b	Sample Inward No. ALPL/23092024/W EW-1/2-1 Inward Date 23/09/2024 Reference 13562310264; 17.0 Sample Particulars / Details GW-1 y Sampling Date: Sampling Time:	Sample Inward No. ALPL/23092024/MON-294- EW-1/2-1 Inward Date 23/09/2024 Reference 13562310264; 17.05.2024 Sample Particulars / Details GW-1 Purpose of analysis Drinking y Sampling Date: 20/09/2024 nasheef Bhiogade Sampling Time: 2:35 am rium, Boron, Copper, Cadmium, Iron, Lead, Manganese, Mercury, Sele (PAH), Polychlorinated bipheny4s Selection	Sample Inward No. ALPL/23092024/MON-294- EW-1/2-1 Analysis Start Inward Date 23/09/2024 Analysis End Reference 13562310264; 17.05.2024 Sample Category Sample Particulars / Details Purpose of analysis GW-1 Quantity I Drinking y Sampling Date: 20/09/2024 Sampling 51. y Sampling Date: 20/09/2024 Sampling GNC Orium, Boron, Copper, Cadmium, Iron, Lead, Manganese, Mercury, Selenium, Total Chrom (PAH), Polychlorinated biphenyls

Test Result
ed: Drinking water
BLQ (LOQ-0.01)
BLQ (LOQ-0.02)
BLQ (LOQ-0.02)
BLQ (LOQ-0.02)
BLQ (LOQ-0.02)
BLQ (LOQ-0.002)
0.17
BLQ (LOQ-0.01)
BLQ (LOQ-0.02)
BLQ (LOQ-0.001)
BLQ (LOQ-0.01)
BLQ (LOQ-0.02)
8LQ (LOQ-0.02)
BLQ (LOQ-0.03)
ng water
BLQ (LOQ-0.03)
BLQ (LOQ-0.93)
BLQ (LOQ-0.03)
BLQ (LOQ-0.03)
BLQ (LOQ-0.03)
BLQ (LOQ-5.03)
BLQ (LOQ-0.03)

D Please refer last Page for Note and Remarks.

Verified By Pradava Pillewan Deputy Technical Manager

Authorized Signatory Chinmay Garway suty Quality Manager



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Test Report

Test Report No.: ALPL/30092024/1-22 Issued To : M/s Hindalco Industries Limited Samari Bauxite Mines, P.O. Kusmi, Distt.:-Balrampur (C.G.) - 497 222.	Sample Inward No. Inward Date Reference	Dated 30/09/2024 ALPL/23092024// EW-1/2-1 23/09/2024 13562310264; 17.	07.05510	Analysis Start Analysis End Sample Category	Page 3 of 5 23/09/2024 30/09/2024 Water
Sample Name Water	Sample Particulars / GW-1	Details	Purpose of analy Drinking		Received
Sampling done by Anacon representative Mr. Dharmasheel Bhiogade		Sampling Date: Sampling Time:	20/09/2024 2:35 am	Sampling 1 GNC C	
Tests required , Polynuclear aromatic hydr	rocarbons, Trihalometha	the second se	#107 mil	i sure y	and,

S.N.	S.N.	Test Parameter	Measurement Unit	Test Method	IS 105 (Drinking Wat	ment as per 600 : 2012 ter Specifications) mendment No. 4	Test Result				
				Acceptable Limit	Permissible Limit#						
11	Discipline : Chemical	Group : Residu	es contaminants in water	Material or P	roduct tested: Drinkin	g water					
42	Polynuclear aromatic hydrocarbons										
	Naphthalene	μg/1	ANtr/7.2/RES/04			BLQ (LOQ-0.03)					
	Acenaphthylene	µg/l	ANtr/7.2/RES/04		3	BLQ (LOQ-0.03					
	Acenaphthene	µg/l	ANtr/7.2/RES/04			BLQ (LOQ-0.03)					
- 11	Fluorene	µg/l	ANtr/7.2/RES/04	0.1			BLQ (LOQ-0.03				
14	Anthracene	µg/l	ANtr/7.2/RES/04			BLQ (LOQ-0.03					
	Phenanthrene	µg/l	ANto 7.2/RES/04		1 3	BLQ (LOQ-0.03					
	Fluoranthene	µg/l	ANto7.2/RES/04			BLQ (LOQ-0.03					
	Pyrene	µg/l	ANtr/7.2/RES/04		Marco and and a second	BLQ (LOQ-0.03					
	Benzo(a)anthracene	µg/l	ANtr/7.2/RES/04		No relaxation	BLQ (LOQ-0.03					
	Chrysene	µg/l	ANtr/7.2/RES/04			BLQ (LOQ-0.03					
	Benzo(a)pyrene	µg/l	ANtr/7.2/RES/04	1		BLQ (LOQ-0.03					
	Benzo(b)fluoranthene	HØ/I	ANtr/7.2/RES/04	1	6	BLQ (LOQ-0.03					
	Benzo(k)fluoranthene	µg/1	ANtr/7.2/RES/04	1 1	1	BLQ (LOQ-0.03					
	Indeno(123,cd)pyrene	1/gu	ANtr/7.2/RES/04	1	8	BLQ (LOQ-0.03					
	Dibenzo(a,h)anthracene	ligh l	ANtr/7.2/RES/04	1	1	BLQ (LOQ-0.63					
	Benzo(ghi)perylene	μμ/1	ANtr/7.2/RES/04	1		BLQ (LOQ-0.03					
43	Trihalomethanes				and the second	and the second sec					
î	Bromoform	mg/l		0.1	No relaxation	BLQ (LOQ-0.05					
ii.	Dibromochloromethane	mg/l	111 - T T T T T T T T	0.1	No relaxation	BLQ (LOQ-0.05					
İİİ	Bromodichloromethane	mg/l	ANu/7.2/RES/04	0.06	No relaxation	BLQ (1.0Q-0.05					
iv	Chloroform	mg/l	E E	0.2	No relaxation	BLQ (LOQ-0.05					

Please refer last Page for Note and Remarks.

Verified By

Pradnya Pillewan Deputy Technical Manager

Authorized Signatory

Chinmay Garway Deputy Quality Manager



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Test Report

Test Report No.: ALPL/30092024/1-22 Issued To : M/s Hindalco Industries Limited Samari Bauxite Mines, P.O. Kusmi, Distt.:-Balrampur (C.G.) - 497 222.	Sample Inward No. Inward Date Reference	Dated 30/09/2024 ALPL/23092024/N EW-1/2-1 23/09/2024 13562310264; 17/		Analysis Start Analysis End Sample Category	Page 4 of 5 23/09/2024 30/09/2024 Water
Sample Name Water	Sample Particulars / GW-1	Details	Purpose of analy Drinking	sis Quantity	Received
Sampling done by Anacon representative Mr. Dharm		Sampling Date: Sampling Time:	20/09/2024 2:35 am	Sampling I GNC C	
Tests required - Pesticide Residues Organ		TRESULTS			

s.n.	Test Parameter	Test Parameter Measureme Unit		t Test Method (Drinking V		IS 105 king Wat	ment as per 60 : 2012 ter Specifications) nendment No. 4	Test Result
-		2	· · · · · · · · · · · · · · · · · · ·	Acceptab	le Limit	Permissible Limit #	8	
ш	Discipline : Chemical	Group : Resid	ues contaminants i	n water	Material o	or Product tested: Driaking	water	
44	Pesticide Residues Organochlorine	8 18	100.000 (Company)		100 aut	10 - 10 - 10 - 10	Contractor Contractor	
1	Alpha-HCH	µg/l	ANtr/7.2/RES/01		0.01	No relaxation	HLQ (LOQ-0.01	
	Beta HCH	µg/I	ANtr/7.2/RES/01		0.04	No relaxation	BLQ (LOQ-0.03	
	Delta- HCH	µg/l	ANtr/7.2/RES/01		0.04	No relaxation	BLQ (LOQ-0.03)	
2	Gamma - HCH (Lindane)	µg/l	ANtr/7,2/RES/01	1000	2	No relaxation	BLQ (LOQ-0.03	
3	Alachior	µg/1	ANtr/7.2/RES/01	17	20	No relaxation	BLQ (LOQ-0.03	
4	Aldrin	µg/I	ANtr/7.2/RES/01		0.03	No relaxation	BLQ (LOQ-0.03	
	Dieldrin	µg/l	ANtr/7.2/RES/01		0.03	No relaxation	BLQ (LOQ-0.03	
5	Butachlor	µg/l	ANtr/7.2/RES/01	1	125	No relaxation	BLQ (LOQ-0.03	
		μg/1	ANtr/7.2/RES/01	1			BLQ (LOQ-0.03	
		ид/Г	ANtr/7.2/RES/01	1			BLQ (LOQ-0.03	
6	p,p'-DDE, o,p'-DDE, p,p'-DDD,	µg/l	ANtr/7.2/RES/01	1	1	100000000000000000000000000000000000000	BLQ (1.0Q-0.03	
	o,p'-DDD, o,p'- DDT, p,p'- DDT	µg/I	ANtr/7.2/RES/01	1		No relaxation	BLQ (LOQ-0.03	
		µg/1	ANtr/7.2/RES/0	1			BLQ (LOQ-0.03	
		µg/l	ANtr/7.2/RES/0	1			BLQ (LOQ-0.03	
7	Atrazine	µg/I	ANtr/7.2/RES/0		2	No relaxation	BLQ (LOQ-0.03	
8	2,4-Dichlorophenoxyacetic acid	µg/l	ANtr/7.2/RES/0		30	No relaxation	BLQ (LOQ-0.03	
9	Endosulphan			1			Contraction of the other	
-	Alpha-Endosulphan Beta-Endosulphan	μgi	ANtr/7.2/RES/0		0.4	No relaxation	BLQ (LOO-0.03	
	Endosulphan sulphate	Page 7	pgo ANUT 2KESO	·		THE PERSON	mod (moderate)	

Please refer last Page for Note and Remarks.

Verified By Pradm Pillewah Deputy Technical Manager

Authorized Signatory hinmay Garway Deputy Quality Manager



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Test Report

Test Report No.: ALPL/30092024/1-22 Issued To : M/s Hindalco Industries Limited Samari Bauxite Mines, P.O. Kusmi, DistL:-Balrampur (C.G.) - 497 222.	Dated 3 Sample Inward No. Inward Date Reference	0/09/2024 ALPL/23092024/ EW-1/2-1 23/09/2024 13562310264; 17/	05.2024	Page 5 o Analysis Start Analysis End Sample Category	7 5 23/09/2024 30/09/2024 Water
Sample Name Water	Sample Particulars / GW-1	Details	Purpose of analys Drinking	and the second second second second second second second second second second second second second second second	Received
Sampling done by Anacon representative Mr. Dhannasheel Bhiogade		Sampling Date: Sampling Time:	20/09/2024 2:35 am	Sampling Location GNC Camp	
Tests required - Pesticide Residues Orga	inophosphorus	Second Second Second			
	TES	T DESITING			

S.N.	Test Parameter Measurement Unit		Test Method	IS (Drinking V	irement as per 10500 : 2012 Vater Specifications) Amendment No. 4	Test Result
				Acceptable Limit	Permissible Limit #	
IV	Discipline : Chemical		Residues contaminants	in water Ma	sterial or Product tested: I	brinking water
45	Pesticide Residues Organophos	phorus	With the second second second second			
10	Isoproturon	μg/1	ANtr/7.2/RES/02	9	No relaxation	BLQ (LOQ-0.03)
11	Monocrotophos	µg/1	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03
12	Parathion methyl	μg/1	ANtr/7.2/RES/01	0.3	No relaxation	BLQ (LOQ-0.03
	Paraoxon methyi	μg/1	ANtr/7.2/RES/01			BLQ (LOQ-0.03
13	Malathion	µg/l	ANtr/7.2/RES/01	190	No relaxation	BLQ (LOQ-8.03
- 00	Malaoxon	με/1	ANtr/7.2/RES/01	-	-	BLQ (LOQ-0.03
14	Ethion	μg/1	ANtr/7.2/RES/01	3	No relaxation	BLQ (LOQ-0.03
15	Chlorpyrifos	μg/1	ANtr/7.2/RES/01	30	No relaxation	BLQ (LOQ-0.03
16	Phorate		ANtr/7.2/RES/01	1.000		
	Phorate-sulfone	μg/l	ANtr/7.2/RES/01	2	No relaxation	BLQ (LOQ-0.0)
	Phorate-sulfoxide				And the second second	

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REMARKS: As requested by the client, sample was tested for above parameters only. The submitted sample complies with requirement as per 15: 10500:2012, for tests conducted only.

Verified By

Pradnya Pillewan Deputy Technical Manager

END OF REPORT-

Authorized Signatory

Chinmay Gapway puty Quality Manager



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Test Report

Issued To : M/s Hindalco Industries Limited Samari Bauxite Mines, P.O. Kus Distt.:-Balrampur (C.G.) - 497 22	Meterones	 ALPL/23092024/1 EW-1/2-2 23/09/2024 13562310264; 17/2 		Analysis Start Analysis End	Page 1 of 5 23/09/2024 30/09/2024
Sample Name Water	Sample Particulars GW-2			Sample Category sis Quantity 51	
Sampling Anacon representative Mr.	Dharmasheel Bhiogade	Sampling Date: Sampling Time:	20/09/2024 4:10 pm	Sampling L Water ATM	ocation Outlet
Tests required Coliform, Excheric Chloramines, Free residual chlorine solids, Turbidity, Total hardness, N	Fluoride, Magnesium, Nitrate,	Anionic surface active Odour, pH, Phenolic	e agents, Colour, Cyr compounds, Sulphat	nide Chloride Calei	

		580m	TEST RESULTS							
S.N.	Test Parameter	Measurement Unit	Test Method	IS 105 (Drinking Wa Including A	ment as per 500 : 2012 ter Specifications) mendment No. 4	Test Result				
				Acceptable	Permissible Limit #					
1	Discipline : Biological Group : Water Material or Product tested: Drinking water									
1	Coliform	Per 100 ml	IS 15185	Absent	Absent	Absent				
2	Escherichia coli	Per 100 ml	IS 15185	Absent	Absent	Absent				
11	Discipline : Cher	mical Gru	up : Water Materi	al or Product test	ed: Drinking water	- Hursen				
3	Total Alkalinity (as Calcium Carbonate)	mg/l	IS 3025 (Part 23)	200	600	103.82				
4	Ammonia (as N)	mg/I	IS 3025 (Part 34)	0.5	No relaxation	BLQ (LOO-0.1)				
5	Anionic Detergents (as MBAS)	mg/l	IS 13428 : (Annex K)	0.2	1.0	BLO (LOO-6.01)				
6	Colour	Hazen units	15 3025 (Part 4) Clause 4	5	15	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
7	Cyanide (as CN)	mg/l	IS 3025 (Part 27/Sec 1) Clause 5	0.05	No relaxation	BLQ (LOO-0.005)				
8	Chloride (as Cl)	mg/l	15 3025 (Part 32) Chause 2	250	1000	18.24				
9	Calcium (as Ca)	mg/l	IS 3025 (Part 40) Chuise 5	75	200	28.59				
10	Chloramines (as Cl ₂)	ttig/l	1S 3025 (Part 26)	4.0	No relaxation	BLO (LOO-0.1)				
11	Free Residual Chlorine	mg/1	IS 3025 (Part 26) Clause 7	0.2		BLQ (LOQ-0.1)				
12	Fluoride (as F)	mg/I	15 3025 (Part 60) Chasse 6	1.0	1.5	0.13				
13	Magnesium (as Mg)	mg/l	15 3025 (Part 46) Clause 6	30	100	9.71				
14	Nitrate (as NO ₃)	mg/l	APHA 23 rd edition: Method 4500- NO3	45	No relaxation	BLQ (LOQ-2)				
15	Odour	+	1S 3025 (Part 5)	Agreeable	Agreeable	Agreeable				
16	pH	+	IS 3025 (Part 11)	6.5 to 8.5	No relaxation	6.84 at 25"C				
17	Phenolic compounds (as CaH3OH)	mg/l	15 3025 (Part 43/Sec 1) Chause 6	0.001	0.002	BLQ (LOQ-0.001)				
18	Sulphate (as SO ₄)	mg/l	IS 3025 (Part 24/ Sec1) Clause 5	200	400	12.57				
19	Taste	+	IS 3025 (Part 8)	Agreeable	Agreeable	Agreeable				
20	Total dissolved solids	mg/l	1S 3025 (Part 16)	\$00	2000	194				
21	Turbidity	NTU	IS 3025 : (Part 10)	I	5	BLQ (LOO-0.1)				
22	Total hardness (as CaCO3)	mg/l	15 3025 (Part 21) Clause 5	200	600	112				
23	Sulphide (as H ₂ S)	mg/l	IS 3025 (Part 29)	0.05	No relaxation	BLO (LOO-0.03)				
24	Mineral Oil	mg/l	ANtr/7.2/RES/06	1	No relaxation	BLQ (LOQ-0.001)				

Please refer last Page for Note and Remarks.

Verified By

Snehal Raut Technical Manager

Pradnya Pillewan Dy Technical Manager

Authorized Signatories

Pooja Kathane Technical Manager

Chinamay Orway eputy Quality Manager

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Test Report

Test Report No.: ALPL/30092024/1-23 Issued To : M/s Hindalco Industries Limited Samari Bauxite Mines, P.O. Kusmi, Distt.:-Balrampur (C.G.) - 497 222.	Sample Inward No. Inward Date Reference	Dated 30/09/2024 ALPL/23092024/N EW-1/2-2 23/09/2024 13562310264; 17.0	ION-294-	Analysis Start Analysis End Sample	Page 2 of 5 23/09/2024 30/09/2024 Water
Sample Name Water	Sample Particulars GW-2	/ Details	Purpose of analysis Drinking		Received
Sampling done by Anacon representative Mr. Dharma	a sea a sea a sea a sea a sea a sea a sea a sea a sea a sea a sea a sea a sea a sea a sea a sea a sea a sea a s	Sampling Date: Sampling Time:	20/09/2024 4:10 pm	Sampling Location Water ATM Outlet	Location
Tests required Arsenic, Aluminium, Barin Zinc, Polynuclear aromatic hydrocarbon (P	AH), Polychlorinated big	nium, Iron, Lead, Ma phenyls ST RESULTS	nganese, Mercury, Sele	nium, Total Chron	nium,
			Dequirement	1000	

S.N.	Test Parameter	ameter Measurement Unit Test Method Requirement as per IS 10500 : 2012 (Drinking Water Specificatio Including Amendment No.		00 : 2012 ter Specifications)	Test Result				
				Acceptable Limit	Permissible Limit #				
11	Discipline : Chemical Group : Residues and contaminants in water Material or Product teste								
25	Arsenic (as As)	mg/l	1S 3025 (Part 2)	0.01	No relaxation	BLQ (LOQ-0.01)			
26	Aluminium (as Al)	ngi	1S 3025 (Part 2)	0.03	0.2	BLQ (LOQ-0.02)			
27	Barium (as Ba)	mg/l	15 3025 (Part 2)	0.7	No relaxation	BLO (LOO-0.02)			
28	Boron (as B)	mg/l	IS 3025 (Part 2)	0.5	2.4	BLQ (LOQ-0.02)			
29	Copper (as Cu)	ng/l	15 3025 (Part 2)	0.05	1.5	BLQ (LOQ-0.02)			
30	Cadmium (as Cd)	mg/1	15 3025 (Part 2)	0.003	No relaxation	BLQ (LOQ-0.002)			
31	Iron (as Fe)	mg/l	IS 3025 (Part 2)	1.0	No relaxation	0.07			
32	Lead (as Pb)	mg/I	1S 3025 (Part 2)	0.01	No relaxation	BLQ (LOQ-0.01)			
33	Manganese (as Mn)	mg/l	15 3025 (Part 2)	0.1	0.3	BLQ (LOQ-0.02)			
34	Mercury (as Hg)	mg/l	Anter7.2/Res.Inorg/01	0.001	No relaxation	BLQ (LOO-0.001)			
35	Selenium (as Se)	mg/l	IS 3025 (Part 56)	0.01	No relaxation	BLQ (LOQ-0.01)			
36	Total Chromium (as Cr)	mg/l	15:3025 (Part 2)	0.05	No relaxation	BLQ (LOQ-0.02)			
37	Zinc (as Zn)	mg/l	(\$ 3025 (Part 2)	3	15	BLQ (LOO-0.02)			
38	Polynuclear aromatic hydrocarbon (PAH)	µgЛ	ANn/7.2/RES/03	0.1	No relaxation	BLQ (LOQ-0.03)			
11	Discipline : Chemical	Group : Resid	ues contaminants in wa	ter Material or	Product tested: Drinki	an mater			
41	Polychlorinated biphenyls	Relation -	and the second se		risolici icseu, prina	ing water			
	2.2.5-trichlorobiphenyl	ug/l	ANtr/7.2/RES/04			BLQ (LOQ-0.03)			
	2,4,4'-trichlorobiphenyl	μg/l	ANtt/7.2/RES/04	-		BLO (LOO-0.03)			
- 8	2,2',5,5'-tetrachlorobiphenyl	µg/l	ANtr/7.2/RES/04	-		BLO (LOQ-0.03)			
	2,2',4,5,5'-pentachlorobiphenyl	µg/l	ANtr/7.2/RES/04	1		BLQ (LOQ-0.03)			
	2,2',3,4,4',5'-hexachlorobiphenyl	1/212	ANtr/7.2/RES/04	0.5	No relaxation	BLO (LOO-0.03)			
	2,2',4,4',5,5'-hexachlorobiphenyl	µg/l	ANtr/7.2/RES/04	-		BLQ (LOQ-0.03) BLQ (LOQ-0.03)			
	2.2',3,4,4',5,5'- heptachlorobiphenyl	μg/1	ANtr/7.2/RES/04	1		BLQ (LOQ-0.03)			

Please refer last Page for Note and Remarks.

Vegified By Pradny Pillewan

Deputy Technical Manager

Authorized Signatory Chinmay Garway puty Quality Manager



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Test Report

Page 3 of 5			Dated 30/09/2024		'est Report No.: ALPL/30092024/1-23	
alysis End 30/09/2024	Analysis Start Analysis End Sample Category	10020-2420	ALPL/23092024/N EW-1/2-2 23/09/2024 13562310264; 17.	Sample Inward No. Inward Date Reference	Issued To : M/s Hindalco Industries Limited Samari Bauxite Mines, P.O. Kusmi, Distt.:-Balrampur (C.G.) - 497 222.	
Quantity Received	sis Quanti	Purpose of analy Drinking	Details	Sample Particulars	Sample Name Water	
Sampling Location Water ATM Outlet		20/09/2024 4:10 pm	Sampling Date: Sampling Time:		Sampling done I Anacon representative Mr. Dhan	
			Sampling Time:	nasheel Bhiogade Irocarbons, Tribalometha		

5.N.	Test Parameter	Measurement Unit	Test Method	IS 105 (Drinking Wa	ment as per 500 : 2012 ter Specifications) mendment No. 4	Test Result						
				Acceptable Limit	Permissible Limit #							
п	Discipline : Chemical	Group : Residu	Material or P	roduct tested: Drinkin	ig water							
42	Polynuclear aromatic hydrocarbons											
	Naphthalene	µg/l	ANtr/7.2/RES/04			BLQ (LOQ-0.03)						
	Acenaphthylene	µg/l	ANtr/7.2/RES/04			BLQ (LOQ-0.03)						
	Acenaphthene	μg/1	ANtr/7.2/RES/04	1		BLQ (LOQ-0.03)						
	Fluorene	µg/1	ANtr/7.2/RES/04	1		BLQ (LOQ-0.03)						
	Anthracese	µg/I	ANtr/7.2/RES/04	1		BLQ (LOQ-0.63)						
	Phenanthrene	μg/l	ANtr/7.2/RES/04	1		BLQ (LOQ-0.03)						
- 1	Fluoranthene	µg/1	ANtr/7.2/RES/04	1		BLQ (LOQ-0.03)						
	Pyrene	µg/l	ANtr/7.2/RES/04		Sec. 14. 14	BLQ (LOQ-0.03)						
- 3	Benzo(a)anthracene	μg/l	ANtt/7.2/RES/04	0.1	No relaxation	BLQ (LOQ-0.03)						
	Chrysene	µg/l	ANtt/7.2/RES/04			BLQ (LOQ-0.03)						
	Benzo(a)pyrene	μg/1	ANtr/7.2/RES/04	1		BLQ (LOQ-0.03)						
	Benzo(b)fluoranthene	µg/J	ANtr/7.2/RES/04	1		BLQ (LOQ-0.03)						
	Benzo(k)fluoranthene	µg/1	ANtr/7.2/RES/04	1		BLQ (LOQ-0.03)						
	Indeno(123,cd)pyrene	µg/l	ANtr/7.2/RES/04	1		BLQ (LOQ-0.03)						
	Dibenzo(a,h)anthracene	μg/I	ANtr/7.2/RES/04	1		BLQ (LOQ-0.03)						
	Benzo(ghi)perylene	μg/1	ANtr/7.2/RES/04			BLQ (LOQ-0.03)						
43	Trihalomethanes											
8	Bromoform	mg/l		0.1	No relaxation	BLQ (LOQ-0.05)						
й	Dibromochloromethane	mg/l	AND TREES OF	0.1	No relaxation	BLQ (LOQ-0.05)						
iii.	Bromodichloromethane	mg/l	ANtr/7.2/RES/04	0.06	No relaxation	BLQ (LOQ-0.05)						
iv	Chloroform	mg/l		0.2	No relaxation	BLQ (LOQ-0.05)						

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Verified By

Pradnya Pillewan Deputy Technical Manager

Chinmay Garway Deputy Quality Manager

Authorized Signatory



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Test Report

Test Report No.: ALPL/30092024/1-23 Issued To : M/s Hindalco Industries Limited Samari Bauxite Mines, P.O. Kusmi, Distt.:-Balrampur (C.G.) - 497 222.	Sample Inward No. Inward Date Reference	Dated 30/09/2024 ALPL/23092024/N EW-1/2-2 23/09/2024 13562310264; 17.	259.62.03	Analysis Start Analysis End Sample Category	Page 4 of 5 23/09/2024 30/09/2024 Water	
Sample Name Water	Sample Particulars / GW-2	Details	Purpose of analys Drinking	is Quantity	Quantity Received 5 Ltr	
Sampling done by Anacon representative Mr. Dharm		Sampling Date: Sampling Time:	20/09/2024 4:10 pm	Sampling 1 Water ATM		
Tests required - Pesticide Residues Organ		T RESULTS			10000000	

S.N.	Test Parameter	Measurement Unit	Test Method	In	IS 105 inking Wat icluding An	nent as per 00 : 2012 er Specifications) nendment No. 4	Test Result
					ble Limit	Permissible Limit #	
ш	Discipline : Chemical	Group : Resid	ues contaminants i	in water	Material c	ar Product tested: Drinking	water
44	Pesticide Residues Organochlorine					1	PR 20 17 2525 6 631
1	Alpha-HCH	µg/l	ANtr/7.2/RES/0		0.01	No relaxation	BLQ (LOQ-0.01)
	Beta HCH	µg/l	ANtr/7.2/RES/0	1	0.04	No relaxation	BLQ (LOQ-0.83)
	Delta-HCH	µg/I	ANtr/7.2/RES/0	1	0.04	No relaxation	BLQ (LOQ-0.03)
2	Gamma - HCH (Lindane)	µg/1	ANtr/7.2/RES/0	1	2	No relaxation	BLQ (LOQ-0.03)
3	Alachior	µg/l	ANtr/7.2/RES/0	1	20	No relaxation	BLQ (LOQ-0.03)
4	Aldrin	µg/l	ANtr/7.2/RES/0	1	0.03	No relaxation	BLQ (LOQ-0.03)
	Dieldrin	µg/1	ANtr/7.2/RES/0	1	0.03	No relaxation	8LQ (LOQ-0.03)
5	Butachior	µg/I	ANtr/7.2/RES/0	1	125	No relaxation	BLQ (LOQ-0.03)
		µg/1	ANtr/7.2/RES/0	1			BLQ (LOQ-0.03)
		µg/l	ANtr/7.2/RES/0	1			BLQ (LOQ-0.03
6	p.p'-DDE, o.p'-DDE, p.p'-DDD,	P.g.u	ANtr/7.2/RES/0	1		and comparison of	BLQ (LOQ-0.03
æ.	o,p'-DDD, o,p'-DDT, p,p'-DDT	µg/l	ANtr/7.2/RES/0	1	1	No relaxation	BLO (LOQ-0.03
	of seat of except and	µg/l	ANtr/7.2/RES/0				BLQ (LOQ-0.03
		µg/l	ANtr/7.2/RES/0				BLQ (LOQ-0.03
7	Atrazine	rgu	ANtr/7.2/RES/0		2	No relaxation	BLQ (LOQ-0.03
8	2,4-Dichlorophenoxyacetic acid	µg/l	ANtr/7.2/RES/0		30	No relaxation	BLQ (LOQ-0.03
0	Endosulphan	1.1.1					
- 63	Alpha-Endosulphan					1	
	Beta-Endosulphan	hand 1	ANtr/7.2/RES/0	a	0.4	No relaxation	BLO (LOO-0.03
	Endosulphan sulphate	pgr	µg/I ANtr/7.2/RES/0			THE PERMANENT	and (nodering)

Please refer last Page for Note and Remarks.

Pradnyn Pillewan Deputy Technical Manager

Authorized Signatory hinmuy 9 reay Deputy Quality Manager



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Test Report

Test Report No.: ALPL/30092024/1-23 Issued To : M/s Hindalco Industries Limited Samari Bauxite Mines, P.O. Kusmi,	Dated 3 Sample Inward No. Inward Date Reference	0/09/2024 ALPL/23092024/9 EW-1/2-2 23/09/2024 13562310264; 17.1	276.5.55.01	Page 5 o Analysis Start Analysis End	75 23/09/2024 30/09/2024
DistL:-Balrampur (C.G.) - 497 222.	Autorite		Sample Category	Water	
Sample Name Water	Sample Particulars/ GW-2	Details	Purpose of analys Drinking	20	Received Ltr
Sampling done I Anacon representative Mr. Dhan		Sampling Date: Sampling Time:	20/09/2024 4:10 pm	Sampling L Water ATM	
Tests required - Pesticide Residues Orga	nophosphorus	T DESILI TS			

S.N.	Test Parameter	Measurement Unit	Test Method	IS (Drinking V	irement as per 10500 : 2012 Vater Specifications) Amendment No. 4	Test Result			
		1. (1993)				Acceptable Limit	Permissible Limit #		
IV	Discipline : Chemical Group : Residues contaminants in water Material or Product tested:								
45	Pesticide Residues Organophos	phorus	The second second		the second second second				
10	Isoproturen	µg/l	ANtr/7.2/RES/02	9	No relaxation	BLQ (LOQ-0.03)			
11	Monocrotophos	µg/1	ANtr/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)			
12	Parathion methyl	μg/1	ANtr/7.2/RES/01	0.3	No relaxation	BLQ (LOQ-0.03)			
	Paraoxon methyl	µg/l	ANtr/7.2/RES/01	-		BLQ (LOQ-0.03)			
13	Malathion	µg/1	ANtp/7.2/RES/01	190	No relaxation	BLQ (LOQ-0.63)			
	Malauson	µg/l	ANtr/7.2/RES/01		*	BLQ (LOQ-0.03)			
14	Ethion	µg/l	ANte/7.2/RES/01	3	No relaxation	BLQ (LOQ-0.03)			
15	Chlorpyrifos	µg/l	ANtr/7.2/RES/01	30	No relaxation	BLQ (LOQ-0.03)			
16	Phorate		ANtr/7.2/RES/01						
32.1	Phornte-sulfone	µg/t	ANtr/7.2/RES/01	2	No relaxation	BLQ (LOQ-0.03)			
	Phorate-sulfoxide			1	101303070/0017	1.0000 82 0			

NOTE: • Please see watermark "Original Test Roport" to confirm the authenticity of this report. • Results shall be referred to tested sample(s) and applicable to tested parameters only. • Test report shall as be repredeted except in full without price written approved of Annon Labs. • Lisbility of Annon Labs. in Invited in invoiced amount only. • Non-perishable and perishable sample(s) shall be disposed off after 30 days and 15 days respectively from the date of muse of Test Report, unless specified observate. • #Permissible limit in absence of an alternate source for disking water. • mgT in equivalent to "ppn". • "pgT is equivalent to "pyb" • BLOP below limit of quantification. . LOQ- limit of quantification. • Result for ture us. it is not relevant. • ANIe7.2/RES-01, ANIe7.2/RES/05; Inhumase validated method. • NT indicates not Tested as sample folied to establish adely concerns. • Sampling Method-ANIe7.2/MON-01 • Environmental condition - Satisfactory, • Statement of conformity issued on the basis of decision rule as per quality procedure (OP7.APS).

REMARKS: As requested by the client, sample was tested for above parameters only. The submitted sample complies with requirement as per IS: 10500:2012, for tests conducted only.

Verified By

Pradnya Pillewan Deputy Technical Manager

END OF REPORT-

Authorized Signatory Chinmay Ganway Deputy Quality Manager



Annexure-F



भारत सरकार जल शक्ति मंत्रालय जल संसाधन, नदी विकास और गंगा संरक्षण विभाग केन्द्रीय भूमि जल प्राधिकरण Government of India Ministry of Jal Shakti Department of Water Resources, River Development & Ganga Rejuvenation Central Ground Water Authority

(भूजल निकासी हेतु अनापत्ति प्रमाण पत्र) NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION

Project Name:	Samri Bauxite Mine Of M/s Hindalco Industries Limited						
Project Address:	Village Samri Block Kusmi						
Village:	Samari	Block:	Kusmi				
District:	Balrampur	State:	Chhattisgarh				
Pin Code:							
Communication Address:	Hindalco Industries Limited, S Kusmi, , Balrampur, Chhattisg		Division, Baba Chowk,, At And Post -				
Address of CGWB Regional Office :	Central Ground Water Board North Central Chhattisgarh, 2nd Floor, Lk Corpor And Logistic Park, Dhamtari Road, Nh-30, Dumartarai, Raipur, Chhattisgarh - 492015						

										\sim					
1.	NOC No.:		CGW	A/NOC	/MIN/R	EN/2/2	023/75	572	2.	Date	of Issuer	ice 0	3/04/202	23	
3.	Application No.:		21-4/1	21-4/1435/CT/MIN/2018		4.	Categ (GWR	ory: E 2020)	S	afe					
5.	Project Sta	atus: Exist		Existing Ground Water		6.	NOC	Туре:	R	enewal					
7.	Valid from: 29/04/2023		8.	Valid	up to:	2	8/04/202	25							
9.	Ground Wa	ater Absti	raction	Permit	ted:		. 1	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~							
Fresh Water Saline Water					De	waterin	g		-	Total					
	m³/day	m³/ye	ear	m³/	day	mª	³/year	m	³/day	m³/year		m	m³/day i		/year
	5.40	1674.	00		~	X									
10.	Details of g	ground wa	ater ab	stractio	on /Dew	atering	g struct	ures							
			Tota	al Exist	ing No	.:7					То	tal Pro	posed N	lo.:0	
				DW	DCB	BW	TW	MP	MPu	DW	DCB	BW	TW	MP	MPu
Abstraction Structure* 1 0 1		5	0	0	0	0	0	0	0	0					
*DW	/- Dug Well; D0	CB-Dug-cur	m-Bore V	Vell; BW	-Bore We	ell; TW-T	ube Wel	l; MP-Mine	e Pit;MPu	I-Mine Pu	umps		-	-	-
11.	Ground Wa	ater Abst	raction	/Restor	ation C	harges	s paid ((Rs.):				16	74.00		

(Compliance Conditions given overleaf)

This is an auto generated document & need not to be signed.

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011 Phone: (011) 23383561 Fax: 23382051, 23386743 Website: cgwa-noc.gov.in

> पानी बचाये – जीवन बचाये SAVE WATER - SAVE LIFE

Validity of this NOC shall be subject to compliance of the following conditions:

Mandatory conditions:

1) Installation of tamper proof digital water flow meter with telemetry on all the abstraction structure(s) shall be mandatory for all users seeking No Objection Certificate and intimation regarding their installation shall be communicated to the CGWA within 30 days of grant of No Objection Certificate.

2) Proponents shall mandatorily get water flow meter calibrated from an authorized agency once in a year.

3) Construction of purpose-built observation wells (piezometers) for ground water level monitoring shall be mandatory as per Section 14 of Guidelines. Water level data shall be made available to CGWA through web portal. Detailed guidelines for construction of piezometers are given in Annexure-II of the guidelines.

4) Proponents shall monitor quality of ground water from the abstraction structure(s) once in a year. Water samples from bore wells/ tube wells / dug wells shall be collected during April/May every year and analysed in NABL accredited laboratories for basic parameters (cations and anions), heavy metals, pesticides/ organic compounds etc. Water quality data shall be made available to CGWA through the web portal.

5) In case of mining projects, additional key wells shall be established in consultation with the Regional Director, CGWB for ground water level monitoring four (4) times a year (January, May, August and November) in core as well as buffer zones of the mine.

6) In case of mining project the firm shall submit water quality report of mine discharge/ seepage from Govt. approved/ NABL accredited lab.

7) The firm shall report compliance of the NOC conditions online in the website (www.cqwa-noc.gov.in) within one year from the date of issue of this NOC.

8) Industries abstracting ground water in excess of 100 m 3 /d shall undertake annual water audit through certified auditors and submit audit reports within three months of completion of the same to CGWA. All such industries shall be required to reduce their ground water use by at least 20% over the next three years through appropriate means.

9) Application for renewal can be submitted online from 90 days before the expiry of NOC. Ground water withdrawal, if any, after expiry of NOC shall be illegal & liable for legal action as per provisions of Environment (Protection) Act, 1986.

10) This NOC is subject to prevailing Central/State Government rules/laws/norms or Court orders related to construction of tube well/ground water abstraction structure / recharge or conservation structure/discharge of effluents or any such matter as applicable.

General conditions:

11) No additional ground water abstraction and/or de-watering structures shall be constructed for this purpose without prior approval of the Central Ground Water Authority (CGWA).

12) The proponent shall seek prior permission from CGWA for any increase in quantum of groundwater abstraction (more than that permitted in NOC for specific period).

13) Proponents shall install roof top rain water harvesting in the premise as per the existing building bye laws in the premise.

14) The project proponent shall take all necessary measures to prevent contamination of ground water in the premises failing which the firm shall be responsible for any consequences arising thereupon.

15) In case of industries that are likely to contaminate the ground water, no recharge measures shall be taken up by the firm inside the plant premises. The runoff generated from the rooftop shall be stored and put to beneficial use by the firm.

16) Wherever feasible, requirement of water for greenbelt (horticulture) shall be met from recycled / treated waste water

17) Wherever the NOC is for abstraction of saline water and the existing wells (s) is /are yielding fresh water, the same shall be sealed and new tubewell(s) tapping saline water zone shall be constructed within 3 months of the issuance of NOC. The firm shall also ensure safe disposal of saline residue, if any.

18) Unexpected variations in inflow of ground water into the mine pit, if any, shall be reported to the concerned Regional Director, Central Ground Water Board.

19) In case of violation of any NOC conditions, the applicant shall be liable to pay the penalties as per Section 16 of Guidelines.

20) This NOC does not absolve the proponents of their obligation / requirement to obtain other statutory and administrative clearances from appropriate authorities.

21) The issue of this NOC does not imply that other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would consider the project on merits and take decisions independently of the NOC.

22) In case of change of ownership, new owner of the industry will have to apply for incorporation of necessary changes in the No Objection Certificate with documentary proof within 60 days of taking over possession of the premises.

23) This NOC is being issued without any prejudice to the directions of the Hon'ble NGT/court orders in cases related to ground water or any other related matters.

24) Proponents, who have installed/constructed artificial recharge structures in compliance of the NOC granted to them previously and have availed rebate of upto 50% (fifty percent) in the ground water abstraction charges/ground water restoration charges, shall continue to regularly maintain artificial recharge structures.

25) Industries which are likely to cause ground water pollution e.g. Tanning, Slaughter Houses, Dye, Chemical/ Petrochemical, Coal washeries, pharmaceutical, other hazardous units etc. (as per CPCE list) need to undertake necessary well head protection measures to ensure prevention of ground water pollution as per Annexure III of the guidelines.

26) In case of new infrastructure projects having ground water abstraction of more than 20 m3/day, the firm/entity shall ensure implementation of dual water supply system in the projects.

27) In case of infrastructure projects, paved/parking area must be covered with interlocking/perforated tiles or other suitable measures to ensure groundwater infiltration/harvesting.

28) In case of coal and other base metal mining projects, the project proponent shall use the advance dewatering technology (by construction of series of dewatering abstraction structures) to avoid contamination of surface water.

29) The NOC issued is conditional subject to the conditions mentioned in the Public notice dated 27.01.2021 failing which penalty/EC/cancellation of NOC shall be imposed as the case may be.
 30) This NOC is issued subject to the clearance of Expert Appraisal Committee (EAC) (if applicable).

(Non-compliance of the conditions mentioned above is likely to result in the cancellation of NOC and legal action against the proponent.)

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011 Phone: (011) 23383561 Fax: 23382051, 23386743 Website: cgwa-noc.gov.in

पानी बचाये – जीवन बचाये SAVE WATER - SAVE LIFE

CENTRAL GROUND WATER AUTHORITY

Department of Water Resources, River Development and Ganga Rejuvenation Ministry of Jal Shakti, Govt. of India

Receipt

(As per the guideline Gazette Notification S.O. 3281(E) regarding the New Guidelines dated 24.09.2020 of CGWA, MoJS, Govt. of India) https://cgwa-noc.gov.in

Application No,:	21-4/1435/CT/MIN/2018	-4/1435/CT/MIN/2018							
Name of Firm:	SAMRI BAUXITE MINE OF M/	S HINDALCO INDUSTRIE	S LIMITED						
AppType Category:	Base Metal Ores		· · · · · · · · · · · · · · · · · · ·						
Application Type:	Mining		~						
PAN/GSTIN No. of Firm	n/Individual:	1							

S N	Description	Amount (Rs.)
•	Application Processing Fee	1000.00
-	Ground Water Abstraction /Restoration charges	1674.00
-	Environmental Compensation Charges (ECRGW) (Date From to) Days-	
	Penalty for non-Compliance of NOC conditions Condition to be mentioned	
	Rs. Rupees Two Thousand Six Hundred Seventy Four Only	2674.00
	CEMPAL CROUMD WH	

Annexure-G



Anacon Laboratories

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Test Report

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Ambient Air Quality-April-2024

Report No.:-	ALPL/30042024/1-1	Report Date:-	30/04/2024
Issued to :-	M/s Hindalco Industries Limited	Address:-	Samari Bauxite Mines, P.O. Kusmi, DisttBalrampur (C.G.) - 497 222.
Type of Work:-	Ambient Air Quality (Core-Zone)	Sample Ref. No. :	ALPL/22842024/ENV-125/1-CZ-1 , W1/A11 & A12, W2/A11 & A12, W3/A11 & A12, W4/A11 & A12.
Sample Drawn By:	Mr. Kailash Chahande	Sample Recd. Date	8,15,22,29 April-2024
Date of Analysis:-	9,16,23,30 April-2024	Sampling time	24 hrs
Sampling Procedure	ANtd/7.2/Mon-01	the second second second second second second second second second second second second second second second s	

Sr. No.	LOCATION	Date of sampling	PMse µg/m ³	PM23 µg/m ³	5O1 µg/m ³	NO1 µg/m ³	CO mg/m ¹
	Method Reference		18 3182 (Part 23)	USEPA-40 (Part 50)	15:5182 (Part-2)	15:5182 (Part-6)	IS-5182 (Part-10)
		01/04/2024	72.9	32.8	14.7	21.6	BDL (DL ~ 0.5)
		04/04/2024	68.3	24.9	12.6	18,3	BDL (DL - 0.5)
	Samri-Gopatu/ Near	08/04/2024	71.1	31.6	13.4	23.7	BDL (DL - 0.5)
AAQ-1		11/04/2024	76.3	32.7	12.9	26,8	BDL (DL-0.5)
naga	Weigh bridge	15/04/2024	64.9	28.4	9.3	21.4	BDL (DL - 0.5)
		18/04/2024	57.3	18.3	8.7	16.9	BDL (DL-0.5)
		22/04/2024	68.2	24.9	12.8	24.7	BDL (DL - 0.5)
		25/04/2024	71.6	28,1	14.3	26.8	BDL (DL - 0.5)
	CPCB Standards	100 (24 hrs)	60 (24 hrs)	80 (24 hrs)	80 (24 hrs)	2 (Shrs)	

5r. No.	LOCATION	Date of sampling	Pb (µg./m ³)	Hg (μg/m ³)	As (ng/m ³)	Cr (µg /m ³)
Method Reference		IS:5182 (Part 22)	Lab SOP	Lab SOP	Lab SOP	
		01/04/2024	0.017	BDL (DL-0.0005)	BDI. (DL-2.0)	BDL(DL-0.03)
		04/04/2024	0.021	BDL (DL-0.0005)	BDL (DL-2.0)	BDL(DL-0.03)
		08/04/2024	0.018	BDL (DL-0.0005)	HDL (DL-2.0)	BDL(DL-0.03)
AAQ-1	Samri-Gopatu/ Near	11/04/2024	0.024	BDL (DL-0.0005)	BDL (DL-2.0)	BDL(DL-0.03)
Land a	Weigh bridge	15/04/2024	0.016	BDL (DL-0.0005)	BDL (DL-2.0)	BDL(DL-0.03)
		18/04/2024	0.017	BDL (DL-0.0005)	BDL (DL-2.0)	BDL(DL-0.03)
		22/04/2024	0.016	BDL (DL-0.0005)	BDL (DL-2.0)	BDL(DL-0.03)
		25/04/2024	0.014	BDL (DL-0.0005)	BDL (DL-2.0)	8DL(DL-0.03)
CPCB Standards		5	1.0 (24 hrs)	+++	6.0 (annual)	-

NOTES:

Please see watermark "Original Test Report" to confirm the authenticity of this report.

Results shall be referred to tasted sample(s) and applicable to tested parameters only.

Test report shall not be reporduced except in full without prior written approval of Asacon Laba® BDL- Beine detection limit

DL- Indicates detection limit of instrument/method and shall be considered as 'absent'.

Remark: - All Results are within Limit as per CPCB Standards.

Verified by Nidhi Dubey

Deputy Technical Manager

FOY Cam

Snehal Raut Technical Manager

Authorized Signatory

Dr. (Mrs.) S. D. Garway Quality Manager



Thank you for instilling your trust and faith in our services. We cherish our relationship with you, and we put in a lot of hard work in making sure that you get a seamless experience at every stage of your interaction with us. In our constant endeavor lowards ensuring that your next experience will be significantly better than the current one, we welcome your feedback on feedback@anacon.in.

-----End of Report-----



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Test Report

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Ambient Air Quality-April-2024

Report No.:-	ALPL/30042024/1-2	Report Date:-	30/04/2024
Issued to :-	M/s Hindalco Industries Limited	Address:-	Samari Bauxite Mines, P.O. Kusmi, DisttBalrampur (C.G.) - 497 222,
Type of Work:-	Ambient Air Quality (Core-Zone)	Sample Ref. No. :	ALPL/22042024/ENV-125/1-CZ-1 W1/A11 & A12, W2/A11 & A12, W3/A11 & A12, W4/A11 & A12.
Sample Drawn By:	Mr. Kailash Chahande	Sample Recd. Date	8,15,22,29 April-2024
Date of Analysis:-	9,16,23,30 April-2024	Sampling time	24 hrs
Sampling Procedure	ANid/7.2/Mon-01		

Sr. No.	LOCATION	Date of sampling	PMu µg/m ¹	PM:s µg/m ¹	SOr µg/m³	NO2 µg/m ³	CO mg/m ²
Method Reference		15 5182 (Part 23)	USEPA-40 (Part 50)	15:5182 (Part-2)	18:5182 (Part-6)	IS:5182 (Part-10)	
	1	01/04/2024	74.9	32.8	13.1	27.6	BDL (DL-0.5)
		04/04/2024	68.3	24.9	11.6	21.8	BDL (DL-0.5
		08/04/2024	64.2	19.3	9.7	16.4	BDL (DL-0.5
AAQ-2	Dhandiapat	11/04/2024	57.1	21.6	11.8	24.7	BDL (DL - 0.5
under	Lynandiapat	15/04/2024	67.3	23.9	12.1	26.8	BDL (DL-0.5
		18/04/2024	73.4	28.1	14.7	32.1	BDL (DL - 0.5
		22/04/2024	68.3	24.3	9.2	21.7	BDL (DL-0.5
		25/04/2024	64.1	19.8	11.6	24.3	BDL (DL - 0.5
CPCB Standards		100 (24 hrs)	60 (24 hrs)	80 (24 hm)	80 (24 hrs)	2 (Shrs)	

Sr. No.	LOCATION	Date of sampling	1% (µg/m ³)	Ηg (µg/m ³)	As (ng/m ³)	Cr (µg/m ³)
Method Reference		15:5182 (Part 22)	Lab SOP	Lab SOP	Lab SOP	
		01/04/2024	0.014	BDL (DL-0.0005)	BDL (DL-2.0)	BDL(DL-0.03)
		04/04/2024	0.016	BDL (DL-0.0005)	BDL (DL-2.0)	BDL(DL-0.03)
		08/04/2024	0.018	BDL (DL-0.0005)	BDL (DL-2.0)	BDL (DL-0.03)
AAQ-2	Dhandiapat	11/04/2024	0.021	BDL (DL-0.0005)	BDL (DL-2.0)	BDL (DL-0.03)
terest.v.	Dhandiapat	15/04/2024	0.018	BDL (DL-0.0005)	8DL (DL-2.0)	BDL (DL-0.03)
		18/04/2024	0.016	BDL (DL-0.0005)	BDL (DL-2.0)	BDL (DL-0.03)
		22/04/2024	0.014	BDL (DL-0.0005)	BDL (DL-2.0)	BDL (DL-0.03)
		25/04/2024	0.016	BDL (DL-0.0005)	8DL (DL-2.0)	BDL (DL-0.03)
CPCB Standards		1.0 (24 hes)	-2440	6.0 (annual)	inter 1	

NOTES:

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Remark: - All Results are within Limit as per CPCB Standards.

Nidhi Dubey Deputy Technical Manager

Verified by Snehal Raut

Technical Manager

Authorized Signatory

Dr. (Mrs.) S. D. Garway Quality Manager

----End of Report----

Thank you for instilling your trust and faith in our services. We cherish our relationship with you, and we put in a lot of hand work in making sure that you get a seamless experience at every stage of your interaction with us. In our constant endeavor towards ensuring that your next experience will be significantly better than the current one, we welcome your feedback on feedback@anacon.in.



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Test Report

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Ambient Air Quality-April-2024

Report No.:-	ALPL/30042024/1-3	Report Date:-	30/04/2024
Issued to :-	M/s Hindalco Industries Limited	Address:-	Samari Bauxite Mines, P.O. Kustni, DisttBalrampur (C.G.) - 497 222.
Type of Work:-	Ambient Air Quality (Core-Zone)	Sample Ref. No. :	ALPL/22042024/ENV-125/1-CZ-1 W1/A11 & A12, W2/A11 & A12, W3/A11 & A12, W4/A11 & A12.
Sample Drawn By:	Mr. Kailash Chahande	Sample Recd. Date	8,15,22,29 April-2024
Date of Analysis:-	9,16,23,30 April-2024	Sampling time	24 brs
Sampling Procedure	ANtd/7.2/Mon-01		

Sr. No.	LOCATION	Date of sampling	PM# jag/m ³	PM23 µg/m3	SO1 µg/m ³	NO2 µg/m ³	CO mg/m ³	
Method Reference		15 5182 (Part 23)	USEPA-40 (Part 50)	15:5182 (Part-2)	15:5182 (Part-6)	15:5182 (Parti-10)		
		01/04/2024	72.8	26.4	13.9	26.8	BDL (DL - 0.5)	
			04/04/2024	68.3	24.7	12.8	21.6	BDL (DL - 0.5)
		08/04/2024	71.9	27.3	9.2	38.2	BDL (DL-0.5)	
AAQ-3	Kutku Village/Nr.	11/04/2024	64.7	18.1	8.7	16.4	BDL (DL-0.5	
aaga	V.T. Center	15/04/2024	54.2	17,9	12.8	23.6	BDL (DL -0.5	
	Discontinues 3	18/04/2024	56.3	23.6	11.4	21.7	BDL (DL-0.5	
	1 3	22/04/2024	63.8	32.9	12.ň	24.1	BDL (DL - 0.5	
		25/04/2024	67.3	31.6	11.4	21.8	BDL (DL-0.5	
	CPCB Standards		100 (24 hes)	60 (24 hrs)	80 (24 hrs)	80 (24 hrs)	2 (Shrs)	

Sr. Nu.	LOCATION	Date of sampling	Р5 (µg/m ³)	Ηg (μg/m ³)	As (ng/m ³)	Cr (µg/m ³)
Method Reference		15:5182 (Part 22)	Lab SOP	Lab SOP	Lab SOP	
		01/04/2024	BDL (DL-0.01)	BDL (DL-0.0005)	BDL (DL-2.0)	BDL(DL-0.03)
		04/04/2024	BDL (DL-0.01)	BDL (DL-0.0005)	BDL (DL-2.0)	BDL(DL-0.03)
		08/04/2024	BDL (DL-0.01)	8DL (DL-0.0005)	BDL (DL-2.0)	BDL (DL-0.03)
AAQ-3	Kutku Village/Nr.	11/04/2024	BDL (DL-0.01)	BDL (DL-0.0005)	BDL (DL-2.0)	BDL (DL-0.03
anges.	V.T. Center	15/04/2024	BDL (DL-0.01)	8DL (DL-0.005)	BDL (DL-2.0)	BDL (DL-0.03)
	0.0000000000000000000000000000000000000	18/04/2024	BDL (DL-0.01)	BDL (DL-0.0005)	BDL (DL-2.0)	BDL (DL-0.03)
		22/04/2024	BDL (DL-0.01)	BDL (DL-0.0005)	BDL (DL-2.0)	BD4. (DL-0.03)
		25/04/2024	BDL (DL-0.01)	8DL (DL-0.0005)	BDL (DL-2.0)	BDL (DL-0.03
	CPCB Standards		1.0 (24 hrs)		6.0 (annual)	

NOTES:

Please see watermark "Original Test Report" to confirm the authenticity of this report.

Results shall be referred to tested sample(s) and applicable to tested parameters only.

Test report shall not be reproduced except in full without prior written approval of Anacon Labs

DUL- Below detection limit

DL- Indicates detection limit

int of instrument/method and shall be considered as 'absent'.

Remark: - All Results are within Limit as per CPCB Standards.

Verified by

Nidhi Dubey Deputy Technical Manager

For Amel

Snehal Raut Technical Manager

-----End of Report-----

Authorized Signatory

Dr. (Mrs.) S. D. Garway Quality Manager



Thank you for instilling your trust and faith in our services. We cherish our relationship with you, and we put in a lot of hand work in making sure that you get a seamless experience at every stage of your interaction with us. In our constant endeavor towards ensuring that your next experience will be significantly better than the current one, we welcome your feedback on feedback@anacon.in.



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Ambient Air Quality-April-2024

Report No .:-	ALPL/30042024/1-4	Report Date:-	30/04/2024
Issued to :-	M/s Hindalco Industries Limited	Address:-	Samari Bauxite Mines, P.O. Kusmi, Distt.:-Balrampur (C.G.) - 497 222,
Type of Work:-	Ambient Air Quality (Core-Zone)	Sample Ref. No. :	ALPL/22042024/ENV-125/1-CZ-1, W1/A11 & A12, W2/A11 & A12, W3/A11 & A12, W4/A11 & A12.
Sample Drawn By:	Mr. Kailash Chahande	Sample Recd. Date	8,15,22,29 April-2024
Date of Analysis:-	9,16,23,30 April-2024	Sampling time	24 hrs
Sampling Procedure	ANtd/7.2/Mon-01		

Sr. No.	LOCATION	Date of sampling	PM10 µg/m3	PMzs µg/m ³	SO: µg/m ³	NO: µg/m ⁵	CO mg/m ¹
	Method Reference		15 5182 (Part 23)	USEPA-40 (Part 50)	15:5182 (Part-2)	15:5182 (Part-6)	85:5182 (Part-10)
		01/04/2024	72.6	27.9	12.8	28.4	BDL (DL-0.5)
		04/04/2024	74.8	31.6	13.4	31.6	BDL (DL-0.5)
		08/04/2024	64.3	24.3	9.2	19.3	BDL (DL-0.5)
AAQ-4	Dumerkholi/Nr.	11/94/2024	73,1	32.8	14.6	29.1	BDL (DL-0.5
unga	Mining Area	15/04/2024	68.2	26.4	11.3	23.9	BDL (DL-0.5
		38/04/2024	67.2	21.9	11.6	23.8	BDL (DL-0.5
		22/04/2024	72.8	26.7	12.9	24.6	BDL (DL-0.5)
		25/04/2024	68.3	19.2	9.4	16.7	BDL (DL-0.5)
	CPCB Standards		100 (24 hrs)	60 (24 hrs)	80 (24 hrs)	80 (24 hrs)	2 (8hrs)

Sr. No.	LOCATION	Date of sampling	Pb (µg/m ³)	Ηg (μg/m ³)	As (ng/m ³)	Cr (µg/m ³)
Method Reference		15:5182 (Part 22)	Lab SOP	Lab SOP	Lab SOP	
12.2		01/04/2024	BDL (DL-0.01)	BDL (DL-0.0005)	BDL (DL-2.0)	BDL(DL-0.03)
		04/04/2024	BDL (DL-0.01)	BDL (DL-0.0005)	8DL (DL-2.0)	BD1(D1-0.03)
	200 1 000000000	06,04/2024	BDL (DL-0.01)	8DL (DL-0.0005)	BDL (DL-2.0)	BDL (DL-0.03
AAQ-4	Dumerkholi/Nr.	11/04/2024	8DL (DL-0.01)	BDL (DL-450005)	8DL (DL-2.0)	BDL-(DL-0.03
in the second second	Mining Area	15/04/2024	BDL (DL-0.01)	BDL (DL-0.0005)	BDL (DL-2.0)	BDL (DL-0.03
		18/04/2024	BDL (DL-0.01)	BDL (DL-0.0005)	8DL (DL-2.0)	BDL (DL-0.03
		22/04/2024	BDL (DL-0.01)	8DL (DL-0.0005)	BDL (DL-2.0)	BDL (DL-0.03
		25/04/2024	BDL (DL-0.01)	BDL (DL-0.0005)	BDL (DL-2.0)	BDL (DL-0.03
the first of	CPCB Standards	6	1.0 (24 hrs)		6.0 (annual)	

NOTES:

Plonse see watermark "Original Test Report" to confirm the authenticity of this report.

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Test report shall not be rependenced except in full without prior written approval of Anacon Labs

DUL-Below detection limit

DUL-Indicates detection limit of instrument/method and shall be considered at 'absent'.

Remark: - All Results are within Limit as per CPCB Standards.

Nidhi Dubey Deputy Technical Manager

Verified by Anch

Snehal Raut Technical Manager

Authorized Signatory

Dr. (Mrs.) S. D. Garway Quality Manager

-----End of Report-----

Thank you for instilling your trust and faith in our services. We cherish our relationship with you, and we put is a lot of hard work in making sure that you get a seamless experience at every stage of your interaction with us. In our constant endeavor towards ensuring that your next experience will be significantly better than the current one, we welcome your feedback on feedback@anacon.in.



Test Report

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Ambient Air Quality-April-2024

Report No.:-	ALPL/30042024/1-5	Report Date:-	30/04/2024
Issued to :-	M/s Hindalco Industries Limited	Address:-	Samari Bauxite Mines, P.O. Kusmi, Distt.:-Balrampur (C.G.) - 497 222.
Type of Work:-	Ambient Air Quality (Buffer Zone)	Sample Ref. No. :	ALPL/22042024/ENV-125/1-8Z-1 , W1/A11 & A12, W2/A11 & A12, W3/A11 & A12, W4/A11 & A12.
Sample Drawn By:	Mr. Kailash Chahande	Sample Recd. Date	8,15,22,29 April-2024
Date of Analysis:-	9,16,23,30 April-2024	Sampling time	24 hrs
Sampling Procedure	ANtd/7.2/Mon-01		

Sr. No.	LOCATION	Date of sampling	PMa µg/m ⁵	PM28 µg/m ³	SO ₂ µg/m ³	NO: µg/m ³	CO mg/m ³
Method Reference		15 5182 (Part 23)	USEPA-40 (Part 50)	(Pari-2)	15:5182 (Part-6)	IS:5182 (Part-10)	
		02/04/2024	68.2	31.6	12.7	21.9	BDL (DL ~ 0.5)
		05/04/2024	72.6	34.7	13.6	24.3	BDL (DL-0.5
		09/04/2024	64.9	28.1	11.4	19.2	BDL (DL-0.5
AAQ-5	Sairaidh Campus	12/04/2024	67.3	32.8	14.3	26,1	BDL (DL-0.5
and a	Surmain Campus	16/04/2024	59.2	27.6	12.4	21.8	BDL (DL - 0.5
		19/04/2024	62.7	26.9	11.3	38.2	BDL (DL-0.5
		23/04/2024	58.3	19.8	9.7	16.4	BDL (DL-0.5
		26/04/2024	61.7	21.6	11.4	17.9	BDL (DL-0.5
CPCB Standards		100 (24 hrs)	60 (24 hrs)	80 (24 hm)	80 (24 hrs)	2 (8hrs)	

Sr. No.	LOCATION	Date of sampling	Pb Hg (µg/m ³) (µg/m ³)		As (ng/m ³)	Cr (µg./m ³)
Method Reference		15:5182 (Part 22)	Lab SOP	Lab SOP	Lab SOP	
		02/04/2024	BDL (DL-0.91)	BDL (DL-0.0005)	BDL (DL-0.1)	BDL(DL-0.03)
		05/04/2024	BDL (DL-0.01)	BDL (DL-0.0005)	BDL (DL-0.1)	BDL/DL-0.03
		09/04/2024	BDL (DL-0.01)	BDL (DL-0.0005)	BDL (DL-0.1)	BDL(DL-0.03)
AAQ-5	Sairaidh Campus	12/04/2024	BDL (DL-0.01)	BDL (DL-0.0005)	BDL (DL-0.1)	BDL(DL-0.03)
CHARGE SE	containin cumpus	16/04/2024	BEH. (DL-0.01)	BDL (DL-0.0005)	BDL (DL-0.1)	8DL(DL-0.03
		19/04/2024	BDL (DL-0.01)	BDL (DL-0.0005)	BDL (DL-0.1)	BD1. (DL-0.5
		23/04/2024	BDL (DL-0.01)	BDL (DL-0.0005)	BDL (DL-0.1)	BDL (DL-0.5
		26/04/2024	BDL (DL-0.01)	BDL (DL-0.0005)	BER. (DL-0.1)	BDL(DL-6.03)
CPCB Standards		1.0 (24 hrs)		6.0 (annual)		

NOTES:

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BDL- Below detection limit

DL- Indicates detection limit

DL- Indicates detection limit

DL- Indicates detection

Intertainment/method and shall be considered as 'absent'.

Remark: - All Results are within Limit as per CPCB Standards.

Verified by

Nidhi Dubey Deputy Technical Manager

Him Snehal Raut

Technical Manager

---- End of Report----

Authorized Signatory

Jan

Dr. (Mrs.) S. D. Garway Quality Manager

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Test Report

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Ambient Air	Quality-A	April-2024
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Report No.:-	ALPL/30042024/1-6	Report Date:-	30/04/2024
Issued to :-	M/s Hindalco Industries Limited	Address:-	Samari Bauxite Mines, P.O. Kusmi, Distt.:-Balrampur (C.G.) - 497 222.
Type of Work>	Ambient Air Quality (Buffer Zone)	Sample Ref. No. :	ALPL/22042024/ENV-125/1- BZ -1 , W1/A11 & A12, W2/A11 & A12, W3/A11 & A12, W4/A11 & A12,
Sample Drawn By:	Mr. Kailash Chahande	Sample Recd. Date	8,15,22,29 April-2024
Date of Analysis-	9,16,23,30 April-2024	Sampling time	24 hrs
Sampling Procedure	ANtd/7.2/Mon-01		

Sr. No.	LOCATION	Date of sampling	PMas jag/m ³	PM2s µg/m ³	SO: µg/m ³	NO1 µg/m ³	CO mg/m ³
Method Reference		15 5182 (Pan 23)	USEPA-40 (Fart 50)	15:5182 (Part-2)	15:5182 (Part-6)	15:5182 (Part-10)	
	03/04/2024	68.2	26.1	12.9	23.7	BDL (DL - 0.5)	
	Tatijharia	06/04/2024	71.6	31.6	13.4	24.9	BDL (DL - 0.5)
		10/04/2024	64.8	24.3	9.3	18.6	BOL (DL 0.5)
AAQ-6	Village/Nr.Weigh	13/04/2024	67.2	26.8	31.9	21.8	BDL (DL-0.5)
10.05.0	Bridge	17/04/2024	71.3	31.9	12.8	26.1	BOL (DL - 0.5)
	bridge	20/04/2024	64.7	28.1	9.3	18.7	BDL (DL-0.5)
		24/04/2024	57.3	24.9	8.7	17.3	BDL (DL - 0.5)
		27/04/2024	62.8	23,6	11.5	21.9	BOL (DL - 0.5)
CPCB Standards		100 (24 hes)	60 (24 hrs)	80 (24 hrs)	80 (24 hrs)	2 (8hrs)	

Sr. No.	LOCATION	Date of sampling	Рь Нg (µg/m ³) (µg/m ³)		As (ng/m ³)	Cr (µg /m ³)
Method Reference		15:5182 (Part 22)	Lab SOP	Lab SOP	Lab SOP	
		03/04/2924	0,028	BDL (DL-0.0005)	BDL (DL-2.0)	BDL(DL-0.03)
		06/04/2024	0.031	BDL (DL-0.0005)	BDL (DL-2.0)	BDL(DL-0.03)
	Tatijbaria	10/04/2024	0.034	BDL (DL-0.0005)	BDL (DL-2.0)	BDL (DL-0.03)
AAQ-6	Village/Nr.Weigh	13/04/2024	0.026	BDL (DL-0.0005)	BDL (DL-2.0)	BDL (DL-0.03)
and a	Bridge	17/04/2024	0.021	BDL (DL-0.0005)	BD4. (DL-2.0)	BDL (DL-0.03)
	pringe.	20/04/2024	0.031	BDL (DL-0.0005)	BDL (DL-2.0)	BDL (DL-0.03)
		24/04/2024	0.028	BDL (DL-0.0005)	BDL (DL-2.0)	BDL (DL-0.03)
		27/04/2024	0.024	BDL (DL-0.0005)	BDL (DL-2.0)	BOR. (DL-0.03)
A REAL PROPERTY AND	CPCB Standards		1.0 (24 hrs)	240	6.0 (annual)	

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DL- Indicates detection limit of instrument/method and shall be considered as "absent".

Remark: - All Results are within Limit as per CPCB Standards.

Verified by Nidhi Dubey

Deputy Technical Manager

Snehal Raut

Deputy Technical Manager

---- End of Report----

Authorized Signatory

Dr. (Mrs.) S. D. Garway Quality Manager



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Ambient Air Quality-April-2024

Report No.:-	ALPL/30042024/1-7	Report Date:-	30/04/2024
Issued to :-	M/s Hindalco Industries Limited	Address:-	Samari Bauxite Mines, P.O. Kusmi, Distt.:-Balrampur (C.G.) - 497 222.
Type of Work-	Ambient Air Quality (Buffer Zone)	Sample Ref. No. :	ALPL/22042024/ENV-125/1- BZ -2 W1/A11 & A12, W2/A11 & A12, W3/A11 & A12, W4/A11 & A12.
Sample Drawn By:	Mr. Kailash Chahande	Sample Recd. Date	8,15,22,29 April-2024
Date of Analysis:-	9,16,23,30 April-2024	Sampling time	24 hrs
Sampling Procedure	ANtd/7.2/Mon-01		

Sr. No.	LOCATION	Date of sampling	PMie µg/m²	PM23 µg/m ³	5O: µg/m ³	NO2 µg/m ³	CO mg/m ¹
Method Reference		15 5182 (Part 23)	USEPA-40 (Part 50)	15:5182 (Part-2)	15:5182 (Part-6)	25:5182 (Part-10)	
	03/04/2024	57.2	16.9	8.4	23,6	BDL (DL -0.5)	
		06/04/2024	63.9	21.8	12.6	24.1	BDL (DL - 0.5
	YAR COMPL	10/04/2024	64.1	23.6	11.4	17.9	BDL (DL - 0.5
AAQ-7	Piprapat/Nr.	13/04/2024	56.3	18.3	9.2	26.4	BDL (DL - 0.5
	Mining Area	17/04/2024	54.9	16.2	8.7	23.7	BDL (DL - 0.5
	1101 (SHARTWICH 1995)	20/04/2024	62.8	21.6	12.6	21.9	BDL (DL - 0.5)
		24/04/2024	64.2	23.1	13.7	24.6	BDL (DL - 0.5
		27/04/2024	58.3	19.3	9.6	19.7	BDL (DL - 0.5
CPC8 Standards		100 (24 hrs)	60 (24 hrs)	80 (24 hrs)	80 (24 hrs)	2 (Shrs)	

Sr. No.	LOCATION	Date of sampling	Рь (µg/m ³)	Hg (µg/m ³)	As (ng/m ³)	Cr iµg/m ³ j	
Method Reference		15:5182 (Part 22)	Lab SOP	Lab SOP	Lab SOP		
		03/04/2024	0.036	8DL (DL-0.0005)	BDL (DL-2.0)	BDL(DL-0.03)	
		06/04/2024	0.024	BDL (DL-41.0005)	BDL (DL-2.0)	BDL(DL-0.03)	
		10/04/2024	0.021	BDL (DL-0.005)	BDL (DL-2.0)	BDL (DL-0.03)	
AAQ-7	Piprapat/Nr.	13/04/2024	0.029	BDL (DL-0.0005)	BDL (DL-2.0)	BDL (DL-0.03)	
Contrage of	Mining Area	17/04/2024	0.018	BDL (DL-0.0005)	BDI. (DL-2.0)	BDL (DL-0.03)	
	1.1111111111111111111	20/04/2024	0.024	8DL (DL-0.0005)	BDL (DL-2.0)	BDL (DL-0.03)	
			24/04/2024	0.026	8DL (DL-0.0005)	BDL (DL-2.0)	8DL (DL-0.03)
		27/04/2024	0.021	BDL (DL-0.0005)	BDL (DL-2.0)	BDL (DL-0.03)	
CPCB Standards			1.0 (24 hrs)		6.0 (annual)	and a second second second second second second second second second second second second second second second	

NOTES:

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IDL- Below detection limit

UL- Indicates detection limit of instrument/method and shall be considered as 'absent'.

Remark: - All Results are within Limit as per CPCB Standards.

Verified by

Nidhi Dubey Deputy Technical Manager

Snehal Raut

Deputy Technical Manager

Authorized Signatory

Dr. (Mrs.) S. D. Garway Quality Manager

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Ambient Air Quality-April-2024

Report No .:-	ALPL/30042024/1-8	Report Date:-	30/04/2024
Issued to :-	M/s Hindalco Industries Limited	Address:-	Samari Bauxite Mines, P.O. Kusmi, Distt.:-Balrampur (C.G.) - 497 222.
Type of Work:-	Ambient Air Quality (Buffer Zone)	Sample Ref. No. :	ALPL/22042024/ENV-125/1- BZ-3 W1/A11 & A12, W2/A11 & A12, W3/A11 & A12, W4/A11 & A12.
Sample Drawn By:	Mr. Kailash Chahande	Sample Recd. Date	8,15,22,29 April-2024
Date of Analysis:-	9,16,23,30 April-2024	Sampling time	24 hrs
Sampling Procedure	ANtd/7.2/Mon-01		

Sr. No.	LOCATION	Date of sampling	PMas jug/m ³	PMzs µg/m ³	SO; µg/m ³	NO2 µg/m ³	CO mg/m ³
Method Reference		18 5182 (Part 23)	USEPA-40 (Part 50)	15:5182 (Part-2)	IS:5182 (Part-6)	15:5182 (Part-10)	
		03/04/2024	68.3	24,7	13.9	26.7	BDL (DL-0.5)
	0.26/76-00020	96/04/2024	72.8	26.4	12.1	21.6	BDL (DL-0.5
		10/04/2024	61.9	19.3	11.6	23.4	BDL (DL-0.5
AAQ-8	Virhorepat	13/04/2024	64.1	21.6	9.3	17.3	BDL (DL - 0.5
sered o	Village	17/04/2024	57.3	19.2	11.4	18.6	BDL (DL - 0.5
	2012000	20/04/2024	64.9	23.8	8.7	21.8	BDL (DL - 0.5
		24/04/2024	67.2	24.1	11.6	23,4	BDI. (DL-0.5
		27/04/2024	56.7	21.9	9.7	18.3	BDL (DL - 0.5
CPCB Standards		100 (24 hrs)	60 (24 hrs)	80 (24 hrs)	80 (24 hrs)	2 (8hrs)	

Sr. No.	LOCATION	Date of sampling	Pb (µg/m ³)	Hg (µg/m ³)	As (ng/m ³)	Cr (µg/m ³)
Method Reference			15:5182 (Part 22)	Lab SOP	Lab SOP	Lab SOP
		03/04/2024	0.026	IIDL (DL-0.0005)	8DL (DL-2.0)	BDL(DL-0.03)
	1	06/04/2024	0.024	BDL (DL-0.0005)	BDL (DL-2.0)	BDL(DL-0.03)
		10/04/2024	0.021	BDL (DL-0.0005)	8DL (DL-2.0)	BDL (DL-0.03)
AAQ-8	Virhorepat	13/04/2024	0.019	8DL (DL-0.0005)	BDL (DL-2.0)	BDL (DL-0.03)
11112 1	Village	17/04/2024	0.024	BDL (DL-0.0005)	BDL (DL-2.0)	BDL (DL-0.03)
	0.00000	20/04/2024	0.026	BDL (DL-0.0005)	BDL (DL-2.0)	BDL (DL-0.03)
		24/04/2024	0.018	BDL (DL-0.0005)	BDL (DL-2.0)	BDL (DL-0.03)
		27/04/2024	0.024	BDL (DL-0.0005)	BDL (DL-2.0)	BDL (DL-0.03)
CPCB Standards		1.0 (24 hrs)		6.0 (annual)		

NOTES:

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BDL- Below detection limit

DL- Indicates detection limit at instrument/method and shall be considered as 'absent'.

Remark: - All Results are within Limit as per CPCB Standards.

Nidhi Dubey Deputy Technical Manager

Verified by

Snehal Raut Deputy Technical Manager

Authorized Signatory 1ai

Dr. (Mrs.) S. D. Garway Quality Manager

----End of Report----

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Test Report

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Ambient Air	Quality-July-2024	
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Report No .:-	ALPL/05082024/1-1	Report Date:-	05/08/2024
Issued to :-	M/s Hindalco Industries Limited	Address:-	Samari Bauxite Mines, P.O. Kusmi, Distt.:-Balrampur (C.G.) - 497 222.
Type of Work-	Ambient Air Quality (Core Zone)	Sample Inward No.	ALPL/22072024/MON-268-EAAQ-1/64-1
Sampling done by	Anacon Representative Mr. Kailash Chabande	Sample Inward Date	8,15,22,29 July-2024 & 2-Aug-2024
Test Started On:-	8,15,22,29 July-2024 & 2-Aug-2024	Test Completed On	9,16,23,30 July-2024 & 2-Aug-2024
Sampling Procedure	ANtd/7.2/Mon-01	encontraction of blood of the	

Sr. No.	LOCATION	Date of sampling	Particulate Matter (PM10) µg/m ⁵	Particulate Matter (PM2.5) µg/m ³	Sulphur dioxide µg/m ³	Oxides of Nitrogen µg/m ³	Carbon Monoxide (as CO) mg/m ¹
	Test Metho	1	15.5182 (Part 23)	USEPA-40(Part 50)	15:5182(Part-2)	15:5182 (Part-6)	IS:5182 (Part-10)
L	Discipline: Cher	nical	Group: Atr	ospheric Pollution	Material	or Product tested	: Ambient Air
	and the second second	01/07/2024	58.2	26.1	11,4	19,7	BLQ (LOQ-0.5)
		04/07/2024	52.9	21.6	11.7	18.3	BLQ (LOQ-0.5)
	A COMPANY	08/07/2024	62.7	23.8	11.9	24.7	BLQ (LOQ-0.5)
	Samri-Gopatu/	11/07/2024	62.7	23.8	12.6	.24.7	BLQ (LOQ-0.5)
AAQ-1	Near Weigh	15/07/2024	56:1	16.9	B.7	16.7	BLQ (LOQ-0.5)
	bridge	18/07/2024	52.9	19.2	11.4	19.2	BLQ (LOQ-0.5)
		22/07/2024	51.8	21.6	11.9	21.8	BLQ (1.0Q-0.5)
		25/07/2024	47.3	19.1	9.3	18.7	BLQ (LOQ-0.5)
	NAAQMS Stan	and the second distance of the second distanc	100 (24 hrs)	60 (24 hrs)	80 (24 hrs)	80 (24 hrs)	2.0 (8 hrs)

Sr. No.	LOCATION	Date of sampling	Lead as Pb µg/m³	Mercury as Hg µg/m ³	Arsenic as As ng /m ³	Chromium as Cr µg /m ³
	Test Method	0	ANte/7.2/RES- INORG/04	ANtr/7.2/RES- INORG/04	ANtr/7.2/RE5- INORG/04	ANtr/7.2/RES- INORG/04
1		01/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
		04/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
		08/07/2024	BLQ (LOQ-0.2)	BLQ-(LOQ-0.0005)	BLQ (LOQ-2.0)	8LQ (LOQ-0.03)
10000	Samri-Gopaba/	11/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
AAQ-1	Near Weigh bridge	15/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
		18/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
		22/07/2024	HLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
		25/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
NAAQMS Standards			1.0 (24 hrs)		6.0 (annual)	

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HLQ= below limit of quantification , LOQ= limit of quantification. • Environmental condition - Satisfactory. • Statement of conformity issued on the basis of decision rule as per quality procedure (QP/7.5/05).

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by

Snenal Raut **Technical Manager**

Prade a Pillera Deputy Technical Manager

---- End of Report----

Authorized Signatory

Chinman Garway Deputy Quality Manager

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Test Report

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Report No .:-	ALPL/05082024/1-2	Report Date:-	05/08/2024
Issued to :-	M/s Hindalco Industries Limited	Address:-	Samari Bauxite Mines, P.O. Kusmi, Distt.:-Balrampur (C.G.) - 497 222.
Type of Work>	Ambient Air Quality (Core Zone)	Sample Inward No.	ALP1/22072024/MON-268-EAAQ-1/64-2
Sampling done by	Anacon Representative Mr. Kailash Chahande	Sample Inward Date	8,15,22,29 July-2024 & 2-Aug-2024
Test Started On:-	8,15,22,29 July-2024 & 2-Aug-2024	Test Completed On	9,16,23,30 July-2024 & 2-Aug-2024
Sampling Procedure	ANtd/7.2/Mon-01	CTUSSED DO INCOM TRUCTUR	

Ambient Air Quality-July-2024

Sr. No.	LOCATION	Date of sampling	Particulate Matter (PM10) µg/m ³	Particulate Matter (PM2.5) µg/m ³	Sulphur dioxide µg/m ³	Oxides of Nitrogen µg/m ³	Carbon Monoxid (as CO) mg/m ³
	Test Method		15 5182 (Part 23)	USEPA-40(Part 50)	15:5182(Part-2)	IS:5182 (Part-6)	15:5182 (Part-10)
L	Discipline: Chem	ical	Group: /	Atmospheric Pollution	n Mater	rial or Product tes	sted : Ambient Air
		01/07/2024	56.1	26.1	11.6	23.9	BLQ (LOQ-8.5)
		04/07/2024	47.3	24.9	9.7	18.3	BLQ (LOQ-0.5)
		08/07/2024	51.8	18.3	5.4	16.4	BLQ (LOQ-0.5)
	Dhapdiapat/	11/07/2024	56.2	23.7	11.9	21.8	BLQ (LOQ-8.5)
AAQ-2	Nr. Mining Area	15/07/2024	49.3	19.1	9.7	18.3	BLQ (1.OQ-0.5)
	0.0000000000000000000000000000000000000	18/07/2024	46.7	18.3	8.4	17.6	BLQ (1.0Q-0.5)
		22/07/2024	53.6	23.8	11.3	23.9	BLQ (LOQ-0.5)
		25/07/2024	48.2	17.1	9.6	21.8	BLQ (LOQ-0.5)
N	AAQMS Standar	ds	100 (24 hrs)	60 (24 hrs)	80 (24 hrs)	80 (24 hrs)	2.0 (8 hrs)

Sr. No.	LOCATION	Date of sampling	Lead as Pb µg/m ³	Mercury as Hg µg/m ³	Arsenic as As ng /m ³	Chromium as Cr µg /m ³
	Test Method		ANtr/7.2/RES- INORG/04	ANtr/7.2/RES- INORG/04	ANtr/7.2/RES- INORG/04	ANtr/7.2/RES- INORG/04
		01/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-6.03)
		04/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
		08/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
10.002	Dhandiapat/	11/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
AAQ-2	Nr. Mining Area	15/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
	contracting a second	18/07/2024	BLO (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
		22/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
		25/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.05)
NAAOMS Standards			1.0 (24 hrs)		6.0 (annual)	

NOTES: • Please see watermark "Original Test Report" to confirm the authenticity of this report. • Results shall be referred to tested sample(s) and applicable to tested parameters only. • Test report shall not be reproduced except in full without prior written approval of Anacon Labs. • BLQ= below limit of quantification , LOQ- limit of quantification. • Environmental condition - Satisfactory. • Statement of conformity issued on the basis of decision rule as per quality procedure (QP/7.8/05).

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by



Prade Deputy Technical Manager

-----End of Report-----

Authorized Signatory

Hinmay G way uty Quality Manager

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Test Report

Amhient Air Quality-July-2024

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Report No.:-	ALPL/05082024/1-3	Report Date:-	05/08/2024
Issued to :-	M/s Hindalco Industries Limited	Address:-	Samari Bauxite Mines, P.O. Kusmi, Distt.:-Balrampur (C.G.) - 497 222.
Type of Work:-	Ambient Air Quality (Core Zone)	Sample Inward No.	ALPL/22072024/MON-268-EAAQ-1/64-3
Sampling done by	Anacon Representative Mr. Kailash Chahande	Sample Inward Date	8,15,22,29 July-2024 & 2-Aug-2024
Test Started On:-	8,15,22,29 July-2024 & 2-Aug-2024	Test Completed On	9,16,23,30 July-2024 & 2-Aug-2024
Sampling Procedure	ANtd/7.2/Mon-01	NUMERAL AND ADDRESS OF A DECEMPENSION	

Sr. No.	LOCATION	Date of sampling	Particulate Matter (PM10) µg/m ³	Particulate Matter (PM2.5) µg/m ³	Sulphur dioxide µg/m ³	Oxides of Nitrogen µg/m ³	Carbon Monoxide (as CO) mg/m ³
	Test Method		15 5182 (Part 23)	USEPA-40(Part 50)	15:5182(Part-2)	IS:5182 (Part-6)	15:5182 (Part-10)
L	Discipline: Chen	nical	Group: /	Atmospheric Pollution	Mate:	rial or Product tes	ited : Ambient Air
		01/07/2024	56,2	24.9	12.6	18.3	BLQ (LOQ-0.5)
		04/07/2024	58.3	21,4	11.6	19.3	BLQ (LOQ-0.5)
		08/07/2024	57.3	21.8	11.9	21.4	BLQ (LOQ-0.5)
	Kutku Village/	11/07/2024	54.1	16.4	8.1	16.2	BLQ (LOQ-0.5)
AAQ-3	Nr. V.T. Center	15/07/2024	53.6	23.8	11.4	21.9	BLQ (LOQ-0.5)
	12.10.224640.000	18/07/2024	54.7	19.1	9.3	18.7	BLQ (LOQ-0.5)
		22/07/2024	48.2	23.6	12,8	24.1	BLQ (LOQ-0.5)
		25/07/2024	63.1	23.8	11.6	21.7	BLQ (LOQ-0.5)
N	AAQMS Standar	ds	100 (24 hrs)	60 (24 hrs)	80 (24 hrs)	80 (24 hrs)	2.0 (8 hrs)

Sr. No.	LOCATION	Date of sampling	Lead as Pb µg/m ⁸	Mercury as Hg µg/m ³	Arsenîc as As ng /m ³	Chromium as Cr µg /m ³
	Test Method		ANte/7.2/RES- INORG/04	ANtr/7.2/RES- INORG/04	ANtr/7.2/RES- INORG/04	ANte/7.2/RES- ENORG/04
		01/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
		04/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.83)
		08/07/2824	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
	Kutku Village/	11/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
AAQ-3	Nr. V.T. Center	15/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
		18/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
		22/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
		25/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ-(LOQ-0.03)
NAAQMS Standards			1.0 (24 hrs)		6.0 (annual)	

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Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by

Prade

Snehal Raut Technical Manager

Deputy Technical Manager ----End of Report----

Authorized Signatory

hinmay Garway outy Quality Managet

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Test Report

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Ambient Air Quality-July-2024

Report No .:-	ALPL/05082024/1-4	Report Date:-	05/08/2024
Issued to :-	M/s Hindalco Industries Limited	Address:-	Samari Bauxite Mines, P.O. Kusmi, Distt.:-Balrampur (C.G.) - 497 222.
Type of Work-	Ambient Air Quality (Core Zone)	Sample Inward No.	ALPL/22072024/MON-268-EAAQ-1/64-4
Sampling done by	Anacon Representative Mr. Kailash Chahande	Sample Inward Date	8,15,22,29 July-2024 & 2-Aug-2024
Test Started On-	8,15,22,29 July-2024 & 2-Aug-2024	Test Completed On	9,16,23,30 July-2024 & 2-Aug-2024
Sampling Procedure	ANtd/7.2/Mon-01		

Sr. No.	LOCATION	Date of sampling	Particulate Matter (PM10) µg/m ³	Particulate Matter (PM2.5) µg/m ³	Sulphur dioxide µg/m ³	Oxides of Nitrogen µg/m ³	Carbon Monoxide (as CO) mg/m ¹
	Test Method		IS 5182 (Part 23)	USEPA-40(Part 50)	15:5182(Part-2)	IS:5182 (Part-6)	15:5182 (Part-10)
L	Discipline: Chem	ical	Group: /	Atmospheric Pollution	n Mater	rial or Product tes	ted : Ambient Air
		01/07/2024	62.9	28.6	12.4	21.6	BLQ (LOQ-0.5)
		04/07/2024	58.3	24.9	9,3	18.7	BLQ (LOQ-0.5)
		08/07/2024	61.7	23.8	11.6	19.3	BLQ (LOQ-0.5)
	Dumerkholi/	11/07/2024	56.2	19.3	8.7	16.4	BLQ (LOQ-0.5)
AAQ-4	Nr. Mining Area	15/07/2024	63.9	16.2	7.6	15.9	BLQ (LOQ-0.5)
	Art. Minning Friese	18/07/2024	58.2	23.6	11.3	18.2	BLQ (LOQ-0.5)
	1 3	22/07/2024	57.2	21.4	12.4	21.8	BLQ (LOQ-0.5)
		25/07/2024	49.1	18.3	93	17.3	BLQ (LOQ-0.5)
N	AAQMS Standar	ds	100 (24 hrs)	60 (24 hrs)	80 (24 hrs)	80 (24 hrs)	2.0 (8 hrs)

St. No.	LOCATION	Date of sampling	Lead as Pb µg/m³	Mercury as Hg µg/m ³	Arsenic as As ng/m ³	Chromium as Cr µg/m ³
	Test Method		ANtr/7.2/RES- INORG/04	ANtr/7.2/RES- INORG/04	ANtr/7.2/RES- INORG/04	ANtr/7.2/RES- INORG/04
	1	01/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
		04/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
		08/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
66666	Dumerkholi/	11/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
AAQ-4	Nr. Mining Area	15/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
	6	18/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
		22/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
		25/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
NAAOMS Standards			1.0 (24 hrs)		6.0 (annual)	

NOTES:
Please see watermark "Original Test Report" to confirm the authenticity of this report.
Results shall be referred to tested sample(s) and applicable to tested parameters only.
Test report shall not be reproduced except in fall without prior written approval of Anacon Labs.
BLQ= below limit of quantification.
LOQ= limit of quantification.
Environmental condition - Satisfactory.
Statement of conformity issued on the basis of decision rule as per quality procedure (OP/7.8/05).

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by

Selehal Raut Technical Manager

Prade

ger Deputy Technical Manager

---- End of Report----

Authorized Signatory Chinmay Grway Deputy Quality Manager

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Test Report

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Report No .:-	ALPL/05082024/1-5	Report Date:-	05/08/2024
Issued to :-	M/s Hindalco Industries Limited	Address:-	Samarī Bauxīte Mines, P.O. Kusmi, Distt.:-Balrampur (C.G.)- 497 222,
Type of Work:-	Ambient Air Quality (Buffer Zone)	Sample Inward No.	ALPL/22072024/MON-268-EAAQ-1/64-5
Sampling done by	Anacon Representative Mr. Kailash Chahande	Sample Inward Date	8,15,22,29 July-2024 & 2-Aug-2024
Test Started On:-	8,15,22,29 July-2024 & 2-Aug-2024	Test Completed On	9,16,23,30 July-2024 & 2-Aug-2024
Sampling Procedure	ANtd/7.2/Mon-01		

Ambient Air Quality-July-2024

Sr. No.	LOCATION	Date of sampling	Particulate Matter (PM10) µg/m ³	Particulate Matter (PM2.5) µg/m ¹	Sulphur dioxide µg/m ³	Oxides of Nitrogen µg/m ³	Carbon Monoxide (as CO) mg/m ³
	Test Method		15 5182 (Part 23)	USEPA-40(Part 50)	15:5182(Part-2)	15:5182 (Part-6)	15:5182 (Part-10)
1.	Discipline: Chemic	al	Group: Atm	ospheric Pollution	Material	or Product tested	: Ambient Air
		02/07/2024	58.3	24.9	11.6	18.3	BLQ (LOQ-0.5)
		05/07/2024	61.9	23.8	11.4	18.1	BLQ (LOQ-0.5)
		09/07/2024	54.7	21.6	9.3	16.8	BLQ (LOQ-0.5)
1122	and the second second	12/07/2024	49.3	18.3	9.3	18.6	BLQ (LOQ-0.5)
AAQ-5	Sairaidh Campus	16/07/2024	51.6	19.3	11.4	21.1	BLQ (LOQ-0.5)
		19/07/2024	54.1	21.3	11.4	19.2	BLQ (LOQ-0.5)
		23/07/2024	58.3	21.6	9.3	18.3	BLQ (LOQ-0.5)
		26/07/2024	52.8	16.9	11.3	23.8	BLQ (LOQ-0.5)
	NAAQMS Standa	rds	100 (24 hrs)	60 (24 hrs)	80 (24 hrs)	80 (24 hrs)	2.0 (8 hrs)

Sr. No.	LOCATION	Date of sampling	Lead as Pb µg/m ³	Mercury as Hg µg/m ³	Arsenic as As ng /m ³	Chromium as Cr µg/m ³
	Test Method		ANtr/7.2/RES- INORG/04	ANtr/7.2/RE5- INORG/04	ANit/7.2/RE5- INORG/04	ANtr/7.2/RES- INORG/04
		02/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
		05/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
		09/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
		12/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-(1.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
AAQ-5	Sairaidh Campus	16/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
		19/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
		23/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
		26/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
NAAQMS Standards			1.0 (24 hrs)		6.0 (annual)	(a

NOTES:

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Results shall be referred to instead sample(s) and applicable to bested parameters only.

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BLQ= balaw limit of quantification, IOQ= limit of quantification.

Environmental condition - Satisfactory.

Statement of conformity issued on the basis of decision rule as per quality procedure (QP/7.8/05).

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by

Snehål Raut **Technical Manager**

Pradnya Pillewan Deputy Technical Manager

----End of Report----

Authorized Signatory Chinmay Karway Deputy Quality Manager

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Test Report

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Ambient Air Quality-July-2024

Report No .:-	ALPL/05082024/1-6	Report Date:-	05/08/2024
Issued to :-	M/s Hindalco Industries Limited	Address:-	Samari Bauxite Mines, P.O. Kusmi, Distt.:-Balrampur (C.G.)- 497 222.
Type of Work-	Ambient Air Quality (Buffer Zone)	Sample Inward No.	ALPL/22072024/MON-268-EAAQ-1/64-6
Sampling done by	Anacon Representative Mr. Kailash Chahande	Sample Inward Date	8,15,22,29 July-2024 & 2-Aug-2024
Test Started On:-	8,15,22,29 July-2024 & 2-Aug-2024	Test Completed On	9,16,23,30 July-2024 & 2-Aug-2024
Sampling Procedure	ANtd/7.2/Mon-01	10000000000000000000000000000000000000	

Sr. No.	LOCATION	Date of sampling	Particulate Matter (PM10) µg/m ²	Particulate Matter (PM2.5) µg/m ³	Sulphur dioxide µg/m ^t	Oxides of Nitrogen µg/m ³	Carbon Monoxide (as CO) mg/m ¹
	Test Method		15 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	15:5182 (Part-6)	IS5182 (Part-10)
L.	Discipline: Chemic	al	Group: Atr	ospheric Pollution	Material	or Product tested	: Ambient Air
		03/07/2024	57.2	21.6	12.1	23.6	BLQ (LOQ-0.5)
		06/07/2024	61.9	24.7	13.6	24.9	BLQ (1.0Q-0.5)
	the second second	10/07/2024	56.1	18.3	9.2	17.2	BLQ (LOQ-0.5)
	Tatijharia Village/	13/07/2024	53.6	16.4	8.4	16.7	BLQ (LOQ-0.5)
AAQ-6	Nr.Weigh Bridge	17/07/2024	48.2	15.9	7.6	16.1	8LQ (LOQ-0.5)
		20/07/2024	53.9	21.6	11.3	23.8	BLQ (LOQ-0.5)
		24/07/2024	49.7	18.2	9.1	18.4	BLQ (LOQ-0.5)
		27/07/2024	51.3	21.7	11.4	24.6	BLQ (LOQ-0.5)
1	NAAQMS Standar	rds	100 (24 hrs)	60 (24 hrs)	80 (24 hrs)	80 (24 hrs)	2.0 (8 hrs)

Sr. No.	LOCATION	Date of sampling	Lead as Pb µg/m ³	Mercury as Hg µg/m ³	Arsenic as As ng/m ³	Chromium as Cr µg/m ³
	Test Method		ANtr/7.2/RES- INORG/04	ANtr/7.2/RES- INORG/04	ANtr/7.2/RE5- INORG/04	ANtr/7.2/RE5- INORG/04
		03/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
		06/07/2024	BLQ (LOQ-0.2)	BLQ (1.OQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
		10/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
1102	Tatijharia Village/	13/07/2024	BLQ (LOQ-0.2)	BEQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
AAQ-6	Nr.Weigh Bridge	17/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
		20/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
		24/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
		27/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	8LQ (LOQ-0.03)
NAAQMS Standards			1.0 (24 hrs)		6.0 (annual)	

NOTES: • Please see watermark "Original Test Report" to confirm the authenticity of this report. • Results shall be referred to tested sample(s) and applicable to tested parameters only. • Test report shall not be reproduced except in full without prior written approval of Anacon Labs. • BLQ= below limit of quantification , LOQ= limit of quantification. • Environmental condition - Satisfactory. • Statement of conformity issued on the basis of decision rule as per quality procedure (QP/7.805).

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by



Pradnya Pillewan Deputy Technical Manager

----End of Report----

Authorized Signatory

Thank you for instilling your trust and faith in our services. We cherish our relationship with you, and we put in a lot of hard work in making sure that you get a seamless experience at every stage of your interaction with us. In our constant endeavor lowards ensuring that your next experience will be significantly better than the current one, we welcome your feedback on feedback@anacon.in.



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Test Report

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Ambient Air Quality-July-2024

Report No .:-	ALPL/05082024/1-7	Report Date:-	05/08/2024
Issued to :-	M/s Hindalco Industries Limited	Address:-	Samari Bauxite Mines, P.O. Kusmi, Distt.:-Balrampur (C.G.)- 497 222.
Type of Work:- Ambient Air Quality (Buffer Zone)		Sample Inward No.	ALPL/22072024/MON-268-EAAQ-1/64-7
Sampling done by	Anacon Representative Mr. Kailash Chahande	Sample Inward Date	8,15,22,29 July-2024 & 2-Aug-2024
Test Started On:-	8,15,22,29 July-2024 & 2-Aug-2024	Test Completed On	9,16,23,30 July-2024 & 2-Aug-2024
Sampling Procedure	ANtd/7.2/Mon-01		

Sr. No.	LOCATION	Date of sampling	Particulate Matter (PM10) µg/m ³	Particulate Matter (PM2.5) µg/m ²	Sulphur dioxide µg/m ³	Oxides of Nitrogen µg/m ¹	Carbon Monoxide (as CO) mg/m ³
	Test Method		IS 5182 (Part 23)	USEPA-40(Part 50)	15:5182(Part-2)	15:5182 (Part-6)	15:5182 (Part-10)
I.	Discipline: Chemic	al	Group: Atm	ospheric Pollution	Material	or Product tested	: Ambient Air
		03/07/2024	54.3	15.9	7.6	16.5	BLQ (LOQ-0.5)
		06/07/2024	56.1	16.4	8.4	17.3	BLQ (LOQ-0.5)
		10/07/2024	61.4	21.9	12.6	23.4	BLQ (LOQ-0.5)
	Piprapat/	13/07/2024	58.3	18.1	9.2	18.7	IILQ (LOQ-0.5)
AAQ-7	Nr. Mining Area	17/07/2024	54.1	16.7	8.4	17.9	BLQ (LOQ-0.5)
	Server and the server of the	20/07/2024	61.9	23.4	11.6	21.4	BLQ (LOQ-0.5)
		24/07/2024	58.3	21.9	9.3	18.2	BLQ (LOQ-0.5)
		27/07/2024	54.7	19.3	8.4	17.6	BLQ (LOQ-0.5)
	NAAQMS Standa	rds	100 (24 hrs)	60 (24 hrs)	80 (24 hrs)	80 (24 hrs)	2.0 (8 hrs)

Sr. No.	LOCATION	Date of sampling	Lead as Pb µg/m ³	Mercury as Hg µg/m³	Arsenic as As ng/m ²	Chromium as Cr µg /m ³
Test Method			ANtr/7.2/RE5- INORG/04	ANtr/7.2/RES- INORG/04	ANtr/7.2/RES- INORG/04	ANtr/7.2/RES- INORG/04
		03/07/2024	BLQ (LOQ-0.2)	IfLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
		06/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
		10/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
440.7	Piprapat/	13/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
AAQ-7	Nr. Mining Area	17/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
	1.100-01-00-00-00-00-00-00-00-00-00-00-00-	20/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
		24/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
		27/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
NAAQMS Standards			1.0 (24 hrs)		6.0 (annual)	

NOTES:
Please see watermark "Original Test Report" to confirm the authenticity of this report.
Results shall be referred to tested sample(s) and applicable to tested parameters only.
Test report shall not be reproduced except in full without prior written approval of Anacon Labs.
BLQ= below limit of quantification.
LOQ= limit of quantification.
Environmental condition – Satisfactory.
Statement of conformity issued on the basis of decision rule as per quality procedure (QP/7.805).

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by

Technical Manager

Pillewan Pradny Deputy Technical Manager

----End of Report----

Authorized Signatory

Jerimay Ga an puty Quality Managet

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Test Report

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Ambient Air Quality	j-jul	y-2024
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Report No .:-	ALPL/05082024/1-8	Report Date:-	05/08/2024
Issued to :-	M/s Hindalco Industries Limited	Address:-	Samari Bauxite Mines, P.O. Kusmi, DisttBalrampur (C.G.)- 497 222.
Type of Work:-	Ambient Air Quality (Buffer Zone)	Sample Inward No.	ALPL/22072024/MON-268-EAAQ-1/64-8
Sampling done by	Anacon Representative Mr. Kailash Chahande	Sample Inward Date	8,15,22,29 July-2024 & 2-Aug-2024
Test Started On:-	8,15,22,29 July-2024 & 2-Aug-2024	Test Completed On	9,16,23,30 July-2024 & 2-Aug-2024
Sampling Procedure	ANtd/7.2/Mon-01	8	

Sr. No.	LOCATION	Date of sampling	Particulate Matter (PM10) µg/m ³	Particulate Matter (PM2.5) µg/m ³	Sulphur dioxide µg/m ³	Oxides of Nitrogen µg/m ¹	Carbon Monoxide (as CO) mg/m ³
	Test Method		15 5182 (Part 23)	USEPA-40(Part 50)	IS:5182(Part-2)	15:5182 (Part-6)	IS:5182 (Part-10)
I.	Discipline: Chemi	cal	Group: Atm	aspheric Pollution	Material	or Product tested	: Ambient Air
		03/07/2024	61.7	23.7	11.9	21.8	BLQ (LOQ-0.5)
		06/07/2024	58.3	19.2	9.4	18.3	BLQ (LOQ-0.5)
		10/07/2024	54.6	18.6	8.1	17.6	BLQ (LOQ-0.5)
		13/07/2024	61.8	21.7	11.3	23.7	BLQ (LOQ-0.5)
AAQ-8	Virhorepat	17/07/2024	56.2	19.3	9.1	18.2	BLQ (LOQ-0.5)
		20/07/2024	48.7	16.4	8.7	17.3	8LQ (LOQ-0.5)
		24/07/2024	51,6	18.1	6.8	16.1	BLQ (LOQ-0.5)
(27/07/2024	47.2	16.3	8.1	17.9	8LQ (LOQ-0.5)
	NAAQMS Standa	ards	100 (24 hrs)	60 (24 hrs)	80 (24 hrs)	80 (24 hrs)	2.0 (8 hrs)

St. No.	LOCATION	Date of sampling	Lead as Pb µg/m ³	Mercury as Hg µg/m ³	Arsenic as As ng /m ³	Chromium as Cr µg/m ³
Test Method			ANtr/7.2/RE5- INORG/04	ANitr/7.2/RE5- INORG/04	ANtr/7.2/RES- INORG/04	ANtr/7.2/RES- INORG/04
АЛQ-8	Virhorepat	03/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
		06/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
		10/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
		13/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
		17/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
		20/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
		24/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
		27/07/2024	HLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
NAAQMS Standards			1.0 (24 hrs)		6.0 (annual)	

NOTES:

Plause see watermark "Original Test Report" to confirm the authenticity of this report.

Results shall be referred to tested sample(s) and applicable to tested parameters only.

Test report shall not be reproduced except in full without prior written approval of Anacon Labs.

BLQ= below limit of quantification.

LOQ= limit of quantification.

Environmental condition - Satisfactory.

Statement of conformity issued on the basis of decision rule as per quality procedure (QP7.8/05).

Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by

Soehal Raut **Technical Manager**

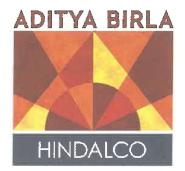
Pradron Pillescan Deputy Technical Manager

----End of Report----



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Annexure-H



Hindalco Industries Limited

Mines Division, Samri

Date: 22-01-2024

Environment Management Cell

An Environment Management Cell is reconstituted by the following members which is compliance of the EC Conditions for the Samri, Tatijharia and Kudag Bauxite Mines.

SI. No.	Name	Designation	Position
01		TT . J.O. Assut - C.M	Chairman
01	Mr. Sanjay Pardhi	Head & Agent of Mines	Chairman
02	Mr. Amit Tiwari	Manager-Mines	Secretary
03	Mr. Praween Pradhan	Manager-Geology	Member
04	Mrs. Madhusmita Parida	Asst. Manager-Env	Member
05	Mr. Ashutosh Saha	Asst. Manager-Sustainability	Member
06	Dr. Ajay Kumar	Medical Officer	Member
07	Mr. K K Singh	Dy. Manager	Member

(foged)

Agent of Mines

HINDALCO INDUSTRIES LIMITED Samri Mines, Division, Baba Chowk At & Post - Kusmi, PIN : 497 224, Distt - Balrampur-Ramanujganj (C.G.), INDIA Telephone + 91 7778 274326-27 FAX + 91 7776 274325

REGISTERED OFFICE

Ahura Centre, 1st Floor, B-Wing Mahakali Caves Road, Andheri (East) Mumbai 400 093, INDIA Telephone +91 22 6662 6666 Tel : +91 226691 7000 / Fax : +91 226691 7001

Webste : www.hindalco.com E-mail : hindalco@adityabirla.com Corporate Identity No. - L27020MH1958PLC011238

Annexure-I





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Annexure-J

HINDALCO INDUSTRIES LIMITED

Samri Mines Division

Actual Expenditure incurred in Environment Management Plan

Total cost incurred for protection of Environment in Samri, Tatijharia and Kudag Bauxite mines of Hindalco Industries Limited, Chhattisgarh during the period from April 2024 to September 2024 is mentioned below:

SI. No	Environment Protection Measure	Actual Cost (Lakhs) April'24 to Sept'24
1.	Environment Monitoring	5.63
2.	Greenbelt development	13.74
3.	Reclamation/ rehabilitation of mined out area (Samri 1.708Ha., Kudag-0 Ha., Tatijharia-2.989 Ha.) Total- 4.697 Ha .	14.09
	Total	31.37

- Environment Monitoring Job has been outsourced to Anacon Laboratory, recognized by MoEF & NABL.
- One centralized nursery has been established at Samri mines for Samri, Tatijharia & Kudag lease.
- Reclamation of mined out land has been out sourced along with production. Average cost of reclamation considered @ 3.00 lakh per ha.