

Ref. HIL/TBM/MoEF&CC/ (27/2/202

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: <u>iro.raipur-mefcc@gov.in</u>

Sub: - Status of compliance of EC condition (Half yearly status of compliance report) in respect of Tatijharia Bauxite Mine (Lease area- 1218.762 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-11015/337/2007-IA. II (M) dated Aug. 9, 2007

Dear Sir,

We do herewith submit half yearly status of EC compliance report in respect of Tatijharia Bauxite Mine, Lease area – 1218.762 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
1219 7(2 11-	400000 T	25.06.1998 to 24.06.2048
1218.762 Ha.	400000 Tonnes	(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: <u>moef.ddn@gmail.com</u>; <u>apccfcentral-ngp-mef@gov.in</u>; <u>eccompliance-cg@gov.in</u>; <u>cpcb.bhopal@gov.in</u>; <u>hocecb@gmail.com</u>;

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

Website : www.hindalco.com E-mail : hindalco@adityabirla.com Corporate Identity No. : L27020MH1958PLC011238 EC Compliance for Tatijharia Bauxite Mine (Mine Lease Area of 1218.762 Ha), Tehsil - Kusmi, District – Balrampur-Ramanujganj, State – Chhattisgarh

M/s. Hindalco Industries Limited Compliance Period: April- 2024 to September-2024

Name of the Project	:	Tatijharia Bauxite Mines (1218.762Ha. Capacity-4.00LTPA), M/s Hindalco Industries Ltd
Environment Clearance No & date	:	J-11015/337/2007 – IA.(IIM) dated 09.08.2007
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 under 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: Noted.

Condition-3: Conservation plan for schedule I fauna (if found in the study area) shall be prepared in consultation with Wildlife Department for implementation.

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 & fauna along with the approved conservation plan is attached as *Annexure* -B.

Condition-4: The mining operations shall be restricted to above ground water table and it shall not intersect ground water table. Prior approval of the Ministry and CGWA should be obtained for mining if any below water table.

Reply to Condition 4: The mining operation is restricted to well above ground water table. As per our current mining operation, ultimate depth of working is about 15-20 meters below. The ground water table is below the depth of our mining operation. Piezometer has been installed at strategic location in the Lease area for monitoring the ground water level and the average depth of which is 25-30m. Hence there is no intersection of groundwater level during course of mining operation.

Condition-5: Top soil, if any shall be stacked properly with proper slope with adequate safeguards and shall must be used for reclamation and rehabilitation of mined out area.

Reply to Condition 5: Top soil generated during mining operation is being concurrently spread on backfilled area to restore its original forms. However, if required it will be stacked properly with proper slope and adequate safeguards.

EC Compliance for Tatijharia Bauxite Mine (Mine Lease Area of 1218.762 Ha), Tehsil - Kusmi, District – Balrampur-Ramanujganj, State – Chhattisgarh

M/s. Hindalco Industries Limited Compliance Period: April- 2024 to September-2024



Land preparation for reclamation

Condition-6: Over burden 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 mine pit area shall be reclaimed by back filling the OB in a phased manner. 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: As such there is no any active OB dump at present. As per approved Mining Plan, OB generated during mine operation is being utilized for concurrently back filling of the mined out area for reclamation purpose. Old inactive OB dump has been stabilized by vegetation with suitable native species to prevent erosion and surface run off.



Old Inactive OB Dump with Plantation

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 settle ng 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. 80m long along with retaining wall of appropriate size (1m height x 0.5m width x 210m length) have been made around the active mining pits coupled with arrester to arrest silt from run-off and drains are being maintained. The drains are regularly desilted before the monsoon. The Water so collected are being used for green belt development and in sprinkling of the haul road. Sump of adequate capacity is also developed.

At present there is no active OB dump. Entire waste generated during mining operation is being simultaneously backfilled in the mined out pit. An old inactive OB dump has been stabilized by vegetation. Garland drain is provided to arrest silt and sediments flows from above mentioned OB dump.



Condition-8: The project proponent shall ensure that no natural water course shall be obstructed due to mining operation.

Reply to Condition 8: We undertake that no natural water course is obstructed during mining operation. There is only seasonal nala and the mining operation is diverted from the channel.

Condition-9: Blasting operations shall be carried out only during the day time. Controlled blasting shall be practiced. The drills should be operated with drill extractors. The mitigative measures for control of ground vibrations and arrest fly rocks shall be implemented. Blasting scientific based on peak particle velocity, charge per delay and blast geometry shall be evolved for maximum production. The same shall be submitted to the Ministry within six months.

Reply to Condition 9: Controlled blasting is being practiced in the mine. Wet drilling Machines are being used during drilling operations. Nonel & effective blast design are used to control blast vibration and fly rocks. Blasting is carried out only in day hours.

Condition-10: Plantation shall be raised in an area of 40.84 ha including green belt of adequate width by planting native species around the ML area, roads; OB dump sites etc. in consultation with the local DFO/Agriculture Department. The density of the trees shall be around 2500 plants per ha. Selection of plant species shall be as per CPCB guidelines. Herbs and shrubs shall also form a part of afforestation programme besides tree plantation.

Reply to Condition 10: Total 96.314 ha. have been afforested with 233887 nos. of species till date. The plantation in reclaimed area has been carried out as per plan. The density is being maintained about 2500 plant per hectare with the species like Amla, mango, babul, pears, guava and Jamun. Plantation has been carried out over 7.876 ha. with 19770 saplings during Apr'24 to Sep'24. Social forestry is also being encouraged among the local villagers. Apart from that local food grain rice & Tau has been planted over the reclaimed area of 1.500 Ha. Year wise plantation is enclosed as *Annexure-C*.

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: Rain water harvesting structure (2 nos. of Ponds and Wells) of area at 0.79 Ha. (Betpani), 0.69 Ha. (Piprapat-1) and 5ft. x 10 ft.) has been constructed as conservation measures in mined out area for the conservation/augmentation of ground water resources. Such measures also help in increasing the water credit of the Lease area.



RWH Pond & Recharge well

Condition-12: Regular water sprinkling shall be carried in critical areas prone to air pollution and having high levels of SPM and RSPM such as haul road, loading, unloading and transfer points and other vulnerable areas. It should be ensured that the ambient air quality parameters conform to the norms prescribed by the CPCB in this regard.

Reply to Condition 12: Regular water spraying with 12 KL water tanker in the mine lease hold area is being carried out regularly to control air pollution. The ambient air quality is within the stipulated norms.



Water Sprinkling in the Haul Road

Condition-13: 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 13: The depth of our mining operation varies from 15-20m. Piezometer has been installed at strategic location within the lease area to monitor the Ground Water level and the average depth of which is 25 to 30m. The ground water table is below the depth of our mining operation. Hence there is no intersection of groundwater level during course of mining operation. Regular monitoring of ground water quality is being carried out. The analysis reports are being submitted to CECB, Raipur. Regular monitoring of ground water level is being carried out and is found below level of mining operation. The ground water Quality & GW level report is attached in *Annexure – D*.

Condition-14: Rainwater harvesting measures on long term basis shall be planned and implemented in consultation with Regional Director, CGWB.

Reply to Condition 14: Permanent type Rainwater harvesting ponds/Recharge well has been made and the water is being used for plantation and dust suppression activity.

Condition-15: Prior permission from the competent authority shall be obtained for drawl of ground water, if any.

Reply to Condition 15: Ground water NOC has been obtained from the CGWA vide letter no. CGWA/NOC/MIN/REN/2/2023/7571, dated 03.04.2023 with validity up to 27.03.2025. This water is used for domestic purpose. We are not drawing ground water for industrial use, if required: the prior permission will be taken from competent authority. The GW NOC Copy is attached as *Annexure* – *E*.

Condition-16: Existing ecological status of the project area shall be conserved and protected. The project proponent should take all possible precautionary measures during mining operation for conservation and protection of endangered fauna.

Reply to Condition 16: All efforts are being taken to conserve and protect existing ecological status of the project area. We are taking important measures for conservation of flora and fauna are as follows.

- a) Company have been provided solar LED torch and florescent jacket 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 programme related to wildlife conservation is being conducted.

EC Compliance for Tatijharia Bauxite Mine (Mine Lease Area of 1218.762 Ha), Tehsil - Kusmi, District – Balrampur-Ramanujganj, State – Chhattisgarh

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- d) Eco-development activities like poultry, piggery, bee keeping etc. are being organized.
- e) Controlled blasting is being carried out so as reduce vibration and noise. Such operation is being carried out in day time only and its use is minimized.
- f) Plantation is regular activity.
- g) Fish farming with seeds of 5500 nos. has been done in water recharge pond.

Condition-17: Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The vehicles shall be covered with a tarpaulin and shall not be overloaded.

Reply to Condition 17: 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. Vehicle used for transportation are having valid permit. No overloading of ores for transportation is allowed to prevent spillage of material.



Condition-18: Occupational health and safety measures for the workers including training on modern eradication, HIV and health effects on exposure to mineral dust etc. shall be carried out. The company shall engage a full time qualified doctor who is trained in occupational health surveillance and health record of the workers shall be maintained.

Reply to Condition 18: Company has provided with personal protective equipment to all workers and training are also being imparted to them for safety & health, sanitation, health awareness camps including HIV are being organized for all workmen. One doctor having MBBS qualification has been appointed for facilitation of OHS. We have undergone through initial & periodical test of all workers employed in the mines by the certified team. The records related to initial and periodical medical examination of all workmen is being maintained.



Job Specific Safety Training at VTC

Condition-19: 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 19: 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 39 years. However, after completion of further detailed exploration programme and geological investigation, the balance life of mine is subject to change with respect to EC Capacity and cut –off grade of mineral at that particular time. Final Mine closure mine 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:** Noted.

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) 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: 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 have been 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 programme related to wildlife conservation is being conducted.
- d) Eco-development activities like poultry, piggery, bee keeping etc. are being organized.
- e)

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 is being carried out as per guideline and is being followed. For this, We have already appointed NABL accredited laboratory M/s. Anacon

EC Compliance for Tatijharia Bauxite Mine (Mine Lease Area of 1218.762 Ha), Tehsil - Kusmi, District – Balrampur-Ramanujganj, State – Chhattisgarh

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Laboratories Pvt. Ltd. for conducting regular environmental monitoring. The Summery of Ambient air quality report (from April 2024 to September 2024) is enclosed as *Annexure-F*.

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 CECB and to other regulatory authorities as per guidelines. Data of ambient air quality (RPM, SPM, SO2 and NOx) from April 2024 to September 2024 is enclosed as *Annexure-F*.

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: Fugitive dust emission from generating sources is being controlled. The dust extractor, wet drilling, regular water spraying with 12 KL portable water tanker in the mine lease hold area is being carried out regularly. 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.



Black top Road towards the mines and Water Sprinkling in the Haul Road

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.

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. For the waste water generated from workshop, oil and grease separation pits are provided and the treated water is being used for dust suppression in haul road.

Condition-9: Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with 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 center– Samri is being continued as per guidelines.

All employees undergo Lung Function Tests during the Medical Examination. Periodical Medical Examination of employees and contractor workers are organized regularly 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.

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-G*.

Condition-12: The project authorities shall inform to the Regional Office located at Bhopal regarding 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 document 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/1204/2024, 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-H*.

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 document 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/1204/2024, 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 Panchayat of Tatijharia on 13-08-2007 in our area. 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 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 http://envfor.nic 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 newspaper Hari Bhumi & Ambika Vani. The copy of same has been already submitted to your good office. News paper clip is attached 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: 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 21: 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	
पाल - pecfwightly com प्रमाक/र प्रा /प्रयध- 12/13/ 27/67 प्रति. संचालक. इन्वायरनमेंट क्लीयरेंश 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 ईन्वायरमेंट क्लीयरेंस। संदर्भ:- 1. पर्यावरण व वन मंत्रालय, मारत सरकार का पत्र क्रमांक 27 जुलाई 2007.	गः२३५२२२ रायपु जिला) में	र दिनांक ८) रिथत सा	and a state of the second second second
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 पर्यावरण व वन मंत्रालय, भारत संरकार का पत्र क्रमांक 27 जुलाई 2007. 	कि J-11015,	/353/2007-	A.II(M) दिनांक
27 जुलाई 2007.			المعام المعالية
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 पर्यावरेण व वन मंत्रालय, भारत सरकार का पत्र क्रम 9 अगस्त 2007. 	14 J-11015	/33//2007-	IA.II(M) 19119
9 31 14(1 2007.			
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	
हुये थे। सामरी क्षेत्र में भारत सरकार पर्यावरण व वन मंत्रात			
			Store and and
IA.II/M दिनांक 27 जुलाई, 2007 द्वारा 2146.746 हे. में, कु			100 million (100 million)
ें संत्रलाय आदेश क्रमांक J-11015/354/2007-IA.II/M दिनांव			A2
टाटीझरिया में भारत सरकार पंर्यावरण व वन मंत्रालय के अ	आदेश क्रमांक	5 J-11015/3	37/2007-IA.II/N
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।			
	¥0		. 21
Vijag/Sterm/Probandh			11.525
53			

वर्तमान प्रस्ताव में उपरीक्त लिक राजना के का तीमकी के लिये 10 मध्य में महाले 50 LPTA 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 –

197

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

988 B.

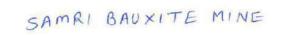
448).

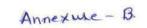
98 (HZ)

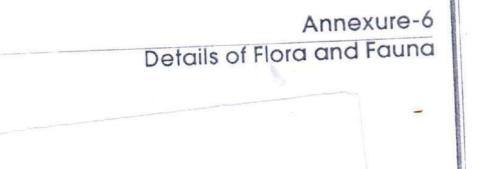
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11-3	🖌	लागत रू 160.00 जास	dibit-contrast of	$= -\alpha_{\rm eq} + -\alpha_{\rm e} \lesssim M_{\rm e} + 1$	। स यह लागत	
	a Gran ala sizan	2.5 g/s (91)	12	र्मन क संसंध आंची	िलागत आयर्ग	
1	यह परिश्वालना प्रणानको <mark>को</mark>	वन विभाग में एकमुश्त ज	मां करानी होगी। जि	समें मन्ध दहि कं व	ਮਾਰ को जम्मान	
2	कित्या जा राजन जनसंस्थान ए					
Э .	 अनुमोदित चन्यपाणे। राखण 					
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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 10 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	T	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 aspera		Compositae	Therophyte
	51	Adathoda vasica		Amaranthaceae Acanthaceae	Therophyte
	52	Adina cordifolia		Rubiaceae	Therophyte
	3	Aegle marmelos Aerva lanata		Rutaceae	Phanerophyte
	4	Aderatum 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
55		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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A6-2

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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 latifolia	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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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 Botanica Survey of India (Red data of Books of Indian Plants)			

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

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 eoofly	-	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	
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

Year wise /lease wise Afforestation details

Veer	Tatijharia lease			
Year	No. of Saplings	Area in Ha		
1998-2017	78925	32.060		
2017-18	8868	3.540		
2018-19	19967	7.990		
2019-20	32715	18.970		
2020-21	28739	12.819		
2021-22	21947	5.557		
2022-23	17110	5.628		
2023-24	5846	1.874		
2024-25	19770	7.876		
Total	233887	96.314		

HINDALCO INDUSTRIES LIMITED

Samri Mines Divison

Ground Water Level Data (April 2024 to September 2024)

Tatijharia Mine Lease Piezometer Reading						
S No	Month	Depth (meter)				
1	Apr-24	28.9				
2	May-24	29.7				
3	Jun-24	29.1				
4	Jul-24	28.4				
5	Aug-24	28.1				
6	Sep-24	27.2				

Annexure-D



Anacon Laboratories

Anocon Loboratories Pvt. Ltd. Nagpur Lob 9 FP-34, 35 Food Park, Five Star Industrial Estate, MIDC Butibori, Nagpur, Maharashtra, India - 441 122 C + 91 8045685558 C Email : Info[@anacon.in 9 https://www.anaconlaboratories.com

Test Report

Test Report No.: ALPL/29062024/2- Issued To : M/s Hindalco Industries Limited Tatijbaria, Post Jamira,	9 Sample Inward No. Inward Date Reference	Dated 29.06.2024 ALPL/21062024/1 21.06.2024 13562310264; 17.		1.0.000	ysis Start ysis End	Page 1 of 5 25.06.2024 29.06.2024
Tehsil Samri(Kusmi), District: Balrampur (C.G)		1.5.06.2106.04, 13,	03.2024	Sam	ple Category	Water
Sample Name Water	Sample Particulars / GW-1	Details	Purpose of analy Drinking	sis	Quantity 51	Received
Sample Collected By Anacon representative Mr. Anal Sapate Tests required Coliform, Escherichia coli, Alkalinity, Ammonia.		Sampling Date: Sampling Time:	16.06.2024 11:00 AM	Sampling Location Piprapat Nr. Mining		& fining

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

S.N.	Test Parameter	Measurement Unit	Test Method	Require IS 10: (Drinking Wa Including A	Test Result	
				Acceptable Limit	Permissible Limit #	1
1	Biological Testing 1. Water				and a second sec	
1	Coliform	Per 100 ml	IS 15185 ; 2016	Absent	Absent	Absent
2	Escherichia coli	Per 100 ml	15 15185 : 2016	Absent	Absent	Absent
п	Chemical Testing 1. Water					
3	Total Alkalinity (as Calcium Carbonate)	mg/l	15 3025 (Part 23) : 1986	200	600	93.75
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	IS 13428 : (Annex K): 2005	0.2	1.0	BDL (DL + 0.01)
6	Colour	Hazen units	1S 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	15 3025 (Part 32):1988	250	1000	27.60
9	Calcium (as Ca)	mg/l	IS 3025 (Part 40) : 1991	75	200	19.2
10	Chloramines (as Cl ₂)	mg/l	18 3025 (Part 26) : 2021	4.0	No relaxation	BDL (DL+0.1)
11	Free Residual Chlorine	mg/l	15 3025 (Part 26) : 2021	0.2	196 reactions	BDL (DL - 0.1)
12	Fluoride (as F)	mg/l	1S 3025 (Part 60) : 2008	1.0	1.5	BDL (DL - 0.1)
13	Magnesium (as Mg)	mg/l	15 3025 (Part 46) : 1994	30	100	8.74
14	Nitrate (as NO ₁)	mg/l	APHA method 23rd edition: 2017	45	No relaxation	8.74 BDL (DL-2)
15	Odour		15 3025 (Part 5) : 2018	Agreeable	Agreeable	Amarahla
16	pH		1S 3025 (Part 11) : 2022	6.5 to 8.5	No relaxation	Agreeable 7.98 at 25°C
17	Phenolic compounds (as C4H4OH)	mg/l	18 3025 (Part 43) : 2022	0.001	0.002	BDL (DL + 0.001)
18	Sulphate (as SO ₄)	mu/l	IS 3025 (Part 24) : 2022	200	400	6.74
19	Taste	-	15 3025 (Part 8) : 1984	Agreeable	Agreeable	
20	Total dissolved solids	mg/l	15 3025 (Part 16) : 2023	500	2000	Agreeable 192
21	Turbidity	NTU	1S 3025 : (Part 10): 2023	1	5	and the second se
22	Total hardness (as CaCO ₃)	ma/l	15 3025 (Part 21) : 2009	200	600	BDL (DL - 0.1) 84
23	Sulphide (as H ₂ S)	mg/l	IS 3025 (Part 29) : 2022	0.05	No relaxation	
24	Mineral Oil	mg/l	ANtr/7.2/RES/06	1	No relaxation	BDL (DL - 0.03) BDL (DL - 0.001)

Please refer last Page for Note and Remarks.

Verified By Snehal Raut

Snehal Raut Technical Manager

Pradnya Pillewan Dy Technical Manager

Authorized Signatories

Pooja Kather

Technies Manager

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

Thank you for institling 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 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 Report No.: ALPL/29062024/2-19		Dated 29.06.2024			Page 2 of 5
Issued To : M/s Hindalco Industries Limited Tatijharia, Post Jamira, Tebsil Samri(Kusmi), District: Balrampur (C.G)	Sample Inward No. Inward Date Reference	ALPL/21062024/ 21.06.2024 13562310264; 17.		Analysis Start Analysis End Sample Category	25.06.2024 29.06.2024 Water
Sample Name Water	Sample Particulars / GW-1	Details	Purpose of analy Drinking		Received
Sample Collected B Anacon representative Mr. A	tul Sapate	Sampling Date: Sampling Time:	16.06.2024 11:00 AM	Sampling Piprapat N	Location Mining
Tests required Arsenic, Aluminium, Baria Silver, Total Chromium, Zine, Polychlorin	ated hiphenyls	ium, Iron, Lead, Ma	nganése, Mercury, I	Molybdenum, Nickel	, Selenium,

S.N.	Test Parameter	Measurement Unit	Test Method	Require 1S 105 (Drinking Wat Including Ac	Test Result					
				Acceptable Limit	Permissible Limit #					
п	Chemical Testing 2. Residues In Water									
25	Arsenic (as As)	mg/I	1S 3025 (Part 37): 2022	10.0	No relaxation	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	No relaxation	BDL (DL+0.02)				
28	Boron (as B)	mg3	IS 3025 (Part 2) : 2019	0.5	2.4	BDL (DL-0.02)				
29	Copper (as Cu)	mg/l	IS 3025 (Part 2) : 2019	0.05	1.5	BDL (DL-0.02)				
30	Cadmium (as Cd)	mg/l	IS 3025 (Part 2) : 2019	0.003	No relaxation	BDL (DL - 0.002				
31	Iron (as Fe)	mg/l	1S 3025 (Part 2) : 2019	1.0	No relaxation	0.13				
32	Lead (as Ph)	mg/1	IS 3025 (Part 2) : 2019	0.01	No relaxation	BDL (DL - 0.01)				
33	Mangabese (as Mn)	mg/i	IS 3025 (Part 2) : 2019	0.1	0.3	BDL (DL-0.02)				
34	Mercury (as Hg)	mg/l	1S 3025 (Part 48): 1994	0.001	No relaxation	BDL (DL - 0.001)				
35	Molybdenum (as Mo)	mg/I	IS 3025 (Part 2) : 2019	0.07	No relaxation	BDL (DL - 0.02)				
36	Nickel (as Ni)	mg/1	IS 3025 (Part 2) : 2019	0.02	No relaxation	BDL (DL - 0.01)				
37	Selenium (as Se)	mg/l	IS 3025 (Part 56) : 2003	0.01	No relaxation	BDL (DL-0.01)				
38	Silver (as Ag)	ng/l	IS 13428 (Annex J): 2005	0.1	No relaxation	BDL (DL-0.01)				
39	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2) : 2019	0.05	No relaxation	BDL (DL - 0.02)				
40	Zinc (as Zn)	mg/l	IS 3025 (Part 2) : 2019	5	15	0.05				
11	2. Residues In Water	10 10 10 10 10 10 10 10 10 10 10 10 10 1								
41	Polychlorinated biphenyls									
	2,2',5-trichlorobipheny1	Pgq	ANte/7.2/RES/04: 2018			BDL (DL - 0.03)				
1.3	2.4.4'-trichlorobiphenyl	μg/1	ANtr/7.2/RES/04: 2018	1		BDL (DL - 0.03)				
	2,2',5,5'-tetrachlorobiphenyl	µg/l	ANtr/7.2/RES/04: 2018	1		BDL (DL - 0.03)				
	2,2',4.5,5'-pentachlorobiphenyl	µg/l	ANtr/7.2/RES/04: 2018	0.5	Manufacture 1	BDL (DL - 0.03)				
	2.2.3.4,4',5'-hexachlorobiphenyl	pg/l	ANtr/7.2/RES/04: 2018	0.5	No relaxation	BDL (DL - 0.03)				
	2,2',4,4',5,5'-hexachlorobiphenyl	µg/l	AN9/7.2/RES/04: 2018			BDL (DL 0.01)				
	2.2',3,4,4',5,5'- heptachlorobiphenyl	нg/1	ANn/7.2/RES/04: 2018			BDL (DL - 0.03)				

Please refer last Page for Note and Remarks. Verified By

Pradnya Pillewan Dy Technical Manager

Nidhi Dubey Dy Technical Manager

Authorized Signatory

Jaur

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



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Test Report

Test Report No.: ALPL/2906202	and the second se	Dated 29.06.2024			Page 3 of 5
Issued To : M/s Hindalco Industries Lim Tatijharia, Post Jamira, Tehsil Samri(Kusmi), District: Balrampur (C.G)	Sample Inward 5 ited Inward Date Reference	 ALPL/21062024/ 21.06.2024 13562310264; 17. 	ALC: NO.	Analysis Start Analysis End Sample Category	25.06.2024 29.06.2024 Water
Sample Name Water	Sample Particule GW-1		Purpose of analy Drinking	2015 C	Received
Sample Collected By Anacon representative Mr. Atal Sapate		Sampling Date: Sampling Time:	16.06.2024 11:00 AM	Sampling Location Piprapat Nr. Mining	
Tests required , Polynacicar arom	atic hydrocarbons. Trihalome	ethanes			

TEST RESULTS

Requirement as per IS 10500 : 2012 Test Result Measurement (Drinking Water Specifications) S.N. **Test Parameter** Test Method Unit Including Amendment No. 4 Acceptable Permissible Limit Limit # 11 2. Residues In Water Polynuclear aromatic 42 hydrocarbons Naphthalene ANtr/7.2/RES/03: 2018 $\mu g/l$ BDL (DL-0.03) Acenaphthylene $\mu g/l$ ANtr/7.2/RES/03: 2018 BDL (DL - 0.03) Acenaphthene ANtr/7.2/RES/03: 2018 pg/l BDL (DL - 0.03) Fluorene AN#/7.2/RES/03: 2018 µg/l BDL (DL - 0.03) Anihracene ANtr/7.2/RES/03: 2018 µg/I BDL (DL - 0.03) Phenanthrene ANur7.2/RES/03: 2018 µg/l BDL (DL-0.03) Flooranthene µg/l ANtr/7.2/RES/03: 2018 BDL (DL - 0.03) Pyrene ANitr/T.2/RES/03: 2018 aig/I BDL (DL - 0.03) 0.1 No relaxation Benzo(a)anthracene ANID 7.2/RES/03: 2018 µg/1 BDL (DL-0.03) Chrysene µg/1 ANtr/7.2/RES/03: 2018 BDL (DL-0.03) Benzo(a)pyrene ANit/7.2/RES/03: 2018 µg/1 BDL (DL - 0.03) Benzo(b)fluoranthene ANtr/7.2/RES/03: 2018 pg/I BDL (DL-0.03) Benzo(k)fluoranthene ANtr/7.2/RES/03: 2018 µg/I BDL (DL - 0.03) Indeno(123.cd)pyrene ANtr/7.2/RES/03: 2018 pp/l BDL (DL-0.03) Dibenzo(a,h)anthracene ANtr/7.2/RES/03: 2018 µg/l BDL (DL - 0.03) Benzu(ghi)perylene ANtr/7.2/RES/03: 2018 µg/I BOL (DL -0.03) 43 Trihalomethanes á Bromoform mg/l 0.1 No relaxation BDL (DL -0.05) ii. Dibromochloeomethane mg/t 0.1No relaxation BDL (DL -0.05) ANtr/7.2/RES/05: 2018 iii. Bromodichloromethane mg/l 0.06 No relaxation BDL (DL -0.05) iv Chlaroform ing/l 0.2 No relaxation BDL (DL -0.05)

Please refer last Page for Note and Remarks.

Verified By

Pradrya Pillewan Dy Technical Manager

Authorized Signatory

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



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Test Report

Test Report No.: ALPL/29062024/2-19		Duted 29.06.2024		the second s	Page 4 of 5
Issued To : M/s Hindalco Industries Limited Tatijharia, Post Jamira, Tehsil Samri(Kusmi), District: Balrampur (C.G)	Sample Inward No. Inward Date Reference	ALPL/21062024/8 21.06.2024 13562310264; 17./	05.2024	Analysis Start Analysis End Sample Category	25.06.2024 29.06.2024 Water
Sample Name Water	Sample Particulars / GW+1	Details	Purpose of analysi Drinking		Received
Sample Collected B Anacon representative Mr. A	tul Sapate	Sampling Date: Sampling Time:	16.06.2024 11:00 AM	Sampling I Piprapat Nr	ocation
Tests required - Pesticide Residues Organi	chlorine			- Andrea (a)	

5.N.	Test Parameter	Measurement Unit	Test Method	t Method (Drinking Water Specifications) Including Amendment No. 4		00 : 2012 rr Specifications) endment No. 4	Test Result
44	Pesticide Residues Organochlorine			Ac	ceptable Limit	Permissible Limit #	
1	Alpha-HCH	1	A MILLION OF THE PROPERTY AND	Nile III	1 0.01	1	
× .	Beta HCH	<u>µg/1</u>	ANte/7.2/RES/01: .	and strength of	0.01	No relaxation	BDL (DL - 0.0)
	and the second se	µg/l	ANtr/7.2/RES/01: 1	and the second second	0.04	No relaxation	BDL (DL - 0.03
-	Delta- HCH	µg/l	ANtr/7.2/RES/01: 1		0.04	No relaxation	BDL (DL - 0.03
2	Gamma - HCH (Lindane)	µg/l	ANtr/7.2/RES/01:1	and an other data	2	No relaxation	BDL (DL - 0.03
3	Alachlor	µg/1	ANtr/7.2/RES/01:1	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
	Dieldrin	µg/1	ANte/7.2/RES/01:3	2018	0.03	No relaxation	BDL (DL - 0.03
.5	Butachlor	pig/1	ANtr/7.2/RES/01:1	2018	125	No relaxation	BDL (DL - 0.03
		µg/I	ANto7.2/RES/01:2	2018			BDL (DL - 0.03
		pg/1	AND/7.2/RES/01: 3	2018			BDL (DL - 0.03
6	p.p'+DDE, o.p'-DDE, p.p'-DDD,	μg/1	ANtr/7_2/RES/01:1	2018			BDI (DI - 0.03
	o.p'-DDD, o.p'- DDT, p.p'- DDT	µg/l	ANtr/7.2/RES/01: 1	2018	1 1	No relaxation	BDL (DL - 0.03
	Children and the construction of the	µg/l	ANtr/7.2/RES/01:1	2018	1		BDL (DL - 0.03
		HB/I	AN0/7.2/RES/01:3	2018			BDL (DL - 0.03
7	Atrazine	Pag/I	ANtr/7.2/RES/01: 1	2018	2	No relaxation	BDL (DL - 0.03
8	2.4-Dichlorophenoxyacetic acid	µg/l	ANtr/7.2/RES/02 ;	2018	30	No relaxation	BDL (DL - 0.03
9	Endosalphan					1	19932 (1912 - 0.00)
	Alpha-Endosulphan Beta-Endosulphan	μg/l	ANto7.2/RES/01: 2	2018	0.4	No relaxation	BDL (DL + 0.03
-	Endosulphan sulphate						

Please refer last Page for Note and Remarks.

Verified By

Pradnya Pillewan Dy Technical Manager

Authorized Signatory gav

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



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Test Report

Test Report No.: ALPL/29062024/2-19		Dated 29.06.2024		Page 5 of	4
Issued To : M/s Hindalco Industries Limited Tatijharia, Post Jamira, Tehsil Samri(Kusmi), District: Balrampur (C.G)	Sample Inward No. Inward Date Reference	ALPL/21062024/3 21.06.2024 13562310264; 17.	05.2024	Analysis Start Analysis End Sample Category	25.06.2024 29.06.2024 Water
Sample Name Water	Sample Particulars / GW-1	Details	Purpose of analys Drinking	is Quantity 51	
Sample Collected E Anacon representative Mr. A	tul Sapate	Sampling Date: Sampling Time:	16.06.2024 11:00 AM	Sampling L Pipraput Nr.	eation
Tests required - Pesticide Residues Organ	and the second se	T DESEIL TE			

S.N.	Test Parameter Measurement Unit		Test Method	Requ IS (Drinking V Including	Test Result	
				Acceptable	Permissible Limit#	
45	Pesticide Residues Organophi	xphorus				
10	Isoproturon	pgg-1	ANu/7.2/RES/02: 2018	9	No relaxation	BDL (DL - 0.03)
11	Monocrotophos	µg/l	ANtr/7.2/RES/01: 2018	1	No relaxation	BDL (DL - 0.03)
12	Parathion methyl	µg/l	ANu/7.2/RE5/01:2018	0.3	No relaxation	BDL (DL - 11.03)
14.77	Paraoxon methyl	jage/1	ANtt/7.2/RES/01: 2018			BDL (DL - 0.03)
13	Malathion	pg/i	AN#/7.2/RES/01: 2018	190	No relaxation	BDL (DL - 0.03)
	Malaoxon	pg/i	ANtr/7.2/RES/01: 2018	-		BDL (DL + 0.03)
14	Ethion	p.p.a	ANtr/7.2/RES/01: 2018	3	No relaxation	BDL (DL - 0.03)
15	Chlorpyrifos	μµ/t	ANtr/7.2/RES/01: 2018	30	No relaxation	BDL (DL + 0.03)
16	Phorate				(to realization	DU12 (DL+ 0.05
	Phorate-sulfone	µg/1	ANir/7.2/RES/01: 2018	2	No relaxation	BDL (DL = 0.03)
	Phorate-sulfoxide	1.41.1			No reaxabon	DEAL (EVE + 0.03)

NOTE: • Please see vancmark "Original Test Report" to confirm the authenticity of this report. • Results shall be referred to rested sample(5) and applicable to trained parameters only. • Test report shall not be reproduced except in fail without price weither approval of Assess Labs. • Labsing of Assess Labsing of

REMARKS: As requested by the client, sample was tasted 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

Test Report No.: ALPL/29062024/2-20		Dated 29.06.2024		Page 1	of 5
Issued To : M/s Hindalco Industries Limited Tatijharia, Post Jamira, Tehsil Samri(Kusmi), District: Balrampur (C.G)	Sample Inward No. Inward Date Reference Inv. No.	ALPL/21062024/7 21.06.2024 13562310264; 17, -		Analysis Start Analysis End Sample Category	25.06.2024 29.06.2024
Sample Name Water	Sample Particulars / GW-2	Details	Purpose of analy Drinking	sis Quantit	y Received
Sample Collected By Anacon representative Mr. Atuf Sapute Tests required Coliform, Excherichia coli, Alkalinity, Ammonia.		Sampling Date: Sampling Time:	16.06.2024 Sampling Loc 12:15 PM BKB Care		Location

active agents, Colour, Cyanide, Chloride, Calcium, Chloramines, Free residual chlorine, Fluoride, Magnesium, Nitrate, Odoar, pH, Phenolic compounds, Sulphate, Sulphide, Taste, Total dissolved solids, Turbidity, Total hardness, Mineral Oil TEST DESULTS.

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 #	
1	Biological Testing I. Water				1	
1	Coliform	Per 100 ml	15 15185 : 2016	Absent	Absent	Absent
2	Escherichia coli	Per 100 ml	JS 15185 : 2016	Absent	Absent	Absent
11	Chemical Testing 1. Water				Turrent	- Address
3	Total Alkalinity (as Calcium Carbonate)	mg/l	IS 3025 (Part 23) : 1986	200	600	75
4	Ammonia (as N)	thg/l	1S 3025 (Part 34) : 1988	0.5	No relaxation	BDL (DL - 0.1)
5	Anionic Detergents (as MBAS)	mg/I	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 (ns CN)	Egm	IS 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	46.43
9	Calcium (as Ca)	mg/l	IS 3025 (Part 40) : 1991	75	200	21.6
10	Chloramines (as Cl ₂)	mg/l	15 3025 (Part 26) : 2021	4.0	No relaxation	BDL (DL + 0.1)
11	Free Residual Chlorine	mg/l	15 3025 (Part 26) : 2021	0.2	reo restantion	BDL (DL = 0.1)
12	Fluoride (as F)	mg/l	1S 3025 (Part 60) : 2008	1.0	1.5	and the second sec
13	Magnesium (as Mg)	mg/l	IS 3025 (Part 46) : 1994	30	1.0	BDL (DL - 0.1) 9.23
14	Nitrate (as NO ₃)	mg/l	APHA method 23rd edition: 2017	45	No relaxation	9.24 BDL (DL - 2)
15	Odour		IS 3025 (Part 5) : 2018	Agreeable	Agreeable	Agreeable
16	pH		IS 3025 (Part 11) : 2022	6.5 10 8.5	No relaxation	8.34 at 25°C
17	Phenolic compounds (as CaHaOH)	mg/l	IS 3025 (Part 43) : 2022	0.001	0.002	BDL (DL + 0.001)
18	Sulphate (as SO ₄)	mg/l	15 3025 (Part 24) : 2022	200	400	8.64
19	Taste	-	1S 3025 (Part 8) : 1984	Agreeable	Agreeable	Agreeable
20	Total dissolved solids	mg/l	IS 3025 (Part 16) : 2023	500	2000	Agreeable 176
21	Turbidity	NTU	1S 3025 : (Part 10): 2023	1	4000	BDL (DL = 0,1)
22	Total hardness (as CaCO ₁)	mg/l	1S 3025 (Part 21) : 2009	200	600	13LM. (LH 0.1) 92
23	Sulphide (as H ₂ S)	mg/l	IS 3025 (Part 29) : 2022	0.05	No relaxation	
24	Mineral Oil	mg/l	ANtr/7.2/RES/06	1	No relaxation	BDL (DL - 0.03) BDL (DL - 0.001)

Please refer last Page for Note and Remarks.

Verified By 101 ag

Snehal Raut Technical Manager

Pradnyn Pillewan Dy Technical Manager

Puoia Technical Manager

Authorized Signatories

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



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Test Report

Test Report No.: ALPL/29062024 Issued To :	Sample Inward No.	Duted 29.06.2024 ALPL/21062024/		Analysis Start	Page 2 of 5 25.06 2024
M/s Hindalco Industries Limit Tatijharia, Post Jamira, Tehsil Samri(Kusmi), District: Balrampur (C.G)		21.06.2024 13562310264; 17	05.2024	Analysis End Sample Category	29.06.2024 Water
Sample Name Water	Sample Particulars GW-2	/ Details	Purpose of analysi Drinking	201 0.00 0.00 0.000	Received
Sample Coll Anacon representative		Sampling Date: Sampling Time:	16.06.2024 12:15 PM	Sampling I	ocation

Silver, Total Chromium, Zinc, Polychlorinated biphenyls TEST RESULTS

s.N.	Test Parameter Measurem Unit		Test Method	Require IS 105 (Drinking Wat Including Au	Test Result	
				Acceptable	Permissible Limit #	
	Chemical Testing 2. Residues In Water	N	1.0			
25	Arsenic (as As)	mg/l	IS 3025 (Part 37) : 2022	0.01	No relaxation	BDL (DL - 0.01)
26	Ahuminisam (as Al)	mg/l	IS 3025 (Part 2) : 2019	0.03	0.2	BDL (DL-0.02)
27	Barium (as Ba)	mg/l	1S 3025 (Part 2) : 2019	0.7	No relaxation	BDL (DL-0.02)
28	Boron (as B)	mg/l	IS 3025 (Part 2) : 2019	0.5	2.4	BDL (DL-0.02)
29	Copper (as Cu)	mg/I	1S 3025 (Part 2) : 2019	0.05	1.5	BDL (DL-0.02)
30	Cadmium (as Cd)	mg/l	IS 3025 (Part 2) : 2019	0.003	No relaxation	BDL (DL - 0.002)
31	Iron (as Fe)	mg/l	IS 3025 (Part 2): 2019	1.0	No relaxation	0.97
32	Lead (as Pb)	mg/l	1S 3025 (Part 2) : 2019	0.01	No relaxation	BDL (DL = 0.01)
33	Manganese (as Mn)	mg/l	15 3025 (Part 2) : 2019	0.1	0.1	BDL (DL=0.01) BDL (DL=0.02)
34	Mercury (as Hg)	mg/l	IS 3025 (Part 48) : 1994	0.001	No relaxation	BDL (DL - 0.001)
35	Molybdenum (as Mo)	mg/l	18 3025 (Part 2) : 2019	0.07	No relaxation	BDL (DL - 0.02)
36	Nickel (as Ni)	mg/l	IS 3025 (Part 2) : 2019	0.02	No relaxation	BDL (DL = 0.01)
37	Selenium (as Se)	mg/l	IS 3025 (Part 56) : 2003	0.01	No relaxation	BDL (DL-0.01)
38	Silver (as Ag)	mg/l	IS 13428 (Annex J): 2005	0.1	No relaxation	BDL (DL-0.01)
39	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2) : 2019	0.05	No relaxation	BDL (DL - 0.02)
40	Zine (as Zn)	mg/l	IS 3025 (Part 2) : 2019	5	15	0.14
11	2. Residues In Water			<i>v</i> .	12	0.14
41	Polychlorinated biphenyls		and the second se			
	2.2',5-trichlorobiphenyl	μg/l	ANtr/7.2/RES/04: 2018		1	BDL (DL - 0.03)
- 1	2.4,4'-trichlorobiphenyl	pg/l	ANtr/7.2/RES/04: 2018		8	BDL (DL - 0.03)
	2,2',5.5'-tetrachlorobiphenyl	Hg4	ANtr/7.2/RES/04: 2018	1		BDL (DL - 0.03)
	2.2',4,5.5-pentachlorobiphenyl	Jug/I	ANtr/7.2/RES/04: 2018	Tester 1	Contract Contract	BDL (DL - 0.03)
	2.2',3.4.4'.5'-hexachlorobiphenyl	µg/1	ANtr/7.2/RES/04: 2018	0.5	No relaxation	and the second se
	2.2.4.4.5.5-bexachlorobiphenyl	μg/l	ANtt/7.2/RES/04: 2018		1	BDL (DL -0.03)
	2.2.3.4.4.5.5- heptachlorobiphenyl	μg/1	ANtr/7.2/RES/04: 2018			BDL (DL - 0.03) BDL (DL - 0.03)

Please refer last Page for Note and Remarks.

Verified By

Pradnya Pillewan Dy Technical Manager

Nidhi Dubey Dy Technical Manager Authorized Signatory

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



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Test Report

Test Report No.: ALPL/29062024/2	-20	Dated 29.06.2024			Page 3 of 5
Issued To : M/s Hindaleo Industries Limited Tatijharia, Post Jamira, Tehsil Samri(Kusmi), District: Balrampur (C.G)	Sample Inward No. Inward Date Reference	ALPL/21062024/ 21.06.2024 13562310264; 17.	0.000.000.0000.000	Analysis Start Analysis End Sample Category	25.06.2024 29.06.2024 Water
Sample Name Water	Sample Particulars / GW-2	Details	Purpose of analys Drinking		Received
Sample Collect Anacon representative M		Sampling Date: Sampling Time:	16.06.2024 12:15 PM	Sampling I BKB C	
Tests required , Polynuclear aromatic	hydrocarbons, Trihalometha				

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit#	
11	2. Residues In Water				AV63242674	
42	Polynuclear aromatic bydrocarbons					
	Naphthalene	μg/1	ANtr/7.2/RES/03: 2018	1		BDI (DI -0.03)
	Acenaphthylene	µg/1	ANitr/7.2/RES/03: 2018			BDL (DL - 0.03)
	Acenaphthene	Pgq	ANtr/7.2/RES/03: 2018			BDL (DL - 0.03)
	Fluorene	µg/1	ANtr/7.2/RES/03: 2018			BDL (DL - 0.03)
	Anthracene	μg/1	ANn/7.2/RES/03: 2018			BDL (DL - 0.03)
	Phenanthrene	µg/l	ANtr/7.2/RES/03: 2018	1 1		BDL (DL-0.03
	Fluoranthene	μg/1	ANto7.2/RES/03: 2018	0,1		BDL (DL - 0.03
	Pyrene	Fgq	ANtr/7.2/RES/03:2018		No relaxation	BDL (DL-0.03
	Benzo(a)anthracene	pg/l	ANtr/7.2/RES/03: 2018		Noreation	BDL (DL - 0.03
	Chrysene	µg/l	ANtr/7.2/RES/03: 2018	1 1		BDL (DL - 0.03
	Benzo(a)pyrene	µg/T	ANtr/7.2/RES/03: 2018			BDL (DL - 0.03
	Benzo(b)fluoranthene	µg/1	ANtr/7.2/RES/03: 2018			BDL (DL - 0.03
	Benzo(k)fluoranthene	µg/l	ANtr/7.2/RES/03: 2018	1		BDL (DL -0.03
	Indeno(123.cd)pyrene	pug/l	ANte/7.2/RES/03: 2018	1		BDL (DL-0.03
	Dibenzo(a,h)anthracene	μg/l	ANtr/7.2/RES/03: 2018	1		BDL (DL - 0.03
	Benzo(ghi)perylene	µg/1	ANtr/7.2/RES/03: 2018	1		BDL (DL - 0.03
43	Trihalomethanes			1	Sector and the sector	
1	Bromoform	mg/l		0.1	No relaxation	BDL (DL -0.05)
- ŭ	Dibromochloromethane	mg/l	AND TREE OF ADD	0.1	No relaxation	BDL (DL +0.05)
苷	Bromodichloromethane	mg/1	ANto7.2/RES/05: 2018	0.06	No relaxation	BDL (DL -0.05)
iv.	Chiloroform	mg/l		0.2	No relaxation	HDI. (DL -0.05)

Please refer last Page for Note and Remarks.

Verified By

Pradnya Pillewan Dy Technical Manager

Authorized Signatory

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



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Test Report

Test Report No.: ALPL/29062024/2	1-20	Dated 29.06.2024			Page 4 of 5
Issued To : M/s Hindalco Industries Limiter Tatijharia, Post Jamira, Tehsil Samri(Kusmi), District: Balrampur (C.G)	Sample Inward No. Inward Date Reference	ALPL/21062024/ 21.06.2024 13562310264; 17.	ACTIVATION CONTRACTOR OF	Analysis Start Analysis End Sample Category	25.06.2024 29.06.2024 Water
Sample Name Water	Sample Particulars / GW-2	Details	Purpose of analys Drinking		Received
Sample Collec Anacon representative	Mr. Atul Sapate	Sampling Date: Sampling Time:	16.05.2024 12:15 PM	Sampling I BKB C	ocation
Tests required - Pesticide Residues C	Organochlorine	in the second			
	TES	T RESULTS			

5.N.	Test Parameter	Test Parameter Measurement Unit Test Method Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4		00 : 2012 er Specifications) endment No. 4	Test Result		
-44	Pesticide Residues Organochlorine		I	A	cceptable Limit	Permissible Limit #	
	Alpha-HCH		121				
1		µg/l	ANtr/7.2/RES/01:			No relaxation	BDL (DL + 0.01)
	Beta HCH	µg/l	ANte/7.2/RES/01:	All and a second se	Contraction of the local division of the loc	No relaxation	BDL (DL - 0.03)
-	Delta- HCH	μg/1	ANtr/7.2/RES/01:			No relaxation	BDL (DL = 0.03)
2	Gamma - HCH (Lindane)	pg/l	ANtr/7.2/RES/01:	No. of Concession, Name		No relaxation	BDL (DL - 0.03)
3	Alachlor	µg/l	ANtr/7.2/RES/01:	2018	20	No relaxation	BDL (DL = 0.03)
4	Aldrin	jug/l	ANto7.2/RES/01;	2018	0.03	No relaxation	BDL (DL - 0.03)
	Dieldrin	µg/l	ANtr/7.2/RES/01:	2018	0.03	No relaxation	BDL (DL - 0.03)
5	Butachlor	pg/l	ANtr/7.2/RES/01:	2018	125	No relaxation	BDL (DL - 0.03)
		pg/l	ANu/7.2/RES/01:	2018			BDL (DL - 0.03)
		µg/l	ANtr/7.2/RES/01:	2018	18		BDL (DL - 0.03)
6	p.p'-DDE, o.p'-DDE, p.p'-DDD,	µg/l	ANtr/7.2/RES/01:	2018		No relaxation	BDL (DL - 0.03)
	o.p'-DDD, o.p'-DDT, p.p'-DDT	P.gq	ANtr/7.2/RES/01:	2018	1		BDL (DL - 0.03)
		μg/1	ANtr/7.2/RES/01:	2018			BDL (DL - 0.03)
-		µg/l	ANt/7.2/RES/01;	2018			BDL (DL - 0.03)
7	Atrazine	Hg/l	ANto7.2/RES/01	ويتعار والمراجع المراجع	and the second se	No relaxation	BDL (DL - 0.03)
8	2.4-Dichlorophenoxyacetic acid	pig/3	ANII/7.2/RES/02:		and a second	No relaxation	BDL (DL - 0.03)
9	Endosulphan	10.00		2010		1 (so reactions)	DIAL (DL = 0.03)
	Alpha-Endosulphan						
	Beta-Endosulphan	μg/1	ANtr/7.2/RES/01:	2018	0.4	No relaxation	BDL (DL - 0.03)
	Endosulphan sulphate	17.00 L	ate on the first of the		112.0		ment (ent - a.a.)

Please refer last Page for Note and Remarks.

Verified By

Pradnya Pillewan

Dy Technical Manager

Authorized Signatory

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



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Test Report

Page 5 of 5 6-2 Analysis Start 25.06.202 Analysis End 29.06.202
Sample Category Water
f analysis Quantity Received
4 Sampling Location
02 M

S.N.	Test Parameter Measurement Unit		Test Method	1S (Drinking V	irement as per 10500 : 2012 Vater Specifications) Amendment No. 4	Test Result
				Acceptable	Permissible Limit #	
45	Pesticide Residues Organophi	mphorus	and the second		· · · · · · · · · · · · · · · · · · ·	
10	Isoproturun	µg/l	ANtr/7.2/RES/02: 2018	9	No relaxation	BDL (DL + 0.03)
11	Monacrotophos	µg/1	ANtt/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/i	ANtr/7.2/RES/01: 2018	-		BDL (DL - 0.03)
13	Malathion	µg/l	ANtr/7.2/RES/01: 2018	190	No relaxation	BDL (DL - 0.03)
	Malaoxon	µg/1	ANtr/7.2/RES/01: 2018	+		BDI (DI - 0.03)
14	Ethion	µg/l	ANtr/7.2/RES/01: 2018	3	No relaxation	BDL (DL - 0.03)
15	Chlorpyrifos	µg/1	ANtr/7.2/RES/01: 2018	30	No relaxation	BDL (DL - 0.03)
16	Phorate					- CHARLE - 11.05
	Phorate-sulfone	jug/t	ANtr/7.2/RES/01: 2018	2	No relaxation	BDL (DL - 0.03)
	Phorate-sulfoxide	1.00	New York Contraction of the D		to reason	mar. (131 - 0.03)

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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.

END OF REPORT-

Verified By

Praduya Pillewan Dy Technical Manager

Authorized Signatory

Jain

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



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Test Report

Test Report No.: ALPL/30092024 Issued To : M/s Hindalco Industries Limited Tatijharia, Post Jamira, Tehsil Samri(Kusmi), District: Bal	I	Sample Inv Inward Dat Reference	e 23/09/2024	64; 17.05.2024	Analysis Start Analysis End Sample Category	Page 1 of 5 23/09/2024 30/09/2024 Water
Sample Name Water	Sampl	e Particulars GW-1	/ Details	Purpose of analys Drinking	is Quantit	y Received
Sampling d Anacon representative Mr. 1 Tests required Coliform, Escherici		ogađe	Sampling Date: Sampling Time:	21/09/2024 2.20 pm	Sampling Piprapat N	

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

			TEST RESULTS			
S.N.	Test Parameter	Measurement Unit	Test Method	IS 105 (Drinking Wat Including At	ment as per 500 : 2012 ter Specifications) mendment No. 4	Test Result
				Acceptable	Permissible Limit #	
1	Discipline : Biolo	gical Gr	oup : Water Mater	ial or Product test	ed: Drinking water	
1	Coliform	Per 100 ml	IS 15185	Absent	Absent	Absent
2	Escherichia coli	Per 100 ml	IS 15185	Absent	Absent	Absent
п	Discipline : Cher	nical Gro	up : Water Materi	ial or Product tests	ed: Drinking water	
3	Total Alkalinity (as Calcium Carbonate)	mg/l	18 3025 (Part 23)	200	600	181.64
4	Ammonia (as N)	mg/T	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	BLQ (LOQ-0.01)
6	Colour	Hazen units	IS 3025 (Part 4) Clause 4	5	15	1
7	Cyanide (as CN)	mg/l	IS 3025 (Part 27/Sec 1) Clause 5	0.05	No relaxation	BLQ (LOQ-0.005)
8	Chloride (as Cl)	mg/T	1S 3025 (Part 32) Clause 2	250	1000	37.46
9	Calcium (as Ca)	mg/l	IS 3025 (Part 40) Clause 5	75	200	51.68
10	Chloramines (as Cl ₂)	mg/l	IS 3025 (Part 26)	4.0	No relaxation	BLO (LOO-0.1)
11	Free Residual Chlorine	mg/l	1S 3025 (Part 26) Clause 7	0.2	1	BLQ (LOO-0.1)
12	Fluoride (as F)	mg/l	1S 3025 (Part 60) Clause 6	1.0	1.5	0.24
13	Magnesium (as Mg)	mg/l	1S 3025 (Part 46) Clause 6	30	100	12.26
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)	Agrecable	Agreeable	Agrecable
16	pH		IS 3025 (Part 11)	6.5 to 8.5	No relaxation	7.97 at 25°C
17	Phenolic compounds (as CaHoOH)	mg/l	IS 3025 (Part 43/Sec 1) Clause 6	0.001	0.002	BLQ (LOQ-0.001)
18	Sulphate (as SO ₄)	mg/I	IS 3025 (Part 24/ Sec1) Clause 5	200	400	18.43
19	Taste		1S 3025 (Part 8)	Agreeable	Agreeable	Agrecable
20	Total dissolved solids	mg/l	IS 3025 (Part 16)	500	2000	452
21	Turbidity	NTU	IS 3025 : (Part 10)	1	5	1
22	Total hardness (as CaCO ₃)	mg/l	1S 3025 (Part 21) Clause 5	200	600	180
23	Sulphide (as H ₂ S)	mg/l	IS 3025 (Part 29)	0.05	No relaxation	BLQ (LOQ-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

111 Snehal Raut

Technical Manager

Pradnya Pillewan Dy Technical Manager

Pooja Kathane Technical Manager

Authorized Signatories Chinmay Chrway Deputy Quality Manager

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Test Report

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Test Report No.: ALPL/30092024/3-20 Issued To : M/s Hindalco Industries Limited Tatijharia, Post Jamira, Tehsil Samri(Kusmi),District: Balrampur (C.G)	Sample Inward No Inward Date Reference	Dated 30/09/2024 ALPL/23092024 EW-3/2-1 23/09/2024 13562310264; 17	MON-294-	Analysis Start Analysis End Sample Category	Page 2 of 5 23/09/2024 30/09/2024 Water
Sample Name Water	Sample Particulars GW-1	/ Details	Purpose of analysis Drinking	Quantity 51	
Sampling done by Anacon representative Mr. Dharmashe	el Bhiogade	Sampling Date: Sampling Time:	21/09/2024 2:20 pm	Sampling Piprapat N	
Tests required Arsenic, Aluminium, Barium Zinc, Polynuclear aromatic hydrocarbon (PA	, Boron, Copper, Cadr H), Polychlorinated bi		anganese, Mercury, Sele	nium, Total Chron	uium,

-			ILSI RESULTS	Require	ment as per	
S.N.	Test Parameter	Test Parameter Measurement Unit	Test Method	IS 105 (Drinking Wat Including At	Test Result	
				Acceptable	Permissible Limit #	
11	Discipline : Chemical	Group : Res	idues and contaminants in	water	Material or Product te	sted: Drinking water
25	Arsenic (as As)	mg/l	1S 3025 (Part 2)	0.01	No relaxation	BLQ (LOQ-0.01)
26	Aluminium (as Al)	ng/l	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	BLQ (LOQ-0.02)
28	Boron (as B)	mg/l	1S 3025 (Part 2)	0.5	2.4	BLQ (LOQ-0.02)
29	Copper (as Cu)	ing/l	IS 3025 (Part 2)	0.05	1.5	BLQ (1.0Q-0.02)
30	Cadmium (as Cd)	Figm	15 3025 (Part 2)	0.003	No relaxation	BLQ (LOQ-0.002)
31	Iron (as Fc)	rng/i	IS 3025 (Part 2)	1.0	No relaxation	0.26
32	Lead (as Pb)	mp/i	15 3025 (Part 2)	0.01	No relaxation	BLQ (LOQ-0.01)
33	Manganese (as Mn)	ngfi	IS 3025 (Part 2)	0.1	0.3	BLQ (LOQ-0.02)
34	Mercury (as Hg)	mg/l	Ann/7.2/Res.Inorg/01	0.001	No relaxation	BLQ (LOQ-0.001)
35	Selenium (as Se)	ngit	15 3025 (Part 56)	0.01	No relaxation	BLQ (LOQ-0.01)
36	Total Chromium (as Cr)	ng/t	1S 3025 (Part 2)	0.05	No relaxation	BLQ (LOQ-0.02)
37	Zinc (as Zn)	mg/l	15 3025 (Part 2)	5	15	BLQ (LOQ-0.02)
38	Polynuclear aromatic hydrocarbon (PAH)	μg/l	ANter7.2/RES/03	0.1	No relaxation	BLQ (LOQ-0.03)
11	Discipline : Chemical	Group : Res	idues contaminants in wat	er Material or	Product tested: Drink	ing water
39	Polychlorinated biphenyls			10 - 11 - 10 - 10 - 10 - 10 - 10 - 10 -	Contrast in operation	Contraction of the second s
	2.2'.5-trichlorobiphenyl	µg/I	ANte/7.2/RES/04			BLQ (LOQ-0.03)
	2.4.4'-trichlorobiphenyl	μ <u>μ</u> /1	ANtr/7.2/RES/04			BLQ (LOQ-0.03)
	2.2'.5.5'-tetrachlorobiphenyl	µg/l	ANtr/7.2/RES/04			BLQ (LOQ-0.03)
	2.2.4.5.5 -pentachlorobiphenyl	μg/1	ANtr/7.2/RES/04	0.5	No reluxation	BLQ (LOQ-0.03)
	2.2',3,4,4',5'-bexachlorobiphenyl	µg/l	ANtr/7.2/RES/04	0.5	NO FEIIXILION	BLQ (LOQ-0.03)
	2.2',4,4',5,5'-hexachlorobiphenyl	μg/l	ANtr/7.2/RES/04]		BLQ (LOQ-0.03)
	2,2',3,4,4',5,5'- heptachlorobiphenyl	µg/1	ANtr/7.2/RES/04			BLQ (LOQ-0.03)

D Please refer last Page for Note and Remarks.

Verified By Pradin a Pillewan

Deputy Technical Manager

Authorized Signatory

Chinmay Garway Deputy Quality Manager



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Test Report

Test Report No.: ALPL/30092024/3-20 Issued To :	Sample Inward No.	Dated 30/09/2024 ALPL/23092024/MON-294- EW-3/2-1		Analysis Start	Page 3 of 5 23/09/2024
M/s Hindalco Industries Limited Tatijharia, Post Jamira, Tehsil Samri(Kusmi),District: Balrampur (C.G)	Inward Date Reference	23/09/2024 13562310264; 17,05	2024	Analysis End Sample Category	30/09/2024 Water
Sample Name Water	Sample Particulars / GW-1	Details	Purpose of analys Drinking		Received Ltr
Sampling done by Anacon representative Mr. Dharmash	eel Bhiogade	Sampling Date: Sampling Time:	21/09/2024 2.20 pm	Sampling I Piprapat Nr	
Tests required , Polynuclear aromatic hydroc		es F RESULTS	and the second	an coloradore como	10700 APE

S.N.	Test Parameter	Measurement Unit	Test Method	IS 105 (Drinking Wa Including A	ment as per 600 : 2012 ter Specifications) mendment No. 4	Test Result
				Acceptable Limit	Permissible Limit #	
н	Discipline : Chemical	Group : Residu	es contaminants in water	Material or P	roduct tested: Drinkin	g water
40	Polynuclear aromatic hydrocarbons					
	Naphthalene	µg/l	ANtt/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/t	ANtr/7.2/RES/04	0.1		BLQ (LOQ-0.03)
- 18	Anthracene	μ <u>g</u> /1	ANtr/7.2/RES/04			BLQ (LOQ-0.03)
	Phenanthrene	µg/l	ANtr/7.2/RES/04			BLQ (LOQ-0.03)
	Fluoranthene	μg/l	ANtr/7.2/RES/04			BLQ (LOQ-0.03)
	Pyrene	μg/l	ANtr/7.2/RES/04		Second Second	BLQ (LOQ-0.03)
	Benzo(a)anthracene	μg/l	ANtr/7.2/RES/04	0.1	No relaxation	BLQ (LOQ-0.03)
	Chrysene	μg/l	ANtr/7.2/RES/04	1		BLQ (LOQ-0.03)
	Benzo(a)pyrene	Pgu	ANte/7.2/RES/04	1	1	BLQ (LOQ-0.03)
	Benzo(b)flooranthene	µg/l	ANto7.2/RES/04	1		BLQ (LOQ-0.03)
	Benzo(k)fluoranthene	f/gu	ANtr/7.2/RES/04	1		BLQ (LOQ-0.03)
	Indeno(123.od)pyrene	µg/i	ANto7.2/RES/04	1		BLQ (LOQ-0.03)
	Dibenzo(a,h)anthracene	µg/!	ANte/7.2/RES/04	1		BLQ (LOQ-0.03)
	Benzo(ghi)perylene	μg/1	ANtr/7.2/RES/04	1		BLQ (LOQ-0.03)
41	Trihalomethanes	the second	and the second	ŝ S		
i	Bromoform	mg/l		0.1	No relaxation	BLQ (LOQ-0.05)
ii .	Dibromochloromethane	mg/l	AND DECK	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-0.65)

Pirase 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/30092024/3-20		Dated 30/09/2024			Page 4 of 5
Issued To: M/s Hindalco Industries Limited Tatijharia, Post Jamira, Tehsil Samri(Kusmi), District: Balrampur (C.G)	Sample Inward No. Inward Date Reference	ALPL/23092024/? EW-3/2-1 23/09/2024 13562310264; 17/		Analysis Start Analysis End Sample Category	23/09/2024 30/09/2024 Water
Sample Name Water	Sample Particulars / I GW-1	Details	Purpose of analy Drinking	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	Received Lir
Sampling done by Anacon representative Mr. Dharmas	sheel Bhiogade	Sampling Date: Sampling Time:	21/09/2024 2.20 pm	Sampling Piprapat N	Location
Tests required - Pesticide Residues Organor	chlorine				
	TEST	RESULTS			

5.N.	Test Parameter	Measurement Unit	Test Method		IS 105 inking Wat	nent as per 00 : 2012 er Specifications) rendment No. 4	Test Result
					ble Limit	Permissible Limit#	
ш	Discipline : Chemical	Group : Resid	ues contaminants	in water	Material o	r Product tested: Drinking	water
42	Pesticide Residues Organochlorine	No. of the second se					
1	Alpha-HCH	µg/l	ANtr/7.2/RES/0	1	0.01	No relaxation	BLQ (LOQ-0.01)
	Beta HCH	μgΊ	ANto/7.2/RES/0	1	0.04	No relaxation	BLO (LOQ-0.03)
	Delta- HCH	μg/l	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	Alachlor	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)
1012	Dieldrin	цgji	ANtr/7.2/RES/0	1	0.03	No relaxation	BLO (LOO-0.03)
5	Butachlor	μg/1	ANtr/7.2/RES/0	1	125	No relaxation	BLO (LOQ-0.63)
		µg/1	ANtr/7.2/RES/0	1			BLO (LOO-0.03)
		µg/l	ANtr/7.2/RES/0	1			BLQ (LOQ-5.03)
б.	p,p'-DDE, o,p'-DDE, p,p'-DDD,	µg/l	ANtr/7.2/RES/0	1		1 C	BLQ (LOO-0.03)
	o,p'-DDD, o,p'- DDT, p,p'- DDT	µg/1	ANtr/7,2/RES/0	1	1	No relaxation	BLQ (LOQ-0.03)
		µg/l	ANtr/7,2/RES/0	1			BLQ (LOQ-0.03)
		µg/l	ANtr/7.2/RES/0				BLQ (LOQ-0.03)
7	Atrazîne	µg/1	ANtr/7.2/RES/0		2	No relaxation	BLQ (LOQ-0.03)
8	2,4-Dichlorophenoxyacetic acid	µg/l	ANtr/7.2/RES/0	1	30	No relaxation	BLO (LOO-0.03)
9	Endesulphan	the second second				1 Contention	and finite and
	Alpha-Endosulphan			-		T	
- 3	Beta-Endosulphan	Fgq	ANtr/7.2/RES/0		0.4	No relaxation	BLQ (LOQ-0.03)
1	Endosulphan sulphate	1997			10.0	(w) relaxation	1002 (1002-000)

Please refer last Page for Note and Remarks.

Verified B Pradnya Pillewan Deputy Technical Manager

Authorized Signatory (Q Ethinmay Garway Deputy Quality Manager



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Test Report

Test Report No.: ALPL/30092024/	3-20 Dated	1 30/09/2024	Western Street Street	Page 5 of	15
Issued To: M/s Hindalco Industries Limite Tatijharia, Post Jamira, Tehsil Samri(Kusmi), District: Balrampur (C.G)	Sample Inward !	No. ALPL/23092024/M8 EW-3/2-1 23/09/2024 13562310264; 17.05	.2024	Analysis Start Analysis End Sample Category	23/09/2024 30/09/2024 Water
Sample Name Water	Sample Particular GW-1	s / Details	Purpose of analys Drinking	10 July 2010 Control 10 State	Received
Sampling Anacon representative Mr.		Sampling Date: Sampling Time:	21/09/2024 2.20 pm	Sampling L Piprapat Nr.	
Tests required - Pesticide Residue	s Organophosphorus				
	т	EST RESULTS			

5.N.	Test Parameter	Measurement Unit Test Method	IS (Drinking V	Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4		
				Acceptable Limit	Permissible Limit #	1
IV	Discipline : Chemical	Group :	Residues contaminant	in water Mi	sterial or Product tested: I	Drinking water
43	Pesticide Residues Organophos	phorus	March 11 and an All Marcos	in the second	1	
10	Isoproturon	μg/1	ANtr/7.2/RES/02	9	No relaxation	BLQ (LOQ-0.03)
11	Monocrotophos	μg/1	ANtt/7.2/RES/01	1	No relaxation	BLQ (LOQ-0.03)
12	Parathion methyl	µg/1	ANtt/7.2/RES/01	0.3	No relaxation	BLQ (LOQ-0.03)
	Paraoxon methyl	μg/1	ANtr/7.2/RES/01	+		BLQ (LOQ-0.03)
33	Malathion	μg/l	ANtr/7.2/RES/01	190	No relaxation	BLQ (LOQ-0.03)
	Malaoxon	μg/1	ANtr/7.2/RES/01			BLQ (LOQ-0.03)
14	Ethion	μg/l	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	Phoeate		ANtr/7.2/RES/01			
	Phorate-sulfone	µg/1	ANtr/7.2/RES/01	2	No relaxation	BLQ (LOQ-0.03)
	Phorate-sulfoxide				CONTRACTOR OF	100033050000

NOTE: Prease see watermark "Original Test Report" to confirm the authenticity of this report. Results shall be referred to tested unstple(s) and applicable to tested parameters only. NOTE: • Presse see watermark. Uriginal Lei Report to continue the authenticity of non-report. • Results shall be referred to tested sample(s) and approxime to tested parameters only. • Test report shall not be reproduced except in fail without prior written approval of Anason Labs. • Labidity of Anason Labs in Instead to invoiced amount only. • Non-residuale and periobable sample(s) shall be disposed off after 30 days and 15 days impactively from the data of issue of Test Report, values specified otherwise. • #Permissible limit in absence of an alternate source for doming water. • 'impit' is opticident to 'ppit'. • 'apit' is expiralent to 'ppit'. • IRQ+ below limit of quantification. • Result for test no. 8 is not relevant. • ANter7.2/RES-61; ANter7.2/RES/06; Inhouse validated method. • NT' indication not Touind as sample failed in instability procedure (QP/7.8/05);

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.

END OF REPORT-

Verified By

Pradnyn Pillewan

Deputy Technical Manager

Authorized Signatory

hinmay Garway Deputy ality Manager



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Test Report

-	Dated 30/09/2024	Page 1 of 5			
Sample Inward No. Inward Date Reference	ALPL/2309/2024/MON-294- EW-3/2-2 23/09/2024 13562310264; 17.05.2024		Analysis Start Analysis End Sample Category	23/09/2024 30/09/2024 Water	
Sample Particulars / 1 GW-1	Details Purpose of ana Drinking		2001	y Received	
sheel Bhiogade	Sampling Date: Sampling Time:	21/09/2024 2.20 pm	Sampling BKB		
	Inward Date Reference Sample Particulars / I GW-1	Sample Inward No. ALPL/23092024/MC EW-3/2-2 Inward Date 23/09/2024 Reference 13562310264; 17:05 Sample Particulars / Details GW-1 Sampling Date:	Sample Inward No. ALPL/23092024/MON-294- EW-3/2-2 Inward Date 23/09/2024 Reference 13562310264; 17.05.2024 Sample Particulars / Details GW-1 Purpose of analy Drinking Date: 21/09/2024	Sample Inward No. ALPL/23092024/MCN-294- EW-3/2-2 Analysis Start Inward Date 23/09/2024 Analysis End Reference 13562310264; 17.05 2024 Sample Category Sample Particulars / Details Purpose of analysis Quantity GW-1 Sampling Date: 21/09/2024 Sampling	

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

			TEST RESULTS		ment as per		
S.N.	Test Parameter	Measurement Unit	Test Method	IS 105 (Drinking War Including Ar	Test Result		
				Acceptable Limit	Permissible Limit #		
1	Discipline : Biolo	gical Gr	oup : Water Mater	ial or Product lest	ed: Drinking water		
1	Coliform	Per 100 ml	IS 15185	Absent	Absent	Absent	
2	Escherichia coli	Per 100 ml	IS 15185	Absent	Absent	Absent	
н	Discipline : Cher	nical Gro	up : Water Mater	al or Product test	ed: Drinking water		
3	Total Alkalinity (as Calcium Carbonate)	mg/l	IS 3025 (Part 23)	200 600		179.31	
4	Ammonia (as N)	mg/l	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	BLQ (LOQ-0.01)	
6	Colour	Hazen units	1S 3025 (Part 4) Clause 4	5	15	I I	
7	Cyanide (as CN)	mg/l	1S 3025 (Part 27/Sec 1) Clause 5			BLO (LOO-0.005)	
8	Chloride (as Cl)	mg/l	15/3025 (Part 32) Clause 2			24.76	
9	Calcium (as Ca)	mg/l	1S 3025 (Part 40) Clause 5	75	200	47.39	
10	Chloramines (as Cl ₂)	mg/l	IS 3025 (Part 26)	4.0	No relaxation	BLQ (LOQ-0.1)	
11	Free Residual Chlorine	mg/l	15 3025 (Part 26) Clause 7	0.2	1	BL0 (L00-0.1)	
12	Fluoride (as F)	mg/l	15 3025 (Part 60) Clause 6	1.0	1.5	0.21	
13	Magnesium (as Mg)	mg/l	15 3025 (Part 46) Clause 6	30	100	13.27	
14	Nitrate (as NO ₃)	mgd	APHA 23 st edition: Method 4500- NO3	45	No relaxation	BLQ (LOQ-2)	
15	Odour		1S 3025 (Part 5)	Agreeable	Agrocable	Agreeable	
16	pH		1S 3025 (Part 11)	6.5 to 8.5	No relaxation	8.14 at 25°C	
17	Phenolic compounds (as CoHsOH)	mg/l	15 3025 (Part 43/Sec 1) Clause 6	0.001	0.002	BLQ (LOQ-0.001)	
18	Sulphate (as SO ₄)	mg/l	IS 3025 (Part 24/ Sec1) Chause 5	200	400	12.81	
19	Taste	+	IS 3025 (Part 8)	Agreeable	Agreeable	Agreeable	
20	Total dissolved solids	mg/l	IS 3025 (Part 16)	500	2000	462	
21	Turbidity	NTU	IS 3025 : (Part 10)	1	5	BLQ (LOQ-0.1)	
22	Total hardness (as CaCO ₃)	mg/l	1S 3025 (Part 21) Clause 5	200	600	172	
23	Sulphide (as H2S)	mg/l	IS 3025 (Part 29)	0.05	No relaxation	BLQ (LOQ-0.03)	
24	Mineral Oil	nu/1	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 Pillew Dy Technical Manager

Pooja Kathane Technical Manager

Authorized Signatories hinmay Garway suty Quality Manager

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Test Report

Test Report No.: ALPL/30092024/3-21 Issued To : M/s Hindalco Industries Limited Tatijharia, Post Jamira, Tebsil Samri(Kusmi), District: Balrampur (C.G)	Sample Inwa Inward Date Reference	E.MD.SE	4/MON-294-	Analysis Start Analysis End Sample Category	Page 2 of 5 23/09/2024 30/09/2024 Water	
Sample Name Water	Sample Particu GW-		Purpose of analysis Drinking	Quantity 51	Received	
Sampling done by Anacon representative Mr. Dharmasheel Bhiogade		Sampling Date: Sampling Time:	21/09/2024 2.20 pm	Sampling Location BKB Camp		
Tests required Arsenic, Aluminium, Bariu Zinc, Polynuclear aromatic hydrocarbon (P	m, Boron, Copper,		langanese, Mercury, Sele	nium, Total Chror	nium,	

TEST RESULTS

			LEGI MESULIO					
S.N.	Test Parameter	Measurement Unit	Test Method	IS 10 (Drinking Wa	Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4			
				Acceptable	Permissible Limit #			
п	Discipline : Chemical	Group : Res	idues and contaminants in	water Material or Product tested: Drinking water				
25	Arsenic (as As)	mg/l	15 3025 (Part 2)	0.01	No relaxation	BLQ (LOQ-0.01)		
26	Aluminium (as Al)	mg/l	15 3025 (Part 2)	0.03	0.2	BLQ (LOQ-0.02)		
27	Barium (as Ba)	mg/l	IS 3025 (Part 2)	0.7	No relaxation	BLQ (LOQ-0.02)		
28	Boron (as B)	mg/T	IS 3025 (Part 2)	0.5	2.4	BLQ (LOQ-0.02)		
29	Copper (as Cu)	mg/l	15 3025 (Part 2)	0.05	1.5	BLQ (LOQ-0.02)		
30	Cadmium (as Cd)	mg/l	15 3025 (Part 2)	0.003	No relaxation	BLQ (LOQ-0.002		
31	Iron (as Fe)	figm	1S 3025 (Part 2)	1.0	No relaxation	0.17		
32	Lead (as Pb)	Them.	15 3025 (Part 2)	0.01	No relaxation	BLQ (LOQ-0.01)		
33	Manganese (as Mn)	ng/l	15 3025 (Part 2)	0.1	0.3	BLQ (LOQ-0.02)		
34	Mercury (as Hg)	Pagm	Antr/7.2/Res.Inorg/01	0.001	No relaxation	BLQ (LOQ-0.001)		
35	Selenium (as Se)	1 mg/l	1S 3025 (Part 56)	0.01	No relaxation	BLQ (LOQ-0.01)		
36	Total Chromium (as Cr)	mg/l	1S 3025 (Part 2)	0.05	No relaxation	BLQ (LOQ-0.02)		
37	Zinc (as Zn)	mg/l	IS 3025 (Part 2)	5	15	BLQ (LOQ-0.02)		
38	Polynuclear aromatic hydrocarbon (PAH)	µg/l	ANtr/7.2/RES/03	0.1	No relaxation	BLQ (LOQ-0.03)		
п	Discipline : Chemical	Group : Res	idues contaminants in wate	er Material o	r Product tested: Drink	äng water		
39	Polychlorinated biphenyls					-		
	2.2.5-trichlorobiphenyl	μg/l	ANtr/7.2/RES/04			BLQ (LOQ-0.03)		
	2,4,4'-trichlorobiphenyl	μg/1	ANtr/7.2/RES/04			BLQ (LOQ-0.03)		
	2.2.5.5'-tetrachlorobiphenyl	µg/ī	ANtr/7.2/RES/04			BLQ (LOQ-0.03)		
	2,2',4,5,5'-pentachlorobiphenyl	µg/1	ANtr/7.2/RES/04	0.5	No relaxation	BLQ (LOQ-0.03)		
	2,2',3,4,4',5'-hexachlorobiphenyl	µg/l	ANtr/7.2/RES/04	14.2	Pro reasonon	BLQ (LOQ-0.03)		
	2,2',4,4',5,5'-hexachlorobiphenyl	µg/1	ANtr/7.2/RES/04			BLQ (LOQ-0.03)		
	2,2',3,4,4',5,5'- heptachlorobiphenyl	µg/l	ANtr/7.2/RES/04			BLQ (LOQ-0.03)		

Please refer last Page for Note and Remarks.

Vegified By Pradriva Pillewan

Deputy Technical Manager

Authorized Signatory Eninmay Galway Deputy Quality Manager



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Test Report

Test Report No.: ALPL/30092024 Issued To : M/s Hindalco Industries Limite Tatijharia, Post Jamira, Tehsil Samri(Kusmi),	Sample Inward N	Dated 30/09/2024 ALPL/25092024/MON-294- EW-3/2-2 23/09/2024 13562310264; 17.05.2024		Analysis Start Analysis End Sample Category	Page 3 of 5 23/09/2024 30/09/2024 Water	
District: Balrampur (C.G) Sample Name Water	Sample Particulars / De GW-1	etails	Purpose of analysis Drinking	Quantity Received		
Sampling of Anacon representative Mr.	Sampling Sampling	Contraction of the contraction of the second s	Sampling Location BKB Camp			
Tests required , Polynuclear aroma	and the second	ines ST RESULT	e		21-C-2	

S.N.	Test Parameter	Test Parameter Measuremen Unit		Test Method	IS 105 (Drinking Wat	Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4						
				Acceptable Limit	Permissible Limit #							
11	Discipline : Chemical	pline : Chemical Group : Residues contaminants in water Material or Product tested: Drinking										
-40	Polynuclear aromatic hydrocarbons											
	Naphthalene	μg/1	ANtr/7.2/RES/04			BLQ (LOQ-0.03)						
	Acenaphthylene	µg/1	ANtr/7.2/RES/04		= 2	BLQ (LOQ-0.03)						
	Acenaphthene	µg/1	ANtr/7.2/RES/04	1 1		BLQ (LOQ-0.03)						
	Fluorene	μg/1	ANtr/7.2/RES/04	1		BLQ (LOQ-0.03)						
	Anthracene	µg/l	ANtr/7.2/RES/04	1		BLQ (LOQ-0.03)						
	Phenanthrene	µg/l	ANtr/7.2/RES/04	1 1		BLQ (LOQ-0.03)						
	Fluoranthene	µg/l	ANtr/7.2/RES/04			BLQ (LOQ-0.03)						
	Pyrene	μg/l	ANto/7.2/RES/04	0.1	1993 - 1995 (C. 1995 - 19	8LQ (LOQ-0.03						
	Benzo(a)anthracene	µg/1	ANte/7.2/RES/04	0,1	No relaxation	BLQ (LOQ-0.03						
	Chrysene	µg/1	ANte/7.2/RES/04	1		BLQ (LOQ-0.03						
	Benzo(a)pyrene	μg/l	ANtr/7.2/RES/04	1		BLQ (LOQ-0.65						
	Benzo(b)fluoranthene	μg/1	ANtt/7.2/RES/04	1		BLQ (LOQ-0.03						
	Benzo(k)fluoranthene	µg/I	ANtr/7.2/RES/04	1		BLQ (LOQ-0.03						
	Indeno(123,cd)pyrene	µg/1	ANtr/7.2/RES/04	1		BLQ (LOQ-0.03						
	Dibenzo(a,h)anthracene	μg/1	ANtr/7.2/RES/04	1		BLQ (LOQ-0.03						
	Benzo(ghi)perylene	μg/1	ANtr/7.2/RES/04	1		BLQ (LOQ-0.03						
41	Trihalomethanes			Stream St	1	Concernance of						
1	Bromoform	mg/l		0.1	No relaxation	BLQ (LOQ-0.05						
ii	Dibromochloromethane	mg/I	ANtr/7.2/RES/04	0.1	No relaxation	BLQ (LOQ-0.05						
ili	Bromodichloromethane	mg/l	AND/1.2/RES/04	0.06	No relaxation	BLQ (LOQ-0.05						
iv	Chloroform	mgil			No relaxation	BLQ (LOQ-0.05						

Please refer last Page for Note and Remarks.

Verified By

Pradnya Pillewan

Deputy Technical Manager

Authorized Signatory

Chinnay Garway Deputy Quanty Manager



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Test Report

Test Report No.: ALPL/30092024/3-21 Issued To : M/s Hindalco Industries Limited Tatijharia, Post Jamira, Tehsil Samri(Kusmi),	Sample Inwar Inward Date Reference	Dated 30/09/2024 ALPL/2309202 EW-3/2-2 23/09/2024 13562310264; 1	VMON-294- Analysis Start Analysis End		Page 4 of 5 23/09/202 30/09/202 y Water	
District: Balrampur (C.G) Sample Name Water	Sample Particula GW-1	GW-1 Purpose of an Drinking			y Received	
Sampling done by Anacon representative Mr. Dharm	Sampling Date: Sampling Time:	21/09/2024 2.20 pm	Sampling BKB (
Tests required - Pesticide Residues Organ	and the second	TEST RESULTS				

5.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4		00 : 2012 er Specifications)	Test Result	
				and the second se	ble Limit	Permissible Limit #		
ш	Discipline : Chemical	many second s	ues contaminants	in water	Material o	r Product tested: Drinking	water	
42	Pesticide Residues Organochlorine			24241622			in the second second	
1	Alpha-HCH	μg/1	ANtr/7.2/RES/0	1	0.01	No relaxation	BLQ (LOQ-0.01	
	Beta HCH	µg/l	ANtr/7.2/RES/0	1	0.04	No relaxation	BLQ (LOQ-0.03	
	Delta- HCH	µg/1	ANtr/7.2/RES/0	1	0.04	No relaxation	BLQ (LOQ-0.03)	
2	Gamma - HCH (Lindane)	µg/l	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/l	ANtr/7.2/RES/0	1	0.03	No relaxation	BLQ-(LOQ-0.03	
5	Butachlor	µg/l	ANtr/7.2/RES/0	1	125	No relaxation	BLQ (LOQ-0.03	
		µg/l	ANtr/7.2/RES/0	1			BLQ (LOQ-0.03	
		µg/t	ANtr/7.2/RES/01				BLQ (LOQ-0.03	
6	p,p'-DDE, o,p'-DDE, p,p'-DDD,	µg/I	ANtr/7.2/RES/0	1	100	122115.00110000111	BLQ (LOQ-0.03	
	a,p'-DDD, a,p'-DDT, p,p'-DDT	μg/1	ANtr/7.2/RES/0	1	1	No relaxation	BLQ (LOQ-0.03	
	1997 (1997) - 1997 (1997) - 1997	µg/I	ANtr/7.2/RES/0	1			BLQ (LOQ-0.03	
		μg/1	ANtr/7.2/RES/0	1			BLQ (LOQ-0.03	
7	Atrazine	µg/T	ANtr/7.2/RES/0	1	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						and the second sec	
	Alpha-Endosulphan	-				Ma submatica	8040040	
	Beta-Endosulphan Endosulphan sulphate	Pig/l	ANtr/7.2/RES/		0.4	No relaxation	BLQ (LOQ-6.03	

Please refer last Page for Note and Remarks.

Verified B Pradmin Pillewan Deputy Technical Manager

Authorized Signatory Phinmay Gerway puty Quality Manager



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Test Report

Test Report No.: ALPL/30092024	3-21 Dute	d 30/09/2024			Page 5 of	5
Issued To : M/s Hindalco Industries Limite Tatijharia, Post Jamira, Tehsil Samri(Kusmi), District: Balrampur (C.G)	Sample Inward	No. EW-3/2-2 23/09/2024				23/09/2024 30/09/2024 Water
Sample Name Water	Sample Particula GW-1	rs / Details	Purpose of anal Drinking			Received
Sampling of Anacon representative Mr.	Sampling Date: Sampling Time:	21/09/2024 2.20 pm	Sampling L BKB Ci			
Tests required - Pesticide Residue	s Organophosphorus			10		

S.N.	Test Parameter	Measurement Unit	Test Method	IS (Drinking V	Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4				
				Acceptable Limit	Permissible Limit #				
IV	Discipline : Chemical	Group :	Residues contaminant	s in water Ma	terial or Product tested: I	Drinking water			
43	Pesticide Residues Organophos	phorus							
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/l	ANtr/7.2/RES/01	0.3	No relaxation	BLQ (LOQ-0.05)			
	Paraexon methyl	µg/1	ANtr/7.2/RES/01			BLQ (LOQ-0.03)			
13	Malathion	µg/1	ANtr/7.2/RES/01	190	No relaxation	BLQ (LOQ-0.03)			
	Malaoxon	µg/l	ANtr/7.2/RES/01	-	-	BLQ (LOQ-0.03)			
14	Ethion	µg/I	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						
	Phorate-sulfone	μg/1	ANtr/7.2/RES/01	2	No relaxation	BLQ (LOQ-0.03			
	Phorate-sulfoxide								

NOTE: • 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 section approval of Anacon Labs. • Liability of Anacon Labs is limited to involved amount only. • Non-periolable and periolable sample(s) shall be disposed off after 30 days and 15 days respectively from the date of insize of Test Report, unless specified otherwise. • #Permissible limit is absence of an alternate source for drinking water. • 'mg?' is equivalent to 'ppn'. • 'agt? is equivalent to 'pyb'. • BLQ+ below limit of quantification. LOQ+ limit of quantification. • Result for test to. 8 is not relevant. • ANin/7.2/RES 01; ANin/7.2/RES 06; Tabuase validated method. • NT' indicates not Tested as sample failed to statistic statistic statistic statistic statistic statistic statistic concerns. • Sampling Method-ANid/7.2/MON-01 • Environmental condition - Satisfactory. • Statement of conformity instead on the basis of decision rule as per quality procedure (QP7.805).

REMARKS: As requested by the client, sample was tested for above parameters only. The submitted sample complies with requirement as per IS: 19500:2012, for tests conducted only.

Verified By

Pradnya Pillewan

Deputy Technical Manager

END OF REPORT-

Authorized Signatory

Chinmay Anrway Deputy Quality Manager



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Annexure-E



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:	Tatijharia Bauxite Mine	atijharia Bauxite Mine Of M/s Hindalco Industries Limited							
Project Address:	Village-tatijharia								
Village:	Tatijhariya	Block:	Kusmi						
District:	Balrampur	State:	Chhattisgarh						
Pin Code:									
Communication Address:	Hindalco Industries Lir Balrampur, Chhattisga		n Samri, At And Po - Kusmi, Kusmi,						
Address of CGWB Regional Office :			l Chhattisgarh, 2nd Floor, Lk Corporate Dumartarai, Raipur, Chhattisgarh -						
		100							

					000/7	-74	6	hat				20		
NUC NO.:		CGWA/NG		EN/2/2	023/75	571	Ζ.	Date of issuence			03/04/2023			
Application	No.:	21-4/1434	21-4/1434/CT/MIN/2018				4.	Category: (GWRE 2020)		Sa	Safe			
Project Sta	tus:	Existing G	round Wa	ater		\sim	6.	NOC	Туре:	R	enewal			
Valid from	:	28/03/202	3			\sim	8.	Valid	up to:	27	7/03/202	25		
Ground Wa	ater Abstra	action Peri	nitted:		. 1	~~2								
Fresh Water Saline Water				Dewatering				Total						
m³/day	m³/yea	ar r	m³/day m³/year		n	n³/day	m³/year		m	m³/day m³		n³/year		
5.00	1550.0	00		X										
Details of g	ground wa	ter abstrad	tion /Dev	vatering	g struct	tures								
		Total Ex	isting No	o.:5					То	tal Prop	oosed N	lo.:0		
		DW	DCB	BW	TW	MP	MPu	DW	DCB	BW	TW	MP	MPu	
Abstraction	Structure	* 0	0	1	4	0	0	0	0	0	0	0	0	
V- Dug Well; DC	CB-Dug-cum	-Bore Well; E	W-Bore We	ell; TW-T	ube Wel	ll; MP-Min	e Pit;MPu	I-Mine Pu	umps					
Ground Wa	ater Abstra	action/Res	toration (harges	s naid ((Rs.)·				155	50.00			
	Project Sta Valid from Ground Wa Fresh m ³ /day 5.00 Details of g Abstraction	Application No.: Project Status: Valid from: Ground Water Abstra Fresh Water m³/day m³/yea 5.00 1550.0 Details of ground wa Abstraction Structure /- Dug Well; DCB-Dug-cum	Application No.: 21-4/1434 Project Status: Existing G Valid from: 28/03/2023 Ground Water Abstraction Perr Fresh Water m³/day m³/year n 5.00 1550.00 Details of ground water abstract Total Exi DW Abstraction Structure* 0 /- Dug Well; DCB-Dug-cum-Bore Well; E	Application No.: 21-4/1434/CT/MIN/ Project Status: Existing Ground Water Valid from: 28/03/2023 Ground Water Abstraction Permitted: Fresh Water Fresh Water Saling m³/day m³/year 5.00 1550.00 Details of ground water abstraction /Dew Total Existing No DW DCB Abstraction Structure* 0 0 /- Dug Well; DCB-Dug-cum-Bore Well; BW-Bore Well For an and an and an and an and and and and	Application No.: 21-4/1434/CT/MIN/2018 Project Status: Existing Ground Water Valid from: 28/03/2023 Ground Water Abstraction Permitted: Saline Water Fresh Water Saline Water m³/day m³/year 5.00 1550.00 Details of ground water abstraction /Dewatering Total Existing No.:5 DW DCB Abstraction Structure* 0 0 /- Dug Well; DCB-Dug-cum-Bore Well; BW-Bore Well; TW-T	Application No.:21-4/1434/CT/MIN/2018Project Status:Existing Ground WaterValid from:28/03/2023Ground Water Abstraction Permitted:Fresh WaterSaline Waterm³/daym³/year m^3/day $m^3/year$ $m^3/year$ 5.001550.00Details of ground water abstraction /Dewatering structTotal Existing No.:5DWDCBBWTWAbstraction Structure*0014/ DWDCBBWTWAbstraction Structure*0014/ Poug Well; DCB-Dug-cum-Bore Well; BW-Bore Well; TW-Tube Well	Application No.:21-4/1434/CT/MIN/2018Project Status:Existing Ground WaterValid from: $28/03/2023$ Ground Water Abstraction Permitted: 500 Fresh WaterSaline Waterm³/daym³/yearm³/daym³/year5.001550.00Details of ground water abstraction /Dewatering structuresTotal Existing No.:5DW DCB BW TW MPAbstraction Structure*001400202020202020202020202030304<	Application No.:21-4/1434/CT/MIN/20184.Project Status:Existing Ground Water6.Valid from:28/03/20238.Ground Water Abstraction Permitted:8.Ground Water Abstraction Permitted: m^3/day Fresh WaterSaline WaterDermitdaym³/daym³/yearm³/daym³/year5.001550.00 $V = T = T = T = T = T = T = T = T = T = $	Application No.: 21-4/1434/CT/MIN/2018 4. Categression Project Status: Existing Ground Water 6. NOC T Valid from: 28/03/2023 8. Valid Ground Water Abstraction Permitted: 8. Valid Fresh Water Saline Water Dewatering m³/day m³/year m³/day m³/year m³/day r 5.00 1550.00 Image: Structure On the Structure On the Structure Str	Application No.: 21-4/1434/CT/MIN/2018 4. Category: (GWRE 2020) Project Status: Existing Ground Water 6. NOC Type: Valid from: 28/03/2023 8. Valid up to: Ground Water Abstraction Permitted: 5.00 1550.00 m³/day m³/year m³/day m³/year m³/day m³/year m³/year 5.00 1550.00 Image: Structure Str	Application No.: 21-4/1434/CT/MIN/2018 4. Category: (GWRE 2020) S. Project Status: Existing Ground Water 6. NOC Type: R Valid from: 28/03/2023 8. Valid up to: 21 Ground Water Abstraction Permitted: 8. Valid up to: 21 Ground Water Abstraction Permitted: 5.00 1550.00 m³/year m³/year m³/year m³/year m S.00 1550.00 Image: Structure Struc	Application No.: 21-4/1434/CT/MIN/2018 4. Category: (GWRE 2020) Safe Project Status: Existing Ground Water 6. NOC Type: Renewal Valid from: 28/03/2023 8. Valid up to: 27/03/202 Ground Water Abstraction Permitted: 8. Valid up to: 27/03/202 Ground Water Abstraction Permitted: 9. m³/day m³/year m³/day m³/year m³/day m³/year m³/day <	Application No.: 21-4/1434/CT/MIN/2018 4. Category: (GWRE 2020) Safe Project Status: Existing Ground Water 6. NOC Type: Renewal Valid from: 28/03/2023 8. Valid up to: 27/03/2025 Ground Water Abstraction Vermitted: 8. Valid up to: 27/03/2025 Fresh Water Saline Water Dewatering m³/day m³/day m³/year m³/day m³/day m³/day m³/day 5.00 1550.00 Image: Structure NO.:S Image: Structure	

(Compliance Conditions given overleaf)

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> 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

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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,:	21-4/1434/CT/MIN/2018							
Name of Firm:	TATIJHARIA BAUXITE MINE	TIJHARIA BAUXITE MINE OF M/S HINDALCO INDUSTRIES LIMITED						
AppType Category:	Base Metal Ores							
Application Type:	Mining		~					
PAN/GSTIN No. of Firm	/Individual:	/	\sim					

S N	Description	Amount (Rs.)
-	Application Processing Fee	1000.00
•	Ground Water Abstraction /Restoration charges	1550.00
•	Environmental Compensation Charges (ECRGW) (Date From to) Days-	
•	Penalty for non-Compliance of NOC conditions Condition to be mentioned	
	Rs. Rupees Two Thousand Five Hundred Fifty Only	2550.00
	CEMPAN GROUMD WY	



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Test Report

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Ambient Air Quality-April-2024

Report No .:-	ALPL/30042024/2-1	Report Date:-	30/04/2024
Issued to :-	M/s Hindalco Industries Limited	Address:-	Tatijharia, Post Jamira, Tehsil Samri(Kusmi), District: Balrampur (C.G)
Type of Work:-	Ambient Air Quality (Core Zone)	Sample Ref. No. :	ALPL/22042024/ENV-127/1-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	PMa µg/m ³	PM13 µg/m3	SO1 µg/m³	NO: µg/m ³	CO mg/m ³
	Method Reference		15 5182 (Part 23)	USEPA-40 (Part 30)	15:5182 (Part-2)	15:3182 (Pari-6)	15:3182 (Part-10)
		03/04/2024	68.2	26.1	12.9	23,7	BDL (DL-0.5)
		06/04/2024	71.6	31.0	13.4	24.9	BDL (DL - 0.5)
	4000000000	10/04/2024	64.8	24.3	9,3	18.6	BDL (DL - 0.5)
00222	Tatijharia	13/04/2024	67.2	26.H	11.9	21.8	BDL (DL-0.5)
AAQ-1	Village/Nr.Weigh	17/04/2024	71.3	31.9	12.8	µg/m ³ 15:3182 (Pari-6) 23.7 24.9 18.6	BDL (DL - 0.5
	Bridge	20/04/2024	μg/m³ μg/m³ μg/m³ μg/m³ μg/m³ 15 5182 USEPA-40 15:5182 15:5182 15:5182 (Part 23) (Part 50) (Part-2) (Part-4) 6852 26.1 12.9 23.7 71.6 31.6 13.4 24.9 64.8 24.3 9.3 18.6 67.2 26.8 11.9 21.8 71.3 31.9 12.8 26.1 64.7 28.1 9.3 18.7 57.3 24.9 8.7 17.3 62.8 23.6 11.3 21.9	18.7	BDL (DL-0.5)		
		24/04/2024	573	24.9	8,7	17.3	BDL (D10.5)
		27/04/2024	62.8	23.6	11.3	21.9	BDL (DL-0.5
	CPCB Standards		100 (24 hm)	60 (24 hrs)	80 (24 hrs)	80 (24 hrs)	2 (8hrs)

Sr. No.	LOCATION	Date of sampling	РЪ (µg/m ³)	Нg (µg/m ³)	As (ng/m ³)	Cr (µg/m ⁵)
	Method Reference	ŕ.	IS:5182 (Part 22)	Lab SOP	Lab SOP	Lab SOP
		03/04/2024	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)
	Tutter	10/04/2024	0.034	BDL (DL-0.0005)	BDL (DL-2.0)	BDL (DL-0.03)
	Tatijharia	13/04/2024	0.026	BDL (DL-0.0005)	BDL (DL-2.0)	BDL (DL-0.03)
AAQ-1	Village/Nr.Weigh	17/04/2024	0.021	BDL (DL-0.0005)	BDL (DL-2.0)	BDL (DL-0.03)
	Bridge	20/04/2024	0.031	BDL (DL-0.0005)	IIDL (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)	BERL (DL-2.0)	BDL (DL-0.03)
	CPCB Standards	6	1.0 (24 hrs)		6.0 (annual)	

NOTES:

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BDL- Below detection limit

DL- Indicates detection limit of instrument/wellhod and shall be considered as 'absest'.

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

Verified by

Nidhi Dubey Deputy Technical Manager

FOR Ethore

Snehal Raut Technical Manager

----End of Report----

Authorized Signatory

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



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Test Report

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Ambient /	Air Q	uality	y-April	1-2024
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Report No.:-	ALPL/30042024/2-2	Report Date:-	30/04/2024
Issued to :-	M/s Hindalco Industries Limited	Address:-	Tatijharia, Post Jamira, Tehsil Samri(Kusmi), District: Balrampur (C.G)
Type of Work:-	Ambient Air Quality (Core Zone)	Sample Ref. No. :	ALPL/22042024/TNV-127/1-CZ-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	10 - 10 - 12 - 11 - 11	

St. No.	LOCATION	Date of sampling	PMae µg/m ³	PMin jug/m ³	SOr µg/m ³	NO: µg/m ³	CO mg/m ³
	Method Reference	e	15 5182 (Part 23)	USEPA-40 (Part 50)	15:5182 (Part-2)	15:5182 (Part-6)	15:5182 (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
		10/04/2024	64.1	23.6	11.4	17.9	BDL (DL - 0.5
110.2	Piprapat/Nr.	13/04/2024	56.3	18.3	9.2	26.4	BDL (DL-0.5
AAQ-2	Mining Area	17/04/2024	54.9	16.2	8.7	μg/m ³ 15.5182 (Part-6) 23.6 24.1 17.9	BOL (DL-0.5
		20/04/2024	4 63.9 21.8 12.6 24.1 4 64.1 23.6 11.4 17.5 4 56.3 18.3 9.2 26.4 4 54.9 16.2 8.7 23.5 4 62.8 21.6 12.6 21.5	21.9	BDL (DL-0.5		
		24/04/2024	64.2	23,1	13.7	24.6	BDL (DL-0.5
		27/04/28/24	58.3	19.3	9.6	19.7	BDL (DL - 0.3
	CPCB Standard	s .	100 (24 hrs)	60 (24 hrs)	80 (24 hrs)	80 (24 hrs)	2 (Shrs)

Sr. No.	LOCATION	Date of sampling	Pb (µg/m ³)	Hg (µg/m ³)	As (ng/m ³)	Cr (ug/m ³)
	Method Reference	×	15:5182 (Part 22)	Lab SOP	Lab SOP	Lab SOP
		03/04/2024	0.036	BDL (DL-0.0005)	BDL (DL-2.0)	BDL(DL-0.03)
		06/04/2024	0.024	BDL (DL-0.0005)	BDL (DL-2.0)	BDL(DL-0.03)
		10/04/2024	0.021	BD4. (DL-0.0005)	BDL (DL-2.0)	BDL (DL-0.03)
AAQ-2	Piprapat/Nr.	13/04/2024	0.029	BDL (DL-0.0005)	BDL (DL-2.0)	BDL (DL-0.03)
1446.5	Mining Area	17/04/2024	0.018	BDL (DL-0.0005)	BDL (DL-2.0)	BDL (DL-0.03)
	A CONTRACTOR OF A CONTRACTOR O	20/04/2024	0.024	BDL (DL-0.0005)	BDL (DL-2.0)	BDL (DL-0.03)
		24/04/2024	0.026	BDL (DL-0.0005)	BDL (DL-2.0)	BDL (DL-0.03)
		27/04/2024	0.021 BDL (DL-0.0005)		BDL (DL-2.0)	BDL (DL-0.03)
	CPCB Standard	5	1.0 (24 hrs)		6.0 (annual)	

NOTES:

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IDL- Ilelow 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

Finds. Snehal Raut

Technical Manager

Authorized Signatory

Jaur

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

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Test Report

Page 1 of 1

Ambient Air Quality-April-2024								
Report No .:-	ALPL/30042024/2-3	Report Date:-	30/04/2024					
Issued to :-	M/s Hindalco Industries Limited	Address:-	Tatijharia, Post Jamira, Tehsil Samri(Kusmi), District: Balrampur (C.G)					
Type of Work>	Ambient Air Quality (Core Zone)	Sample Ref. No. :	ALPL/22042024/ENV-127/1-CZ-3 , W1/A11 & A12, W2/A11 & A12, W3/A11 & A12, W4/A11 & A12.					

Ambiant Air Quality Annil 2024

ample Drawn By:	Mr. Kailash Chahande		1	Sample Recd. Date		8,15,22,29 April-2024 24 hrs			
late of Analysis:-	1	0,16,23,30 April-2024	1	Sampling time					
ampling Procedure	ANtd/7.2/M	on-01							
Sr. No. U	OCATION	Date of sampling	PMa pg/m ³	PMaa µg/m³	5O2 µg/m³	NO: µg/m ³	CO mg/m ¹		
,	Method Reference	a .	18 5182 (Part 23)	USEPA-40	1S-5182 (Part-2)	15:5182 (Part-6)	15:5182 (Part-10)		
		03/04/2024	68.3	24.7	13.9	26.7	BDL (DL-0.5)		
		06/04/2024	72.8	26,4	12.1	21.6	BDL (DL-0.5)		
		18/04/2024	61.9	19.3	11.6	23.4	BDL (DL - 0.5)		

	CPCB Standards		100 (24 hrsh	60 (24 hrs)	80 (24 hm)	80 (24 hrs)	2 (Shrs)
		27/04/2024	56.7	21.9	9.7	18.3	BDL (DL - 0.5)
		24/04/2024	67.2	24.3	11.6	23.4	BDL (DL - 0.5)
AAQ-3		20/04/2024	64.9	23.8	8,7	21.8	BDL (DL - 0.5)
	viniorepat	17/04/2024	57.3	19.2	11.4	18.6	BDL (DL - 0.5)
	Vichamont	13/04/2024	64.1	21.6	9,3	23.4 17.3 18.6 21.8 23.4 18.3	BDL (DL-0.5)
	AAO-3 Vichorenal 13/04/2024 64.1 21.6 9.3 17.3	23.4	BDL (DL - 0.5)				
		06/04/2024	72.8	26,4	12.1	21.6	BDL (DL - 0.5)

As Cr Hg Pb Sr. No. LOCATION Date of sampling (µg/m3) (µg/m3) (ug/m³) (ng/m3) 15:5182 Lab SOP Method Reference Lab SOP Lab SOP (Part 22) 8DL (DL-0.005) 0.026 BDL (DL-2.0) BDL(DL-0.03) 03/04/2024 BDL(DL-0.03) 06/04/2024 0.024 BDL (DL-0.0005) BDL (DL-2.0) BDL (DL-0.03) 0.021 BDL (DL-0.0005) BDL (DL-2.0) 10/04/2024 RDL (PL 0.03) 0.019 BDL (DL-0.0005) BDL (DL-2.0) 13/04/2024 AAO-3 Virhorepat BDL (DL-0.03) 0.024BDL (DL-0.0005) BDL (DL-2.0) 17/04/2024 BDL (DL-0.03) 0.026 BDL (DL-0.0005) BDL (DL-2.0) 20/04/2024 0.018 BDL (DL-0.0005) BDL (DL-2.0) HDL (DL-0.03) 24/04/2024 BDL (DL-6.03) 27/04/2024 0.024 BDL (DL-0.0005) BDL (DL-2.0) **CPCB** Standards 1.0 (24 hrs) 6.0 (annual)

NOTES:
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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.

idhi Dubey

Deputy Technical Manager

Verified by And

Snehal Raut Technical Manager

Authorized Signatory an

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

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

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Test Report

Ambient Air Quality-April-2024

Page 1 of 1

Report No.:-	ALPL/30042024/2-4	Report Date:-	30/04/2024
Issued to :-	M/s Hindalco Industries Limited	Address:-	Tatijbaria, Post Jamira, Tehsil Samri(Kusmi), District: Balrampur (C.G)
Type of Work:-	Ambient Air Quality (Core Zone)	Sample Ref. No. :	ALPL/22042024/ENV-127/1-CZ-4 , W1/ATI & A12, W2/ATI & A12, W3/ATI & A12, W4/ATI & 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 µg/m ³	PM20 µg/m ³	SO: µg/m ³	NO: µg/m [#]	CO mg/m ³
	Method Reference	ie.	45 5182 (Part 23)	USEPA-40 (Part 50)	(Part-2)	15:5182 (Part-6)	15:5182 (Part-10)
		03/04/2024	58,3	21.6	11.4	18,3	BDL (DL-0.5)
		06/04/2024	62.9	23.8	12.6	21.8	BDL (DL-0.5)
		10/04/2024	57.2	19.2	9.3	17.6	BDL (DL-0.5)
AAQ-4	Phinast	. 13/04/2624	61.7	21.6	11.4	23.9	BDL (DL - 0.5)
1442-1	Khinpat	17/04/2024	64.8	26.7	13.8	26.1	BDL (DL - 0.5)
		20/04/2024	57.2	19,3	9.2	18.7	BDL (DL - 0.5)
		24/04/2024	61.4	21.8	11.6	21.9	BDL (DL - 0.5)
		27/04/2024	63.9	23.4	12.7	24.3	BDL (DL - 0.5)
	CPCB Standard	5	100 (24 hrs)	60 (24 Jurs)	80 (24 hrs)	80 (24 hrs)	2 (Shrs)

Sr. No.	LOCATION	Date of sampling	Pb Hg (µg/m ³) (µg/m ³)		As (ng/m ³)	Cr (µg/m ³)
Method Reference			IS:\$182 (Part 22)	Lab SOP	Lab SOP	Lab SOP
		03/04/2024	BDL (DL-0.01)	BDL (DL-0.0005)	BDL (DL-2.0)	BDL(DL-0.03)
		36/04/2024	BDL (DL-0.01)	BDL (DL-0.0005)	BDL (DL-2.0)	BDL(DL-0.03)
		10/04/2024	BDL (DL-0.01)	BDL (DL-0.0005)	BDL (DL-2.0)	BDL (DL-0.03)
AAQ-4	Khinpat	13/04/2024	8DL (DL-0.01)	BDL (DL-0.0005)	BDL (DL-2.0)	BDL (DL-0.03)
naga	клипра	17/04/2024	BDL (DL-0.01)	BDL (DL-0.0005)	BDL (DL-2.0)	BDL (DL-0.03)
		20/04/2024	8DL (DL-0.01)	8DL (DL-0.0005)	BDL (DL-2.0)	BDL (DL-0.03)
		24/04/2024	BDL (DL-0.01)	BDL (DL-0.0005)	BDL (DL-2.0)	BDL (DL-0.03)
		27/04/2024	BDL (DL-0.01)	BDL (DL-0.0005)	BDL (DL-2.0)	BDL (DL-0.03)
CPCB Standards		1.0 (24 hrs)	+++	6.0 (annual)	1.646.7	

NOTES:

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BDL- Below 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

Elmo

Snehal Raut Technical Manager

Authorized Signatory

Jan

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

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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Report No .:-	ALPL/30042024/2-5	Report Date:-	30/04/2024
Issued to :-	M/s Hindalco Industries Limited	Address:-	Tatijharia, Post Jamira, Tehsil Samri(Kusmi), District: Balrampur (C.G)
Type of Work:-	Ambient Air Quality (Buffer Zone)	Sample Ref. No. :	ALPL/22042024/ENV-127/1-8Z-5 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		

Ambient Air Quality-April-2024

Sr. No.	LOCATION	Date of sampling	PMae µg/m ³	PM23 µg/m3	SO1 µg/m ³	NO: µg/m ⁸	CO mg/m ³
Method Reference		15 5182 (Part 23)	USEPA-40 (Part 50)	IS:5182 (Part-2)	(Part-6)	15:5182 (Part-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	18.2	BDL (DL-0.5)
12-22-21-2	Kutku Village/Nr.	11/04/2024	64.7	18.1	6,7	10.4	BDL (DL - 0.3
AAQ-5	V.T. Center	15/04/2024	54.2	17.9	12.8	23.6	BDL (DL-0.5
	2011 - Santra-L.	18/04/2024	56.3	23.6	11.4	21.7	BDL (DL-0.5
		22/04/2024	63,8	32.9	12.6	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 hrs)	60 (24 hrs)	80 (24 hrs)	80 (24 hrs)	2 (Shrs)	

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 50P	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)
	and the second sec	08/04/2024	BDL (DL-0.01)	BDL (DL-0.0005)	BDL (DL-2.0)	BDL (DL-0.03
1141	Kutku Village/Nr.	11/04/2024	BDL (DL-0.01)	HDL (DL-0.0005)	BDL (DL-2.0)	BDL (DL-0.83)
AAQ-5	V.T. Center	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)	BDL (DL-2.0)	8DL (DL-0.03
		22/04/2024	BDL (DL-0.01)	BDL (DL-0.0005)	BDL (DL-2.0)	BDL (DL-0.03
		25/04/2024	BDL (DL-0.01)	BDL (DL-0.0005)	BD4. (D12.0)	BOL (DL-0.03
	CPCB Standards		1.0 (24 hrs)		6.0 (annual)	

NOTES:

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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

CON (Elm

Snehal Raut Technical Manager

Authorized Signatory 1 au

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

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

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Test Report

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Report No .:-	ALPL/30042024/2-6	Report Date:-	30/04/2024
Issued to :-	M/s Hindalco Industries Limited	Address:-	Tatijharia, Post Jamira, Tehsil Samri(Kusmi), District: Balrampor (C.G)
Type of Work:-	Ambient Air Quality (Buffer Zone)	Sample Ref. No. :	ALPL/22042024/ENV-126/1-BZ-6, 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		

Ambient Air Quality-April-2024

Sr. No.	LOCATION	Date of sampling	PMse µg/m ³	PMas µg/m ³	SO1 µg/m ³	NOs µg/m³	CO mg/m ³
Method Reference		15 5182 (Part 23)	USEPA-40 (Part 50)	1S:5182 (Part-2)	15:5182 (Part-6)	15:5182 (Part-10)	
		01/04/2024	74.9	32.8	13.1	27.6	BDI, (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)
0002000	Dhandiapat/	11/04/2024	57,1	21.6	11.8	24.7	BDL (DL - 0,5)
AAQ-6	Nr. Mining Area	15/04/2024	673	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	ISDL (DL-0.5
CPCB Standards		100 (24 hrs)	60 (24 hrs)	80 (24 hrs)	80 (24 hm)	2 (Shrs)	

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
		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
0.002/5	Dhandiapat/	11/04/2024	0.021	BDL (DL-0.0005)	BDL (DL-2.0)	BDL (DL-0.03
AAQ-6	Nr. Mining Area	15/04/2024	0.018	BDL (DL-0.0005)	BDL (DL-2.0)	BDL (DL-0.03
		18/04/2024	0.016	8DL (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
	1	25/04/2024	0.016	BDL (DL-0.0005)	BDL (DL-2.0)	BDL (DL-0.03
	CPCB Standards		1.0 (24 hrs)	-	6.0 (annual)	

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DL- Indicates detection limit

if 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 01 Ethel Snehal Raut

Technical Manager

Authorized Signatory

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

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Ambient Air Quality-April-2024

Report No.:-	ALPL/30042024/2-7	Report Date:-	30/04/2024
Issued to :-	M/s Hindalco Industries Limited	Address-	Tatijharia, Post Jamira, Tehsil Samri(Kusmi), District: Balrampur (C.G)
Type of Work:-	Ambient Air Quality (Buffer Zone)	Sample Ref. No. :	ALPL/22042024/ENV-127/1-82.7 , 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	PM== µg/m ³	PMzs µg/m ³	SO: µg/m/	NO: µg/m ³	CO mg/m ³
Method Reference		1S 5182 (Part 23)	USEPA-40 (Part 50)	15:5182 (Part-2)	IS:5182 (Part-6)	15:5182 (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	8DL (DL - 0.5)
		09/04/2024	64.9	28.1	11.4	19.2	BDL (DL - 0.5)
00002020	And Assessed to the other	12/04/2028	67.3	32.8	14.3	26.1	BDL (DL - 0.5)
AAQ-7	Sairaidh 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	18.2	RDI (DL - 0.5)
		23/04/2024	58.3	19.8	9.7	16.4	BDL (DL - 0.5)
	26/04/	26/04/2024	61.7	21.6	11.4	17.9	BDL (DL-0.5
CPCB Standards		100 (24 hm)	60 (24 hm)	80 (24 hrs)	80 (24 hrs)	2 (Shrs)	

Sr. No.	LOCATION	Date of sampling	Pb (µg/m ³)	Hg (µg/m ³)	As (ng/m ³)	Ce (µg /m ³)
Method Reference		15:5182 (Part 22)	Lab SOP	Lab SOP	Lab SOP	
	02/04/2024	BDL (DL-0.01)	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-41,01)	BDL (DL-0.0005)	BDL (DL-0.1)	BDL(DL-0.03)
613222	al in a little	12/04/2024	BDL (DL-0.01)	BDL (DL-0.0005)	BDL (DL-0.1)	BDL(DL-0.03)
AAQ-7	Sairaidh Campus	16/04/2024	BDL (DL-0.01)	BDL (DL-0.0005)	BDL (DL-0.1)	BDL(DL-0.03)
		19/04/2024	BDL (DL-0.01)	BDL (DL-0.0005)	BDL (DL-0.1)	8DL (DL-0.5
		23/04/2024	BDL (DL-0.01)	HDL (DL-0.0005)	BDE. (DE0.1)	BDL (DL - 0.5
		26/04/2024	BDL (DL-0.01)	BDL (DL-0.0005)	BDL (DL-0.1)	BDL(DL-0.03)
	CPCB Standards		1.0 (24 hrs)		6.0 (annual)	

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III: Inducates detection limit

imit of 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 * Technical Manager

Authorized Signatory

Gan

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

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Ambient Air Quality-April-2024

Report No .:-	ALPL/30042024/2-8	Report Date:-	30/04/2024
Issued to :-	M/s Hindalco Industries Limited	Address>	Tatijharia, Post Jamira, Tehsil Samri(Kusmi), District: Balrampur (C.G)
Type of Work:-	Ambient Air Quality (Buffer Zone)	Sample Ref. No. :	ALPL/22042024/ENV-127/1-BZ-8, W1/A11 & A12, W2/A11 & A12, W3/A11 & A12, W4/A11 & A12.
Sample Drawn By:	Mr. Kailash Chabande	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	PMus µg/m³	PMas µg/m ³	SO: µg/m ³	NO: µg/m³	CO mg/m ³
Method Beference		15 5182 (Part 23)	USEPA-40 (Part 50)	(S:5182 (Part-2)	15:5182 (Part-6)	1S: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)
	Dumerkholi/Nr.	11/04/2024	73.3	32.8	14.6	29.1	BDL (DL-0.5
AAQ-8	Mining Area	15/04/2024	68.2	26.4	11.3	23.9	BDL (DL-0.5)
	and any state	18/04/2024	67.2	21.9	11.6	23.8	BDL (DL-0.5
		22/04/2024	72.8	26.7	12.9	24,6	BDL (DL4).5
		25/04/2924	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 hm)	2 (Shrs)

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 5OP	Lab SOP	Lab SOP
		01/04/2024	BDE (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)	BULLUL-DAD
		08/04/2024	BDL (DL-0.01)	BDL (DL-0.0005)	BDL (DL-2.0)	BDL (DL-0.03)
0000	Dumerkholi/Nr.	11/04/2024	BDL (DL-0.01)	BDL (DL-0.0005)	BDL (DL-2.0)	BDL (DL-0.03)
AAQ-8	Mining Area	15/04/2024	BDL (DL-0.01)	BDL (DL-0.0005)	BDL (DL-2.0)	BDL (DL-0.03)
	Contraction of the second	18,04/2024	BDL (DL-0.01)	BDL (DL-0.0005)	BDI. (DL-2.0)	BDL (DL-0.03)
		22/04/2024	BDL (DL-0.01)	BDL (DL-0.0005)	BDL (DL-2.0)	BDH. (DL-0.03)
	1	25/04/2024	BDL (DL-0.01)	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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BDR
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Test report

Anacon Labs

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

Vidhi Dubey

Deputy Technical Manager

Verified by Snehal Raut

Technical Manager

----End of Report----

Authorized Signatory

Gam

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

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Test Report

Report No.: AN/FE/2024/2-9			Date: 30/04/2024
	M/s Hindalco Indu	W. O. No.	
Name and Address of Industry:-	Tatijharia, Post Jamira, Tehsil: Samri (Kusmi), District: Balrampur (C.G)		13562310264/17.05.2024
Sample Description/Type	Fugitive Emission	Sample Ref. No.:-	ALPL/22042024/ENV-127/1- FE-1 to 2
Sample Drawn By:-	Anacon Representative	Sample Inward Date	15/04/2024 & 29/04/2024
Test Started On:-	15/04/2024 & 29/04/2024	Test Completed On:-	16/04/2024 & 30/04/2024
Sampling Procedure	ANtd/7.2/Mon-01		

Fugitive Emission Report-April-2024

SL No.	Location Name	Date of sampling	TSPM µg/m ³	RPM µg/m ³	Date of sampling	TSPM (µg/m²)	RPM µg/m ²
	м	ethod Reference	15 5182 (Part 23)		Method Reference	15 5182 (Part 23)	
		03/04/2024	594	136	17/04/2024	627	147
FE-1	Piprapat/Nr. Mining Area	05/04/2024	1728	164	20/04/2024	703	168
11-1	riprapatist, sunning strea	09/04/2024	571	192	24/04/2024	652	153
		12/04/2024	463	176	27/04/2024	591	141
Average 1	Value of FE-1		564	167		643	152
		03/04/2024	873	194	17/04/2024	703	168
FE-2	Tatijharia Village/	05/04/2024	901	176	20/04/2024	804	176
11.0	Nr. Weigh Bridge	09/04/2024	864	157	24/04/2024	709	164
		12/04/2024	709	196	27/04/2024	694	147
Average	Value of FE-2		837	181		728	164
		03/04/2024	539	103	17/04/2024	646	138
FE-3	Khinpat/ Nr. Mining Area	05/04/2024	472	94	20/04/2024	703	192
	Kumpate (VI. Mining Area	09/04/2024	461	83	24/04/2024	591	163
		12/04/2024	526	101	27/04/2024	627	176
Average	Value of FE-3		500	95		642	167
	MoEF & CC Norms:	+++	1200 µg/m ³	1944 - Carel		1200 µg/m ³	***

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Remark: - All Results are within Limit as per MoEF & CC Norms.

Verified by Ø4 me Snehal Raut

Technical Manager

---- End of Report----

Authorized Signatory

Gan

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





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Test Report

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Ambient Air Quality-July-2024

Report No.:-	ALPL/05082024/3-1	Report Date:-	05/08/2024
Issued to :-	M/s Hindalco Industries Limited	Address:-	Tatijharia, Post Jamira, Tehsil Samri(Kusmi), District: Balrampur (C.G)
Type of Work:-	Ambient Air Quality (Core Zone)	Sample Inward No.	ALPL/22072024/MON-268-EAAQ-3/64-1
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 ¹	Carbon Monoxide (as CO) mg/m ³
	Test Method		IS 5182 (Part 23)	USEPA-40(Part 50)	15:5182(Part-2)	IS:5182 (Part-6)	15:5182 (Part-10)
I. Discipline: Chemical		al	Group: Atmospheric Pollution		Material	: 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 (LOQ-0.5)
	na constante a la constante de	10/07/2024	56.1	18.3	9.2	17.2	BLQ (LOQ-0.5)
AAQ-1	Tatijharia Village/	13/07/2024	53.6	16.4	8.4	16.7	BLQ (LOQ-0.5)
AAQ-1	Nr.Weigh Bridge	17/07/2024	48.2	15.9	7.6	16.1	BLQ (LOQ-0.5)
	St 12	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)
NAAQMS Standards		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/m³	Arsenic as As ng /m ³	Chromium as Cr µg/m ³
	Test Method		ANtr/7.2/RE5- INORG/04	ANit/7.2/RE5- INORG/04	ANtr/7.2/RES- INORG/04	ANtr/7.2/RES- 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)	8LQ (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-0.00)
AAQ-1	Tatijharia Village/	13/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
002-1	Nr.Weigh Bridge	17/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	8LQ (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)	HLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
	NAAQMS Standard	İs	1.0 (24 hrs)		6.0 (annual)	

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

Verified by



Soehal Raut Technical Manager

----End of Report----

Authorized Signatory

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Ambient Air Quality-July-2024

Report No .:-	ALPL/05082024/3-2	Report Date:-	05/08/2024
Issued to :-	M/s Hindalco Industries Limited	Address:-	Tatijharia, Post Jamira, Tehsil Samri(Kusmi), District: Balrampur (C.G)
Type of Work:-	Ambient Air Quality (Core Zone)	Sample Inward No.	ALPL/22072024/MON-268-EAAQ-3/64-2
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		

Sr. No.	LOCATION	Date of sampling	Particulate Matter (PM10) µg/m ³	Particulate Matter (PM2.5) µg/m ¹	Sulphur dioxide µg/m³	Oxides of Niteogen µg/m ³	Carbon Monoxide (as CO) mg/m ³
	Test Method		IS 5182 (Part 23)	USEPA-40(Part 50)	15:5182(Part-2)	1S:5182 (Part-6)	IS:5182 (Part-10)
L	Discipline: Chemical	in the second second	Group: Atmos	oberic Pollution	Material or Produ	act tested : Ambient	Air
		03/07/2024	54.3	15.9	7.6	16.8	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	BLQ (LOQ-0.5)
AAQ-2	Nr. Mining Area	17/07/2024	54.1	16.7	8.4	17.9	BLQ (LOQ-0.5)
		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 Standard	ls	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 /m³
	Test Method		ANtr/7.2/RE5- 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 (LOQ-0.0005)	BLQ (LOQ-2.0)	IILQ (LOQ-0.03)
		10/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
	Piprapat/	13/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
AAQ-2	Nr. Mining Area	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)	BLQ (LOQ-0.00)
	NAAQMS Standard	5	1.0 (24 hrs)		6.0 (annual)	

NOTES:

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

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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/7.405).

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

Verified by

Pradnya Pillowan

Snehal Raut Technical Manager

Deputy Technical Manager

Authorized Signatory

hinmay Garway Deputy Quality Manager -----End of Report-----

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Ambient Air Quality-July-2024

Report No .:-	ALPL/05082024/3-3	Report Date:-	05/08/2024
Issued to :-	M/s Hindalco Industries Limited	Address:-	Tatijharia, Post Jamira, Tehsil Samri(Kusmi), District: Balrampur (C.G)
Type of Work:-	Ambient Air Quality (Core Zone)	Sample Inward No.	ALPL/22072024/MON-268-EAAQ-3/64-3
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	

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)	15:5182(Part-2)	15:5182 (Part-6)	IS:5182 (Part-10)
L	Discipline: Chemica	4	Group: Atmosp	oheric Pollution	Material or Produ	uct 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)
	Virhorepat	13/07/2024	61.8	21.7	11.3	23.7	BLQ (LOQ-0.5)
AAQ-3	vimorepat	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	BLQ (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	BLQ (LOQ-0.5)
	NAAQMS 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 /m³	Mercury as Hg µg /m ¹	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	03/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.05)
		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)
440.2	Michaeronat	13/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
AAQ-3	Virhorepat	17/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
	- 9	20/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
-	- 13	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 Standard	5	1.0 (24 hrs)		6.0 (annual)	

NOTES:

Phase we watermark "Original Test Report" to confirm the authenticity of this report.

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

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RUQ= 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:MIN).

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

Snehal Raut

Sneffal Raut Technical Manager

Pradnyn Pillewar Deputy Technical Manager

----End of Report----

Authorized Signatory Chinmar 1 Jarway saty Quality Manager

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Ambient Air Quality-July-2024

Report No .:-	ALPL/05082024/3-4	Report Date:-	05/08/2024
Issued to :-	M/s Hindalco Industries Limited	Address>	Tatijbaria, Post Jamira, Tehsil Samri(Kusmi), District: Balrampur (C.G)
Type of Work:-	Ambient Air Quality (Core Zone)	Sample Inward No.	ALPL/22072024/MON-268-EAAQ-3/64-6
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	N

Sr. No.	LOCATION	Date of sampling	Particulate Matter (PM10) µg/m ³	Particulate Matter (PM2.5) µg/m ³	Sulphur diaxide µg/m ³	Oxides of Nitrogen µg/m ³	Carbon Monoxide (as CO) mg/m ³
	Test Method	10	15 5182 (Part 23)	USEPA-40(Part 50)	15:5182(Part-2)	15:5182 (Part-6)	IS:5182 (Part-10)
L	Discipline: Chemi	ical	Group: Atm	ospheric Pollution	Material	or Product tested	1 Ambient Air
		03/07/2024	54.6	16.1	11.6	21.4	BLQ (LOQ-0.5)
		06/07/2024	47.3	15.9	9.2	18.3	BLQ (LOQ-0.5)
		10/07/2024	51.7	21.8	12.1	23.6	BLQ (LOQ-0.5)
AAQ-4	Vhimmet	13/07/2024	53.9	23.1	11.7	21.8	BLQ (LOQ-0.5)
ang-a	Khinpat	17/07/2024	48.3	19.2	9,6	19.3	BLQ (LOQ-0.5)
		20/07/2024	51.2	21.7	12.6	23.7	BLQ (LOQ-0.5)
		24/07/2024	47.6	17.3	8.3	16.8	BLQ (LOQ-0.5)
		27/07/2024	43.9	16.4	9.2	16.2	BLQ (LOQ-0.5)
ji	NAAQMS Standa	ards	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
		03/07/2024	INLQ (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)
AAQ-4	Khinpat	13/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
	Khinpat	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-(1.03)
		27/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
urain-	NAAQMS Standa	rds	1.0 (24 hrs)		6.0 (annual)	

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

Verified by

Snebal Raut Technical Manager

Pradmira Pillewan Deputy Technical Manager

----End of Report----

Authorized Signatory Chinmay Garway Deputy Quality Minagi

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Ambient Air Quality-July-2024

Report No.:-	ALPL/05082024/3-5	Report Date:-	05/08/2024
Issued to :-	M/s Hindalco Industries Limited	Address:-	Tatijharia, Post Jamira, Tehsil Samri(Kusmi), District: Balrampur (C.G)
Type of Work-	Ambient Air Quality (Buffer Zone)	Sample Inward No.	ALPL/22072024/MON-268-EAAQ-3/64-5
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		

Sr. No.	LOCATION	Date of sampling	Particulate Matter (PM10) µg/m ⁸	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)	15:5182 (Part-6)	15:5182 (Part-10)	
L.	Discipline: Chen	nical	Group: /	Atmospheric Pollution	Mater	ial or Product tes	ted : 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)	
AAQ-5	Kutku Village/	11/07/2024	54.1	16.4	8.1	16.2	BLQ (LOQ-0.5)	
und-a	Nr. V.T. Center	15/07/2024	53,6	23.8	11.4	21.9	BLQ (LOQ-0.5)	
		18/07/2024	54.7	19.1	93	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/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	ANtt/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-0.03)
		04/07/2024	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)	8LQ (LOQ-2.0)	BLQ (LOQ-0.03)
AAQ-5	Kutku Village/	11/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
und a	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)	

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

Verified by

Snehdl Raut

Snehal Raut Technical Manager

Pradnyn Pillewan Deputy Technical Manager

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

Authorized Signatory hinmay Gard Navy aty Quality Manager

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Ambient Air	Quality-	July-2024
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Report No .:-	ALPL/05082024/3-6	Report Date:-	05/08/2024
Issued to :-	M/s Hindalco Industries Limited	Address:-	Tatijharia, Post Jamira, Tehsil Samri(Kusmi), District: Balrampur (C.G)
Type of Work:-	Ambient Air Quality (Buffer Zone)	Sample Inward No.	ALPL/22072024/MON-268-EAAQ-3/64-6
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	**************************************	

Sr. No.	LOCATION	Date of sampling	Particulate Matter (PM30) µg/m ⁸	Particulate Matter (PM2.5) µg/m ³	Sulphur diaxide 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)	15:5182(Part-2)	15:5182 (Part-6)	15:5182 (Part-10)	
1.	Discipline: Chem	nical	Group: /	Atmospheric Pollution	n Mater	rial or Product tes	ted : Ambient Air	
		01/07/2024	56.1	26.1	11.6	23.9	BLQ (LOQ-0.5)	
			04/07/2024	47.3	24.9	97	18.3	BLQ (LOO-0.5)
			08/07/2024	51.8	18.3	8.4	16.4	BLQ (LOQ-0.5)
AAQ-6	Dhandiapat/	11/07/2024	56.2	23.7	11.9	21.8	BLQ (LOQ-0.5)	
und a	Nr. Mining Area	15/07/2024	49.3	19,1	9,7	18.3	BLQ (LOQ-0.5)	
	In the second second second	18/07/2024	46.7	18.3	8.4	17.6	BLQ (LOQ-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/m³	Mercury as Hg µg/m ³	Arsenic as As ng /m ³	Chromium as Cr µg/m ¹
	Test Method		ANtr/7.2/RES- INORG/04	AN#/7.2/RES- INORG/04	ANtr/7.2/RES- INORG/04	ANtr/7.2/RE5- INORG/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)	8LQ (LOQ-0.03)
		08/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
AAO-6	Dhandiapet/	11/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	8LQ (LOQ-0.03)
	Nr. Mining Area	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)	****

NOTES: • Plasse use watermark "Orginal Test Report" to confirm the authenticity of this sepont. • 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. • IUQ+ below limit of quantification . LOQ+ limit of quantification. • Environmental rendition - Satisfactory. • Statement of conformity issued on the basis of decision rule as per quality procedure (QP/2.805). Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by

Snebal Raut Technical Manager

PradnyA Pillewan Deputy Technical Manager

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



Thank you for institling your trust and faith in our services. We obertah 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 towards emuning that your next experience will be significantly befor than the current one, we welcome your feedback on feedback@anacon.in.



Anacon Laboratories Pvt, Ltd. Nagpur Lab ♥ FP-34, 35,Food Park, Five Star Industrial Estate, MIDC Butibori, Nagpur, Maharashtra, India - 441 122 ↓ + 91 8045685558 Email : Info@anacon.in ♥ https:// www.anaconiaboratories.com

Test Report

Page 1 of 1

Ambient Air	Quality-J	uly-2024
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Report No .:-	ALPL/05082024/3-7	Report Date:-	05/08/2024
Issued to :-	M/s Hindalco Industries Limited	Address:-	Tatijharia, Post Jamira, Tehsil Samri(Kusmi), District: Balrampur (C.G)
Type of Work:-	Ambient Air Quality (Buffer Zone)	Sample Inward No.	ALPL/22072024/MON-268-EAAQ-3/64-7
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	dennormenter Brooken andere sein	and the second se

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		IS 5182 (Part 23)	USEPA-40(Part 50)	15:5182(Part-2)	15:5182 (Part-6)	15:5182 (Part-10)
1,	Discipline: Chem	ical	Group: /	Atmospheric Pollution	Mater	ial 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)
AAQ-7	Dumerkholi/	11/07/2024	56.2	19.3	8.7	16.4	BLQ (LOQ-0.5)
MAQ.	Nr. Mining Area	15/07/2024	63.9	16.2	7.6	15.9	BLQ (LOQ-0.5)
	100000000000000000000000000000000000000	18/07/2024	58,2	23.6	11.3	18.2	BLQ (LOQ-0.5)
		22/07/2024	37.2	21.4	12.4	21.8	BLQ (LOQ-0.5)
	25/07/2024	49.1	18.3	9.3	17.3	BLQ (LOQ-0.5)	
N	AAQMS Standard	İs	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 /m³
	Test Method		ANtr/7.2/RES- INORG/04	ANit/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-0.03)
		04/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
	Press and an and the	08/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
AAQ-7	Dumerkholi/	11/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
anger	Nr. Mining Area	15/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
	a second s	18/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
		22/07/2024	BLQ (LOQ-6.2)	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)	

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

Verified by

Pradm

Snehal Raut

Snehal Raut Technical Manager

Deputy Technical Manager

Pillows

-----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 hard work in making sure that you get a seamless experience at every stage of your interaction with us. In our constant endeavor lowerds 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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Report No .:-	ALPL/05082024/3-8	Report Date:-	05/08/2024
Issued to :-	M/s Hindalco Industries Limited	Address:-	Tatijharia, Post Jamira, Tehsil Samri(Kusmi), District: Balrampur (C.G)
Type of Work>	Ambient Air Quality (Buffer Zone)	Sample Inward No.	ALPL/22072024/MON-268-EAAQ-3/64-
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	The second second second second second second second second second second second second second second second s	the second second second second

Ambient Air Quality-July-2024

Sr. No.	LOCATION	Date of sampling.	Particulate Matter (PM30) µg/m ³	Particulate Matter (PM2.5) µg/m ³	Sulphur dioxide ug/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)	IS:5182 (Part-10)
L.	Discipline: Chemic	al	Group: Atmospheric Pollution		Material	Ambient Air	
		02/07/2024	58,3	24.9	11.6	18.3	IILQ (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)
AAQ-8	Sairaidh Campus	12/07/2024	49.3	18.3	9.3	18.6	IILQ (LOQ-0.5)
ning o	Sintation Campus	16/07/2024	51.6	19.3	13.4	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	93	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/m³	Mercury as Hg µg/m³	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	ANtr/7.2/RES- 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)
AAQ-8	Sairaidh Campus	12/07/2024	BLQ (LOQ-0.2)	BLQ (LOQ-0.0005)	BLQ (LOQ-2.0)	BLQ (LOQ-0.03)
	contraction contribution	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)	

NOTES: • Please see watermark "Original Text Report" to confirm the authenticity of this report. • Results shall be referred to tested sample(s) and applicable to tested parameters only. • Text report shall not be reproduced except in full without prior written approval of Aracos Lals. • BLQ+ below limit of quantification . LOQ+ limit of quantification. • Environmental condition - Satisfactory. • Statement of confermity issued on the basis of decision rule as per quality procedure (QP/7.605). Remark: - All Results are within Limit as per NAAQMS Standards.

Verified by

that Raut Technical Manager

Pradnya Pillewan Deputy Technical Manager

---- End of Report----



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Test Report

Report No.: AN/FE/2024/3-9	Report No.: AN/FE/2024/3-9				
M/s Hindalco Industries Limited		W. O. No.			
Name and Address of Industry:-	U	Tatijharia, Post Jamira, Tehsil: Samri (Kusmi), District: Balrampur (C.G)			
Sample Description/Type	Fugitive Emission	Sample Ref. No.:-	ALPL/22072024/MON-268= EFE-3/24-1 to 2		
Sampling done by	Anacon Representative Mr. Kailash Chahande	Sample Inward Date	22/07/2024 & 29/07/2024		
Test Started On:-	23/07/2024 & 30/07/2024	Test Completed Oni-	24/07/2024 & 31/07/2024		
Sampling Procedure	ANtd/7.2/Mon-01				

Fugitive Emission Report-July-2024

SI. No.	Location Name	Date of sampling	TSPM µg/m ³	RPM µg/m ³	Date of sampling	TSPM (µg/m ³)	RPM µg/m ³
	м	lethod Reference	15 5182 (Part 23)		Method Reference	15 5182 (Part 23)	
		03/07/2024	427	116	17/07/2024	594	127
FE-1	Discourse Mar Allerton Anna	06/07/2024	538	121	20/07/2024	609	132
FE-1	Piprapat/Nr. Mining Area	10/07/2024	494	109	24/07/2024	473	91
		13/07/2024	503	92	27/07/2024	481	76
Average 1	Value of FE-1		491	110		539	107
	2	03/07/2024	571	116	17/07/2024	652	128
FE-2	Tatijharia Village/	06/07/2024	497	103	20/07/2024	581	116
10-4	Nr. Weigh Bridge	10/07/2024	529	108	24/07/2024	617	109
		13/07/2024	638	121	27/07/2024	652	124
Average '	Value of FE-2		559	112	-	626	119
		03/07/2024	486	116	17/07/2024	527	129
TE 9	White set the build and a set	06/07/2024	503	128	20/07/2024	493	107
FE-3	Khinpat/ Nr. Mining Area	10/07/2024	581	121	24/07/2024	471	118
		13/07/2024	476	97	27/07/2024	398	82
Average	Value of FE-3		512	116		472	109
	MoEF & CC Norms:		1200 µg/m ³			1200 µg/m ³	

NOTES:
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Results shall be referred to tested sample(s) and
applicable to tested parameters only.
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Remark: - All Results are within Limit as per MoEF & CC Norms.

Verified by Snehal Raut

Technical Manager

----End of Report----

Authorized Signatory Chinmay Guway Deputy Quality Manager



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ADITYA BIRLA HINDALCO

Annexure-G

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

apped

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-H

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.

Annexure-I





tin, sun tinge mide sent 20771-5533465 · Email gopsisswa@yshoo.com, ambikavan@gmail.com