

Ref. HIL/KBM/MoEF&CC/1144/2023

To,

The Addl. Principal Chief Conservator of Forest (Central), Ministry of Environment & Forest and Climate Change, Regional Office (WCZ) Ground Floor, East Wing, New Secretariat Building, Civil Line, Nagpur-440001 (MS)

Sub: - Status of compliance of EC condition (Half yearly status of compliance report) in respect of Kudag Bauxite Mine (Lease area- 377.116 Ha.) of M/s Hindalco Industries Limited of Chhattisgarh state for the period from April - September 2023.

Ref No: - Environment Clearance Letter No-J-11015/354/2007-IA. II (M) dated July 27, 2007

Dear Sir.

We do herewith submit half yearly status of EC compliance report in respect of Kudag Bauxite Mine, Lease area - 377.116 Ha, of M/s Hindalco Industries Limited P.O- Kusmi, Dist.- Balrampur- Ramanujgani, Chhattisgarh state, PIN-497224 for the period from April – September 2023. The lease details is as below: -

Lease area	Production Capacity	Lease Period
377.116 На.	60000 Tonnes	24.12.1996 to 23.12.2046 (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

(Vijay Chauhan)

Agent of Mines Samn Mines Division Hindalco Industries Ltd

Agent of Mines

E-Mail – chauhan.vijaykumar@adityabirla.com

Date: 29-11-2023

Kudag Bauxite Mines (377.116Ha. Capacity-0.6LTPA),

Name of the Project : M/s Hindalco Industries Ltd

Environment Clearance No

: J-11015/354/2007 - IA.(IIM) dated 27.07.2007

& date

Period of compliance Report : 1st April 2023 to 30th September 2023

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. The company shall provide authenticated list of flora & fauna separately for core and buffer zone indicating schedule of species.

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 meters below. Piezometer has been installed at strategic location in the lease area to monitor the Ground water level, the average depth of which is 30-35m. 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. We undertake that no mining operation is being and will be carried out below the water table.

Condition-5: Top soil, if any shall be stacked properly with proper slope with adequate safeguards and shall not be used reclamation and rehabilitation of mined out area.

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



Top Soil Spreading for Backfilling

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 28°. 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. Small old inactive OB dump has been stabilized by vegetation with suitable native species to prevent erosion and surface run off.



Old Inactive Dump 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 settling of silt material. Sedimentation pits shall be constructed at the corners of the garlands drains and desilted at regular intervals.

Reply to Condition 7: Garland drain is provided to arrest silt and sediments flows from above mentioned OB dump. At present there is no any active OB dump. Entire waste generated during mining operation is being simultaneously backfilled in the mined out pit. Old inactive OB dump has been stabilized by vegetation. Garland drains & Parapet wall of appropriate size, gradient and length have been made around the active mining pits coupled with arrester to arrest silt from runoff and drains are being maintained. The drains are regularly desilted before the monsoon. The Water so collected is being used for green belt development and in sprinkling of the Haul Road. Sump of adequate capacity is also developed.





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

Reply to Condition 8: There is no natural water course inside the lease area. However, we undertake that we will not obstruct any natural water course due to mining operation.

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.

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

Condition-10: Plantation shall be raised in an area of 44.69 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: We have already achieved the target area asked for plantation. However, we are continuing the plantation to restore the biodiversity. From April-2023 to September-2023 total 4170 nos. of saplings have been planted over an area of 1.105ha. and in total till now about 58.893ha. area has been afforested with approx. 143615 nos. of saplings.

The density is being maintained about 2500 plant per hectare with the species like Amla, Kashia Samia, mango, babul, pears & guava etc. Moreover, Ragi (Maduwa) agriculture farming has been done on over about 0.44 ha. of reclaimed area. Social forestry is also being encouraged among the local villagers. Apart from that local food grain Ragi (Maduwa) & Tau has been planted over the reclaimed area of 1.000 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: The ground water table does not intersect our mining operation because of shallow depth of mining. Piezometer has been installed at strategic location in our lease area for monitoring the ground water level, the average depth of which is 30-35m. However, Rain water harvesting structure (Ponds and Wells) has been constructed as conservation measures in mined out area for the conservation/augmentation of ground water resources.





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 portable water tanker in the mine lease hold area is being carried out regularly to control air pollution. The ambient air quality is within the stimulated pages.

the stipulated norms.



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: Ground water quality monitoring is being carried out regularly on quarterly basis. The analysis reports are being submitted to CECB, Raipur. Regular monitoring of ground water level is being carried out by piezometer installed at strategic location-in the lease area and is found below the level of mining operation. The ground water Quality report and the GW level data is attached in *Annexure* – 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: Rain water harvesting ponds has been made at lease hold area.

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 CGWA vide letter no. CGWA/NOC/MIN/REN/2/2023/7570, dated 03-04-2023 valid up to 28-04-2025 for domestic/drinking purpose. The approval copy 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. Important measures we are taking 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.
- 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.

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

Reply to Condition 18: A copy of report has been submitted to ministry. As a part of CSR activities, company has formed SHG group to facilitate promotion of economic opportunity to local indigenous people. As of date we have 12 No. of SHGs with 120 beneficiaries who are directly engaged in Income generation activities. Detailed latest CSR report is enclosed as *Annexure F*.

Condition-19: The company shall implement occupational health and safety measures for the workers and engage a qualified doctor who is trained in occupational health surveillance.

Reply to Condition 19: Company has provided to all workers with personal protective equipment and training are also being imparted to them for safety & health in our Group vocational training center. One doctor having MBBS qualification has been appointed for facilitation of OHS. All employees working in the mine have been under gone through medical test as per Mines ACT-1952.





Safety Talk before execution of the Job & PME Copy

Condition-20: 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 20: 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 27 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/scheme) prepared for the mine is being followed.

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

Reply to Condition 3: 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) 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.

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 the guideline and is being followed. For this purpose, we have already appointed a NABL accredited laboratory M/s. Anacon Laboratories Pvt. Ltd. for conducting regular environmental monitoring. Analysis Report (from April-September 2023) is enclosed as *Annexure-G*.

Condition-5: Data on ambient air quality (RPM, SPM, SO₂, 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 are being submitted to other regulatory authorities as per guidelines. Ambient air quality report for the month April – September 2023 is enclosed as *Annexure-G*.

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

Reply to Condition 6: 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 emission.



Black top access road to the mines

Condition-7: Measures shall be taken for control of noise levels below 85dBA in the work environment. Workers engaged in operations of HEMM, etc. shall be provided with ear plugs / muffs.

Reply to Condition 7: The noise level in working area is being maintained below the prescribed limit. As protective measures, Workers engaged in operations of HEMM, etc. is being provided with ear plugs / muffs. The proper maintenance of HEMM is being carried out to control noise emission.

HEMM Spot Noise Level (dB(A) Leq) Monitoring

		July-2023		August-2023		September-2023	
Sl. No.	Location	Min.	Max.	Min.	Max.	Min.	Max.
1.	Nr. Weigh Bridge	62.7	68.1	67.2	71.3	67.2	71.6
2.	Mining Area	57.1	63.8	59.7	64.8	59.3	64.1

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

Reply to Condition 8: There is no waste water generated from the mining operation. So, there is no liquid discharge from mine. A minimal quantity of waste water generated from workshop during vehicle maintenance, for which oil and grease separation pits are provided for the treatment. The treated water is being used for dust suppression in haul road.

Condition-9: Personal 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. All employees undergo Lung Function Tests during the Periodical 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-H*.

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: Since this is an operational mine, the Financial closure plan not applicable now. When applicable we will strictly follow the condition.

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 the detail Expenditure is attached as *Annexure-J*.

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

Reply to Condition 14: Financial closure plan not applicable as it is an operational mines.

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 in our area. The copy of same has been already 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 new papers Hari Bhumi & Ambika Vani. The copy of same has been already submitted to your good office. Copy of News paper clip is enclosed in *Annexure I*.

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

EC Compliance for Kudag Bauxite Mine (Mine Lease Area of 377.116 Ha), Village - Kudag, Bata, Rajendrapur, Tehsil - Kusmi, District - Balrampur-Ramanujganj, State - Chhattisgarh

M/s. Hindalco Industries Limited Compliance Period: April-2023 to September-2023

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.`

Hope the above compliance will be found in order.

Yours truly,

(For Hindalco Industries Limited)

(Vijay Chauhan)

Samn Mines Division Hindalco Industries Ltd

Agent of Mines

Encl.: As above

कार्यात्रक प्रवास मुख्य वंज संस्थाक (क्वागणी प्रबंधन एवं जंब विद्याता संस्थाण सह मुख्य वर्ष्यपणी अभिरक्षक), छत्तीसगढ

अरण्य भावन, में अकल कॉलेज रांड, रायप्र

ें ऐस - pecfwt/g/sity.com

(Ph 0771-2552228, Fax 0771-2552227)

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रायपुर दिनांक ७ 🗸 /10 /2013

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संचालक, इन्वायरनमेंट क्लीयरेंश सेल भारत सरकार, वन एवं पर्यावरण मंत्रालय, पर्यावरण भवन, सी.जी.ओ. काम्प्लेक्स, लोधी रोड. नई दिल्ली—111003

विषय:- छत्तीसगढ़ के बलरामपुर जिले (तत्कालीन सरगुजा जिला) में स्थित सामरी बॉक्साईट माईन्स, कुदाग बॉक्साईट माईन्स एकं टाटीझरिया बॉक्साईट माईन्स की क्षमता बढ़ाये हेतु ईन्वायरमेंट क्लीयरेंस।

संदर्भ:- 1. पर्यावरण व वन मंत्रालय, मारत सरकार का पत्र क्रमांक J-11015/353/2007-IA.II(M) दिनांक 27 जुलाई 2007.

 पर्यावरण व वन मंत्रालय, मारत संरकार का पत्र क्रमांक J-11015/337/2007-IA.II(M) दिनांक 27 जुलाई 2007.

3. पर्यावरण व वन मंत्रालय, भारत सरकार का पत्र क्रमांक J-11015/337/2007-IA.II(M) दिनांक 9 अगस्त 2007.

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कृपया आपके उपरोक्त संदर्भित पत्रों का अवलोकन करने का कष्ट करें। जिसके द्वारा बलरामपुर जिले (पुराने सरगुजा जिले) के सामरी बॉक्साईट खुली खदान (1 LTPA) की क्षमता बढ़ाकर (SLTPA) करने, कुदाग बॉक्साईट खदान (0.4 LTPA) की क्षमता बढ़ाकर (0.6 LTPA) करने तथा टाटीझरिया बॉक्साईट खदान (0.5 TPA) की क्षमता बढ़ाकर (4 TPA) करने के परियोजना प्रस्ताव के संबंध में वन्य प्राणी (संरक्षण) अधिनियम, 1972 के तहत अनुसूची—1 के वन्यप्राणियों हेतु "वन्य प्राणी संरक्षण व प्रबंधन योजना" तैयार की जाकर इस कार्यालय की सहमति दिये जाने का लेख किया है।

1. विषयांकित परियोजना हेतु खदान के लीज के अनुबंध दिसंबर 1996 एवं जून 1998 में हस्ताक्षरित हुये थे। सामरी क्षेत्र में भारत सरकार पर्यावरण व वन मंत्रालय के आदेश क्रमांक J-11015/353/2007-IA.II/M दिनांक 27 जुलाई, 2007 द्वारा 2146.746 है. में, कुदाग क्षेत्र में भारत सरकार पर्यावरण व वन मंत्रालय आदेश क्रमांक J-11015/354/2007-IA.II/M दिनांक 27 जुलाई 2007 द्वारा 377.116 है. में, तथा टाटीझरिया में भारत सरकार पर्यावरण व वन मंत्रालय के आदेश क्रमांक J-11015/337/2007-IA.II/M दिनांक 9 अगस्त 2007 द्वारा 1218.762 है. में बॉक्साईट खनन की स्वीकृति प्राप्त कर संस्था द्वारा खनन का कार्य किया जा रहा है।

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किया जाना, कुदाग के लिए 0 1 1010 के 1010 पर 1010 LPTA किया जाना एवं लालेक्ट 50 LPTA किया जाना, कुदाग के लिए 0 1 1010 के 1010 LPTA किया जाना एवं लालेक्ट 50 LPTA किया जाना प्रतिक्रित क्षेत्र है। भारत सरकार पर्यावरण व वन मंत्रालय के द्वारा उपरोबंध निवास के 11015/353/2007-IA.II/M दिनांक 77 जुलाई 2007 एवं 1-11015/337/2007-IA.II/M दिनांक 9 अगरत 2007 द्वारा कुछ शर्तों 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 संरक्षा द्वारा एक बन्य प्राणी संरक्षण योजना तैयार की गयी है।

3. 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 रूप से वन्य प्राणी संरक्षण व प्रबंधन योजना तैयार की जाकर महाप्रबंधक, (खादान), हिन्डालको इन्डस्ट्रिज के पत्र क्रमांक HIL/SAM/300/2013 दिनाक 2.03.2013 द्वारा प्रस्तुत किया गया है जिसका समग्र रूप 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 अनेक्सर—4 के में उल्लेखित किया गया है।

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 पाँच, वर्ष 2009-10 में छैं: एवं 2010-11 में 4 जनहानि व जनघायल के प्रकरण तथा वर्ष 2007–08 तथा 2008–09 में तेंदुआ द्वारा पशु हानि के दो प्रकरण तथा लकड़बग्घे के कारण एक प्रकरण दर्ज किये गये हैं। इस प्रकार वन्य प्राणी (संरक्षण) अधिनियम के शेंड्यूल 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 संघधित मुख्य गतिविधियों का विवरण निम्नानुसार 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 गतिविधियाँ, स्थानीय ग्रामीणों के लिये आजीविक्यू सृजन, टीकाकरण, जनजागृति कार्यकम जैसी गृतिविधियों का

समावेश करते हुये 04 वर्षों के लिय गरिष क्षण कर आफ प्रत्यानित की गयी है। जिसका क्रियान्ययन वन विभाग के द्वारा किया जायेगा। प्रस्तान ग्रंपानश्रीकान का वा विवरण निन्नानुसार है —

Sr.	Works to be done			17 Years (Rs. In taki	15)	Remarks
10-		1"	704	1,	40	Total	1212121
1	Plantation including soil and moisture Conservation works as per norms of forest department surrounding the lease hold	5.00	Year 5:00	Ye.a 5,00	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	1
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	
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 the buffer Zone 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	- 447 (A)
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 Biodiversity management committees (BMC's)
			-	Annual Control of the	1		[011103]

कर के विश्व कर है है अपने से हिसाब से वृद्धि होगी। परियोजना के विश्वान्त्रपत के समय जो भी लागत आयेगी वह परियानना परनावनों को बन विभाग में एकमुश्त जमा करानी होगी। जिससे मृत्य वृद्धि के प्रभाव को समाप्त किया जा राजन करानी को बन विभाग में एकमुश्त जमा करानी होगी। जिससे मृत्य वृद्धि के प्रभाव को समाप्त किया जा राजन वन विभाग एकमुश्त जमा की गई राशि से बन्यप्राणी सरक्षण योजना कियान्वित करेगा।

7. अनुमोदित वन्यपाला संउद्याण योजना की एक प्रति सलग्न प्रेषित है। कृपया वन्यप्राणी संरक्षण योजना में प्रावधानित राशि रू. 160.00 लाख एकमुश्त जमा कराने हेतु परियोजना प्रस्तावकों को आदेशित करने का कष्ट करें।

संलग्नः-उपरोक्तानुसार।

(रामप्रकाश) व्यक्ति।3

प्रधान मुख्य वन संरक्षक (वन्यप्राणी)

छत्तीसगढ़, रायपुर रायपुर दिनांक *0 🛨 /10* /2013

पृष्ठां क्रमांक/व.प्रा./प्रबंध-12/13/2968.

प्रतिलिपि:-

- प्रमुख सचिव, छत्तीसगढ़ शासन, वन विभाग, महानदी मंत्रालय भवन, नया रायपुर की ओर मय योजना की प्रति सहित सूचनार्थ प्रेषित।
- 2. श्री एम. के. नार्यंक, जी. एम. माइन्स हिन्डालको ईन्डस्ट्रीज लिमिटेड, सामरी बॉक्साईट माईन्स, पोस्ट-कुसमी, जिला-सरगुजा, छत्तीसगढ़ की ओर मय योजना की प्रति सहित सूचनार्थ प्रेषित।

प्रधान मुख्य वन संरक्षक (वन्यप्राणी) विशेष

3

SAMRI BAUXITE MINE

Annexule - B.

Annexure-6 Details of Flora and Fauna समावेश करते हुये 04 वर्षों के लिए कीए काल करते गाठ प्रत्यानित की गयी है। जिसका क्रियान्वयन वन विभाग के द्वारा किया जायेगा। प्रत्यान गणा भी किया का विवरण निस्तानुसार है -

51.	Works to be done	Consideration of the Constant			As. In lak	ha)	Remarks
la-		1 Year	Year	Year		Total	Haz I
1	Plantation including soil and moisture Conservation works as per norms of forest department surrounding the lease hold	5.00	5.00	4.00	Year 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	
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 the buffer Zone of the mining lease @ 50000/- per centre.	3.00	3.00	3.00	3.00	12.00	<u>x</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	Z .
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 Biodiversity management
			4				committees (BMC's)
	Total	55.00	35.00	35.00	35.00	160.00	- N. W. W.

ANNEXURE-6 DETAILS OF FLORA & FAUNA

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	Mirnosacaae
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
Aristida adscensionsis	Grass	Poaceae
tragrostis biferia	Grass	Poaceae
Fragrostis tenella	Grass	Poaceae
Setarla glauca	Grass	Cyperaceae
Thysanolaena maxima	Grass	Graminae
Parthenium hysterophorus	Congress grass	Compositae
Carsia tora	4 = 1	Caesalpinaceae
Delanix 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. Comn	nerclal Crops (including Veget	ables)	
1	Abelomoschus indicus	Malvaceae	Therophyte
В	Allium cepa	Liliaceae	Geophyte
9	Allium sativum	Liliaceae	Geophyte
10	Annona squamosa	Annonaceae	Phanerophyte
1.1	Arachis hypogia	Fabaceae	Geophyte
12	Catharanthes pusillus	Compositae	Therophyte
1.3	Cicer arietinum	Fabaceae	Hemicryptophyte
1.4	Citrus lemon	Ruataceae	Therophyte
15	Colacasia esculenta	Areaceae	Geophyte
16	Coreandrum sativum	Umbelliferae	Hemicryptophyte
1.7	Daucus carota	Umbelliferae	Geophyte
18	Lycopersicum esculentus	Solanaceae	Therophyte
19	Mangifera indica	Anacardiaceae	Phanerophyte
20	Memordia charantia	Cucurbitaceae	Therophyte
21	Pisum sativum	Fabaceae	Therophyte
2.2	Psidlum guava	Myrtaceae	Phanerophyte
23	Solanum tuberosum	Solanaceae	Geophyte
24	Litchi chinensis	Sapindaceae	Phanerophyte
III. Plant	ations	7	7-7-
= 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. 30	1 CCITITICS	Name			
1	31	- Azadirachta indica		Family	T	120 =
t	32	- Daurillia Variegate		Meliaceae		Life Form
	33	- Dudillilla purpuria		Caesalpinaceae		Phanerophyte Phanerophyte
1	34	Bambusa arundana	ceae	Caesalpinaceae Poaceae		Phanerophyte
1	35	Dutea monosperma	7	Canania		Phanerophyte
	36	Butea frondosa		Caesalpinaceae		Phanerophyte
	37	Eucalyptus sp		Caesalpinaceae Myrtaceae		Phanerophyte
	38	Delonix regia		Caesalpinaceae		Phanerophyte
	IV. Na	Leucena leucophloe		Caesalpinaceae		Phanerophyte
	39	Abrus precatorius	t Type	тосостринаселе	F	Phanerophyte
	40	Abutilon indicum		Fabaceae		
_	41	Acacia Arabica		Malvaceae	1	herophyte
-	42	Acacia auriculiformis		Mimosaceae	P	hanerophyte
-	43	Acacia catechu		Mimosaceae	P	hanerophyte
-	44	Acacia intinsia		Mimosaceae	P	hanerophyte
-	45	Acacia fernacea		Mimosaceae	P	nanerophyte
-	46	Acacia leucophloe		Mimosaceae	PI	naneophyte
	47	Acalypha lanceolata		Mimosaceae	PF	anerophyte
	48	Acanthospermum his	oldum	Euphorbiaceae	Ph	anerophyte
	49 50	- Livialiules aspers	ACCULI (Compositae	110	erophyte
-	51	Addinoda vasica	1	Amaranthaceae	10	erophyte
	52	Adina cordifolia	F	Acanthaceae	The	erophyte erophyte
	53	Aegle marmelos	I B	Rubiaceae	Ph	nerophyte
	54	Aerva lanata	K	utaceae	Ph=	inerophyte
	55	Ageratum conyzoides	0	ompositae ompositae	Pha	nerophyte
	6	Allanthes excela	Si	imaroubaceae	The	rophyte
	7	Alangium salivus	Al	angiceae	Pha	nerophyte
5	8	Albizia odoratissima Albizia procera	Ca	Besalpinaceae	Phai	nerophyte
5	9	Alstonia scholaris	Ca	esalpinaceae	Phar	nerophyte
6	0	Alternanthera sessilis	AD	ocyanaceae	Phar	nerophyte
6	1	Alysicarpus hamosus	An	naranthaceae	Phar	erophyte
62		Anogeissus latifolia	Fat	baceae	Incr	solvte
63		Anogeissus serica	Cor	mbretaceae	Then	ophyte
64		Argemone mexicana	Cor	mbretaceae	Phan	erophyte
65		Azadirachta indica	Pap	evaraceae	Phane	erophyte
66		Barleria prionoites	Mel	iaceae	Phane	erophyte
67		Bidens biternata	Aca	nthaceae	Phane	Prophyte
68		Blepharis asperima	Con	npositae	Thero	phyte
69 70	1	biepharis madarasnata	Acar	nthaceae	Thero	phyte
-	- 1	Diumed lacera	, icui	nthaceae	Thomas	rophyte
72	- 1	Boerheavia chinensis	Com	positae	Therop	onyte
73		overneavia diffusa	Nyca	itaginaceae	Therop Therop	onyte
74	1	Bombax ceiba	Nycta	aginaceae	Therop	nyte
5	1	Borreria hispida	Bomi	bacaceae	Phaner	ophyte
6	P	orreria stricta	Rubia	oceae	Therop	byto
7	0	oswellia serrata	Rubia	raceae	Theropi	hyte
8	P	rassica camprestris	Crucif	erae.	Phanero	Ophyte
9	B	ridelia retusa	Funha	erae Orbiaceae	Theroph	ivte
)	C	ridelia superba	Eupho	rbiaceae	Phanero	phyte
	Ca	esalpina pulcherima	Caesa	pinaceae	Phanero	phyte
	Ca	lotropis procera	Asclini	adaceae	Phanero	phyte
	Ca	nthium diddynum pparis aphylla	Rubiac	Page -	Phanero	phyte
	Ca	oparis deciduas	Cappar	ridaceae	Phaneron	phyte
	Car	rissa carandus	Cappar	idaceae	Therophy	te
	Car	issa spinarium	Apocya	naceae	Phaneron	hyte
	Cas	earia graveolens	Apocya	пасеае	Phanerop	hyte
	LdS	Sia absus	Samydi	aceae	Phaneron	hyte
	Cas.	sia absus	Caesalp	inaceae	Phaneron	hyte
	Cass	sia auriculata	Laesalp	naceae	Phaneropl	ovte
	Cass	Sia occidentalie	Caesalpi	inaceae	Inerophyt	e
	Cass	ila tora	Caesalpi	Паселе	Therophyt	е
	Cest	rum diurnum	Caesalpi	naceae	Inerophyte	0
	Cest	rum noctrunum	Rubiacea Rubiacea	ae -	Phaneroph Theophyte	yte
			I Charles and the second		I December	

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
102	Croton bonplandinum	Amaryllidaceae	Therophyte
103	Cuscuta reflexa	Cuscutaceae	Epiphyte
104	Datura fastulosa	Solanaceae	Therophyte
105	Datura metal	Solanaceae	Therophyte
106	Desmodium triflorum	Asclepiadaceae	Therophyte
107	Diospyros melanoxylon	Lythraceae	Phanerophyte
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 neruri	Euphorbiaceae	Therophyte
118	Euphorbia nivula	Euphorbiaceae	Therophyte
119	Euphorbia piluliflora	Euphorbiaceae	Hemicryptophyte
120	Euphorbia tricauli	Euphorbiaceae	Hemicryptophyte
121	Evolvulus alsinoides	Convolvulaceae	Therophyte
122	Evolvulus numalaris	Convolvulaceae	Therophyte
123	Feronia elephantum	Rutaceae	Phanerophyte
124	Ficus benghalensis	Moraceae	Phanerophyte
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
132	Gardenia lucida	Rubiaceae	Phanerophyte
133	Garuga pinnata	Burseraceae	Phanerophyte
134	Glossocardia bosvellia	Compositae	Hemicryptophyte
135	Gmelina arborea	Rubiaceae	Phanerophyte
136	Gomphrena globosa	Amaranthaceae	Therophyte
137	Gossypium herbaceum	Malvaceae	Therophyte
138	Grewia abutifolia	Tiliaceae	Phanerophyte
139	Grewla salivifolia	Tiliaceae	Phanerophyte
140	Grewia subinaqualis	Tiliaceae	Phanerophyte
141	Gynandropis gynandra	Capparidaceae	Hemicryptophyte
142	Helictris isora	Rubiaceae	Phanerophyte
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
151	Ichnocarpus frutens	Poaceae	Hemicryptophyte
152	Impatiens balasamania	Balsaminaceae	Therophyte
153	Indigofera hirsute	Caesalpinaceae	Therophyte
154	Indigofera limnacea	Caesalpinaceae	Therophyte
155	Indigofera tinctoria	Caesalpinaceae	Therophyte
		Convolvulaceae	Hydrophyte
156	Ipomea aquatica Ipomea coccinea	Convolvulaceae	Therophyte
157		Convolvulaceae	Hemicryptophyte
158 159	Ipomea tuba	Rubiaceae	Phanerophyte
1 200	Ixora arborea	Nublaceae	Phanerophyte

Sr. No.	Technical Name	Family	Life Form
161	Ixora singapuriens	Rubiaceae	Phanerophyte
162	Jasmimum arborens	Oleaceae	Phanerophyte
163	Jatropha gossypifolia	Euphorbiaceae	Therophyte
164	Jussiaea suffraticosa	Onagraceae	Hydrophyte
165	Justia diffusa	Acanthaceae	Therophyte
166	Justicia diffusa	Acanthaceae	Therophyte
167	Lactuca punctata	Compositae	Therophyte
168	Lannea coramandalica -	Anacardiaceae	Phanerophyte
169 .		Anacardiaceae	Phanerophyte
170	Lannea procumbens	Anacardiaceae	Therophyte
171	Lantana camata	Verbinacaee	Phanerophyte
172	Lawsonia inermis	Lythraceae	Phanerophyte
173	Lepidogathis cristata	Acanthaceae	Therophyte-
174	Leptodenia_reticulate	Asclepiadaceae	Phanerophyte
175	Leucas aspera	Labiatae	Therophyte
176	Leucas longifolia	Labiatae	Therophyte
177	Leucas longifolia	Labiatae	Therophyte
178	Leucena leucophloe	Caesalpinaceae	Phanerophyte
179	Linderbergia indica	Scrophulariaceae	Therophyte
180	Lindernbergia ciliate	Scrophulariaceae	Therophyte
181	Lophophora tridinatus	Scrophulariaceae	Geophyte
182	Luffa acutangularia	Cucurbitaceae Solanaceae	Therophyte Therophyte
183	Lycopersicum esculentus	Sapotaceae	The state of the s
184	Madhuca latifolia	Euphorbiaceae	Phanerophyte
185	Mallotus philippinus Malvastrum coramandalicum	Malvaceae	Phanerophyte
186		Anacardiaceae	Therophyte Phanerophyte
187	Mangifera indica	Marseliaceae	
188	Marselia quadrifolia Melia azadirachta	Meliaceae	Phanerophyte Phanerophyte
189		Cucurbitaceae	Therophyte
190	Memordica diocea	Convolvulaceae	Therophyte
191	Merremia emerginata Michaelia champaca	Annonaceae	Phanerophyte
	Millingtonia harter	Bignoniaceae	Phanerophyte =====
193	Mimosa hamata	Mimosaceae	Therophyte
		Rubiaceae	Phanerophyte
195	Mitragyna parviflora	Aizoaceae	Therophyte
196 197	Mollugo cerviana Mollugo hirta	Aizoaceae	Therophyte
198	Moringa oleifera	Moringaceae	Phanerophyte
198	Morus alba	Moraceae	Phanerophyte
200	Mucuna prurita	Papillionaceae	Hemicryptophyte
201	Murraya exotica	Rutaceae	Phanerophyte
202	Murraya koenigii	Rutaceae	Phanerophyte
203	Musa paradisica	Musaceae	Therophyte
204	Nymphia sp	Magnoliaceae	Hydrophyte
205	Ocimum americanum	Labiatae	Therophyte
206	Ocimum-basillum	Labiatae	Therophyte
207	Ocimum_canum	Labiatae	Therophyte
208	Ocimum sanctum	Labiatae	Therophyte
209	Oldenlandia umbellate	Convolvulaceae	Therophyte
210	Oldenlandiua corymbosa	Rubiaceae	Therophyte
210	Oogeinia oojensis	Papillionaceae	Phanerophyte
212	Opuntia dillinii	Opuntiaceae	Therophyte
213	Opuntia elator	Cacataceae	Therophyteq
	Oxalis corniculata	Oxalidaceae	Therophyte
214	Panicum milliria	Poaceae	Hemicryptophyte
216	Panicum notatum	Poaceae	Hemicryptophyte
217	Papaver somniferum	Papaveraceae	Hemicryptophyte
	Parkinsonia aculata	Mimosaceae	Phanerophyte
218	Parthenium hysterophorus	Compositae	Therophyte
		Passifloraceae	Hemicryptophyte
220	Paspalum strobilanthus Passiflora foetida	Passifloraceae	Phanerophyte
221	The state of the s	Malvaceae	Phanerophyte
222	Pavonia zeylanica		Phanerophyte
223	Peltophorum ferrusinum	Caesalpinaceae Palmae	Phanerophyte
224	Phoenix-aculis Phylianthes asperulatus	Euphorbiaceae	Phanerophyte
	PROGRAMMES ASSESSMENT	CHOHOEHIACEAE	The state of the s

227 228 229 230 231	Technical Name	Family	Life Form
229 230	Phyllanthes nirurii	Euphorbiaceae	Therophyte
230	Phyllanthes reticulates	Euphorbiaceae	Therophyte
	Physalis minima	Solanaceae	Therophyte
231	Pithocolobium dulce	Mimosaceae	Phanerophyte
the standard and s	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
241	Saccharum officinarum	Poaceae	Therophyte
242	Salmalia malabarica	Salmaliaceae	Phanerophyte
243	Sapindus emerginatus	Sapindaceae	Phanerophyte
244	Schleichera trijuga	Combretaceae	Phanerophyte
245	Scherebera sweitenoides	Sapindaceae	Phanerophyte
246	Schleichera oleosa	Sapindaceae	Phanerophyte
247	Sesamum-indicum	Pedaliaceae	Hemicountenbute
248	Shorea robusta	Dipterocarpaceae	Hemicryptophyte
248	Sida erientalis	Malvaceae	Phanerophyte
250	Side Language III		Phanerophyte
	Sida vernanifolia	ridivacede	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	Tinospora cordifolia	Rhamnaceae	Therophyte
264	Tragus biflorus	Poaceae	Hemicryptophyte
265	Tribulus terrestris	Zygophyllaceae	Therophyte
266	Tridax procumbens	Compositae	Therophyte
267	Triumferta pilosa	Tiliaceae	merophyte
268	Vernonia cinera	Compositae	Thorophyte
269	The state of the s		Therophyte
of the last resemble	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	nds		
	Apluda mutica	Poaceae	Hemicryptophyte
279	Chloris dolichosta	Poaceae	Hemicryptophyte
	Cyanodactylon sp	Poaceae	Geophyte
280	Dichanthium annulatum	Poaceae	Hemicryptophyte
280 281	Inpurta cylendrica	Poaceae	Hemicryptophyte
280 281 282			The state of the s
280 281 282 283		Poaceae	Hemicryntophyta
280 281 282 283 284	Sachharum spontanseum	Poaceae	Hemicryptophyte
280 281 282 283 284 285	Sachharum spontanseum Themeda quadrivalvis	Poaceae	Hemicryprophyte
280 281 282 283 284 285 286	Sachharum spontanseum Themeda quadrivalvis Aristida adscensionsis	Poaceae Poaceae	Hemicryprophyte Hemicryptophyte
280 281 282 283 284 285 286 287	Sachharum spontanseum Themeda quadrivalvis Aristida adscensionsis Cenchrus ciliaris	Poaceae Poaceae Poaceae	Hemicryprophyte Hemicryptophyte Therophyte
280 281 282 283 284 285 286 287 288	Sachharum spontanseum Themeda quadrivalvis Aristida adscensionsis Cenchrus ciliaris Cenchrus setifgera	Poaceae Poaceae Poaceae Poaceae	Hemicryprophyte Hemicryptophyte Therophyte Therophyte
280 281 282 283 284 285 286 287 288 289	Sachharum spontanseum Themeda quadrivalvis Aristida adscensionsis Cenchrus ciliaris	Poaceae Poaceae Poaceae	Hemicryprophyte Hemicryptophyte Therophyte

Sr. No.	Technical Name	F- 11	
292	Dactylectinium annualatum	Family	Life Form
293	Digetaria bicornis	Poaceae	Therophyte
294	Digetaria Segetaria	Poaceae	Hemicryptophyte
295	Eragrostis biferia	Poaceae	Homici yptopriyte
296	Eragrostis biferia	Poaceae	Hemicryptophyte
297	Eragrostis tenella	agrostis tenella	Therophyte
	Ischaemum rugosum	Poaceae	Therophyte
298	Setaria glauca		Hemicryptophyte
299	Eulaliopsis binata	Fulaliancie his-t	Hemicryptophyte
300	Thysanolaena maxima	Graminae	Hemicryptophyte
	Endangered plants	Graminae	Home t
	y dailes	No endangered plant study period and also Survey of India (Red Plants)	species observed durin from records of Botanica data of Books of India

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

Technical Name	English Name/ Local Name	Wild Life Protection Act
Aves	Local Name	(1972) Status
Phlacrocorax niger	Little	
Nycticorax nycticorax	Little cormorant Night heron	Sch-IV
Ardeola grayii grayii		Sch-I∀
Bubulcus ibis coromandus	Paddy bird	Sch-IV
Eudynamys scolopacea	Cattle egret	Sch-IV
Meops philippinus philippinus	Indian koel	Sch-IV
Dinopium benghalense tehminae	Bluetailed bee-eater	Sch-IV
	Moodpecker	Sch-IV
Acridotheres tristis tristis	Common myna	
Nectarinia minima	Small sunbird	Sch-IV
Passer domesticus indicus	Indian house sparrow	Sch-IV
Butterflies	I sease sparrow	Sch-IV
Hypolimnas bolina Lin.	Greeceagtly	
Euploea core Cramer	Gommon crow	-
Neptis hylas Moore	Common sailor	-
Eurema hecabe Lin.	Common sallor	-
Parantica aglea Stoll.	Common grass yellow	-
Mammals	Glassy tiger	-
Funambulus palmarum	Caulant	
Sus sucrofa	Squirrel	Sch-IV
Herpestes edwardii	Wild pig	Sch-III
/ulpus benghalensis	Common mongoose	Sch-IV
dystrix indica	Wild fox	Sch-II
	Porcupine	Sch-IV

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

Technical Name	English Name/Local Name	
Aves		Wild Life Protection Act
Phlacrocorax niger		(1972)
Ardon pursuinger	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		Sch-IV
Bubulcus ibis coromandus	Large egret	Sch-IV
Milvus migrans govinda	Cattle egret	Sch-IV
Haliastur indus indus	Common pariah kite	Sch-IV
Vanellus indicus indicus	Brahminy kite	
Tringa hypoleucos	Redwattled lapwing	Sch-IV
Calach - II-l	Common sandpiper	Sch-IV
Gelochelidon nilotica nilotica	Gullbilled tern	Sch-IV
udynamys scolopacea	Indian koel	Sch-IV
talcyon smyrnensis fusca	Indian white breasted Kingfischer	Sch-IV
Meops philippinus philippinus	Bluetailed bee-eater	Sch-IV
	1 procedured pee-egfet	Sch-IV

Technical Name		
Coracias benghalensis indica	Southern Indian Roller	(1972) Sch-IV
Dinopium benghalense tehminae	Malabar golden backed Woodpecker	Sch-IV
Acridotheres tristis tristis	Common myna	Sch-IV
Corvus splendens protegatus	Ceylon house crow	Sch-IV
Nectarinia minima	Small sunbird	Sch-IV
Nectarenia, zeylonica sola	Indian purple rumped sunbird	Sch-IV
Arachnothera longirostris	Little spinder hunter	Sch-IV
longirostris		
Passer domesticus indicus	Indian house sparrow	Sch-IV
Copsychus saularis ceyonensis	Southern magpie-robin	Sch-IV
Orthotomus sutorius	Tailor_bird_guzurata	Sch-IV =
Pavocristatus	Peacock	Part-III of Sch-I
Amphibians		
Rana tigriana	Common frog	Sch-IV
Buto melanosticus	Toad	Sch-IV
Reptiles		
Calotes versicolor	Lizard	Sch-IV
Calotes versicolor	Common garden lizard	Sch-IV
Chamaleon zeylanicus	Indian chamaeleon	Sch-II
Lycodon spp.	Wolf snake	Sch-III
Boiga spp.	Cat snake	Sch-III
Bangarus spp.	Krait	Sch-II
Naja naja	Indian cobra	Sch-III
Vipera spp.	Russels viper	Sch-III .
Phyton sp	Python sp	Sch-I
Butterfiles	T ydlerr sp	301-1
Pachliopta hector Lin.	Crimson rose	
Papilio demoleus Lin.	Lime butterfly	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Graphium agamemnon Lin.	Tailed fay	-
Junoria almana Lin.	Peacock pansy	-
Hypolimnas bolina Lin.	Great eagily	-
Euploea core Cramer	Common crow	
Neptis hylas Moore	Common sailor	-
Eurema hecabe Lin.		-
	Common grass yellow	*
Catopsilia sp. Mammals	Emigrant	-
	Dat	
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
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
/ulpus benghalensis	Wild fox	Sch-III
delsurus ursinus	Bear	Sch-III
fystrix indica	Porcupine	Sch-IV
xis axis 🗸	Spotted deer	Sch-III
anis lupaspallipes	Indian wolf	Part-I of Sch-I
Meliivora capensis	Indian Ratel	Part-I of Sch-I
Tephas maximas	Indian Elephant	Part-I of Sch-I
elis chaus	Jungle cat	Part-II of sch-II
man a second and the second		FOLU-II OF SUITI
arodoxurus hermonhrolditue	Indian Small civet	Dart I of ech I
arodoxurus hermophroiditus Iuntiacus muntiacus	Indian Small civet Barking deer	Part-I of sch-I Sch-III

Annexure-C

HINDALCO INDUSTRIES LIMITED

SAMRI MINES DIVISION

Kudag Bauxite Mines

Year wise /lease wise Afforestation details

Year	Kudag lease				
1011	No. of Saplings	Area in Ha.			
1998-2017	117570	49.980			
2017-18	2960	1.220			
2018-19	2780	1.110			
2019-20	2980	1.200			
2020-21	4865	2.405			
2021-22	3270	0.354			
2022-23	5020	1.519			
Up to Sept- 2023	4170	1.105			
Total	143615	58.893			

Agent of Mines
Samp Mines Division
(For Hindalco Industries Limited) stres Ltd

Annexure-D

Hindalco Industrial Limited Samri Mines Division

Ground Water Level Data April-2023 to September-2023

Kudag Mine Lease Piezometer Reading					
Date Height(m)					
April-22	31.6				
May-22	33.1				
June-22	30.0				
July-22	29.3				
August-22	27.6				
September-22	31.2				
Half Yearly Average	30.47				

For Hindalco Industries Limited



Anacon Laboratories Pvt. Ltd. Nagpur Lab

◆ FP-34, 35, Food Park, Five Star Industral Estate, MIDC Butibori, Nagpur, Maharashtra, India - 441 122 + 91 8045685558 ■ Email : info@anacon.in O https://www.anaconlaboratories.com

Test Report

Test Rep	oort No.: ALPL/3105202	3/2-7
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				rage rors
Issued To:-	Sample Inward No.	ALPL/22052023/ENV-125/1-GW-1	Analysis Start	23/05/2023
M/s. Hindalco Industries Ltd.,	Inward Date	22/05/2023	Analysis End	29/05/2023
Kudag Village, P.O. Dumarkholi,	Reference	13562310015	Report Issue	31/05/2023
Tehsil Samri (Kusmi),		10002310010	Date	
Disrict: Balrampur (C.G)	Reference Date	20/05/2023	Sample Category	Ground Water
Sample Name	Sample Collected By Anacon Representative Mr. Kailash Chahande		Quantity Received 5 L & 250ml	
Ground Water				
Sampling Location	Sample Source	Sampling Date	Sampling Time 12.40 pm	
Saraidih (Hindalco Campus)	Borewell Water	18/05/2023		

TEST RESULTS

Requirement as per IS 10500 : 2012 Measurement (Drinking Water Specifications) S.N. Test Parameter Test Method Test Result Unit Including Amendment No. 4 Acceptable Permissible Limit Limit # Biological Testing 1. Water 1 Coliform Per 100 ml IS 15185: 2016 Absent Absent Absent 2 Escherichia coli Per 100 ml IS 15185: 2016 Absent Absent Absent Chemical Testing 1. Water 11 3 Alkalinity (as CaCO₃) IS 3025 (Part 23): 1986 mg/l 200 600 187 4 Ammonia (as N) mg/l IS 3025 (Part 34): 1988 0.5 No relaxation BDL(DL-0.1)5 Anionic surface active agents (as MBAS mg/l IS 13428: 2005 Annex K 0.2 BDL (DL - 0.01) 6 Colour Hazen units IS 3025 (Part 4): 2021 5 15 Cyanide (as CN) IS 3025 (Part 27): 1986 mg/l 0.05 No relaxation BDL (DL - 0.005) 8 Chloride (as Cl) mg/l IS 3025 (Part 32):1988 250 1000 28.46 9 Calcium (as Ca) IS 3025 (Part 40): 1991 mg/l 75 200 47.29 10 Chloramines (as Cl₂) IS 3025 (Part 26): 2021 mg/l 4.0 No relaxation BDL(DL-0.1)11 Free residual chlorine mg/l IS 3025 (Part 26): 2021 Min. 0.2 BDL (DL - 0.1) 12 Fluoride (as F) mg/l IS 3025 (Part 60): 2008 1.0 1.5 0.21 13 Magnesium (as Mg) mg/l IS 3025 (Part 46): 1994 30 100 13.58 1.4 Nitrate (as NO₃) mg/l APHA method 23rd edition: 2017 45 No relaxation BDL (DL - 2) 15 Odour IS 3025 (Part 5): 2018 Agreeable Agreeable Agreeable 16 pH IS 3025 (Part 11): 2022 6.5 to 8.5 No relaxation 8.21 at 25°C 17 Phenolic compounds (as C₆H₅OH) mg/l IS 3025 (Part 43): 1992 0.001 0.002 BDL (DL - 0.001) 18 Sulphate (as SO₄) IS 3025 (Part 24): 2022 mg/l 200 400 21.46 19 Sulphide (as H₂S) mg/l IS 3025 (Part 29): 1986 0.05 No relaxation BDL (DL - 0.03)20 Taste IS 3025 (Part 8): 1984 Agreeable Agreeable Agreeable Total dissolved solids 21 mg/l IS 3025 (Part 16): 2023 500 2000 462 22 Turbidity IS 3025 (Part 10): 1984 NTU 0.6 Total hardness (as CaCO₃) mg/l IS 3025 (Part 21): 2009 200 600 174.00 Mineral Oil mg/l ANtr/7.2/RES/06 No relaxation BDL (DL - 0.1)

Please refer last Page for Note and Remarks.

Verified By

Deputy Technical Manager

Yogesh Kombe Deputy Technical Manager Authorized Signatories

Technical Manager

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



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Test Report

Test Report No.: ALPL/31052023/2-7

1 cot report 1 to 1 El E/31032023/				Page 2 of 5
Issued To:-	Sample Inward No.	ALPL/22052023/ENV-125/1-GW-1	Analysis Start	23/05/2023
M/s. Hindalco Industries Ltd.,	Inward Date	22/05/2023	Analysis End	29/05/2023
Kudag Village, P.O. Dumarkholi, Tehsil Samri (Kusmi),	Reference	13562310015	Report Issue Date	31/05/2023
Disrict: Balrampur (C.G)	Reference Date	20/05/2023	Sample Category	Ground Water
Sample Name Ground Water	Sample Collected By Anacon Representative Mr. Kailash Chahande		Quantity 5 L & 2	
Sampling Location Saraidih (Hindalco Campus)	Sample Source Borewell Water	Sampling Date 18/05/2023	Sampling Time 12.40 pm	

T	EST	RESU	LTS

S.N.	Test Parameter	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 #	
II	Chemical Testing 2. Residues In Water		uh a _ u _ e u	403	Zillit ii	
25	Arsenic (as As)	mg/l	IS 3025 (Part 37): 2022	0.01	No relaxation	BDL (DL - 0.01)
26	Aluminium (as Al)	mg/l	IS 3025 (Part 2): 2019	0.03	0.2	BDL (DL - 0.01)
27	Barium (as Ba)	mg/l	IS 3025 (Part 2): 2019	0.7	No relaxation	BDL (DL - 0.01)
28	Boron (as B)	mg/l	IS 3025 (Part 2): 2019	0.5	2.4	BDL (DL - 0.1)
29	Copper (as Cu)	mg/l	IS 3025 (Part 2): 2019	0.05	1.5	BDL (DL - 0.03)
30	Cadmium (as Cd)	mg/l	IS 3025 (Part 2): 2019	0.003	No relaxation	BDL (DL - 0.001)
31	Iron (as Fe)	mg/l	IS 3025 (Part 2): 2019	1.0	No relaxation	0.24
32	Lead (as Pb)	mg/l	IS 3025 (Part 2): 2019	0.01	No relaxation	BDL (DL - 0.001)
33	Manganese (as Mn)	mg/l	IS 3025 (Part 2): 2019	0.1	0.3	BDL (DL = 0.001)
34	Mercury (as Hg)	mg/l	IS 3025 (Part 48): 1994	0.001	No relaxation	BDL (DL - 0.0005
35	Molybdenum (as Mo)	mg/l	IS 3025 (Part 2): 2019	0.07	No relaxation	BDL (DL - 0.003
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 - 0.001)
39	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2): 2019	0.05	No relaxation	BDL (DL - 0.001)
40	Zinc (as Zn)	mg/l	IS 3025 (Part 2): 2019	5	15	BDL (DL - 0.03)

☐ Please refer last Page for Note and Remarks.

Verified By

Mangesh Fande Technical Manager Authorized Signatory

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

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Test Report

/2-7			Page 3 of 5
Sample Inward No. Inward Date	ALPL/22052023/ENV-125/1-GW- 22/05/2023	Analysis Start Analysis End	23/05/2023 29/05/2023
Reference	13562310015	Report Issue Date	31/05/2023
Reference Date	20/05/2023	Sample Category	Ground Water
Sample Collected By Anacon Representative Mr. Kailash Chahande			
Sample Source Borewell Water	Sampling Date 18/05/2023		
	Sample Inward No. Inward Date Reference Reference Date Samp Anacon Represen Sample Source	Sample Inward No. ALPL/22052023/ENV-125/1-GW-Inward Date 22/05/2023 Reference 13562310015 Reference Date 20/05/2023 Sample Collected By Anacon Representative Mr. Kailash Chahande Sample Source Sampling Date	Sample Inward No. ALPL/22052023/ENV-125/1-GW-1 Inward Date 22/05/2023 Analysis Start Analysis End Reference 13562310015 Reference Date 20/05/2023 Sample Category Sample Collected By Anacon Representative Mr. Kailash Chahande 5 L & 2 Sample Source Sampling Date Sampling

			TEST RESULTS		_	pin
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	Chemical Testing 2. Residues In Water					
41	Polychlorinated biphenyls				- Hardina	
	2,2',5-trichlorobiphenyl	μg/l	ANtr/7.2/RES/04: 2018	100		BDL (DL - 0.03)
	2,4,4'-trichlorobiphenyl	μg/l	ANtr/7.2/RES/04: 2018			BDL (DL = 0.03)
	2,2',5,5'-tetrachlorobiphenyl	μg/l	ANtr/7.2/RES/04: 2018	1	No relaxation	BDL (DL = 0.03)
	2,2',4,5,5'-pentachlorobiphenyl	μg/l	ANtr/7.2/RES/04: 2018	0.5 No rela		BDL (DL = 0.03)
	2,2',3,4,4',5'-hexachlorobiphenyl	μg/l	ANtr/7.2/RES/04: 2018		140 Telasation	BDL (DL = 0.03)
	2,2',4,4',5,5'-hexachlorobiphenyl	μg/l	ANtr/7.2/RES/04: 2018	1		BDL (DL = 0.03)
	2,2',3,4,4',5,5'-heptachlorobiphenyl	μg/l	ANtr/7.2/RES/04: 2018	1		BDL (DL - 0.03)
42	Polynuclear aromatic hydrocarbons					DDE (DE - 0.03)
	Naphthalene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.03)
	Acenaphthylene	μg/l	ANtr/7.2/RES/03: 2018	1		BDL (DL - 0.03)
	Acenaphthene	μg/l	ANtr/7.2/RES/03: 2018	1		BDL (DL - 0.03)
	Fluorene	μg/l	ANtr/7.2/RES/03: 2018	1		BDL (DL - 0.03)
	Anthracene	μg/l	ANtr/7.2/RES/03: 2018	1		BDL (DL - 0.03)
	Phenanthrene	μg/I	ANtr/7.2/RES/03: 2018	1		BDL (DL - 0.03)
	Fluoranthene	μg/l	ANtr/7.2/RES/03: 2018	1		BDL (DL - 0.03)
	Pyrene	μg/l	ANtr/7.2/RES/03: 2018		645 U 5	BDL (DL - 0.03)
	Benzo(a)anthracene	μg/1	ANtr/7.2/RES/03: 2018	0.1	No relaxation	BDL (DL - 0.03)
	Chrysene	μg/l	ANtr/7.2/RES/03: 2018	1		BDL (DL - 0.03)
	Benzo(a)pyrene	μg/l	ANtr/7.2/RES/03: 2018	1		BDL (DL = 0.03)
	Benzo(b)fluoranthene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.03)
ļ	Benzo(k)fluoranthene	μg/l	ANtr/7.2/RES/03: 2018	1	1	BDL (DL - 0.03)
	Indeno(123,cd)pyrene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL = 0.03)
1	Dibenzo(a,h)anthracene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL = 0.03)
	Benzo(ghi)perylene	μg/l	ANtr/7.2/RES/03: 2018	1		BDL (DL = 0.03)

☐ Please refer last Page for Note and Remarks.

Verified By

Yogesh Kombe Deputy Technical Manager **Authorized Signatory**

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

Thanks for putting in your faith and trust in our services, We at Anacon Laboratories cherish our relationship.

We put in a lot of hard work to ensure that you have a seamless experience at every step of our relationship.

in order to ensure that your next experience will be significantly better, we welcome your feedback over email on feedback@anacon.in



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Test Report

Test Report No.: ALPL/31052023/2	-7	e and the contract of the cont		Page 4 of 5
Issued To:-	Sample Inward No.	ALPL/22052023/ENV-125/1-GW-1	Analysis Start	23/05/2023
M/s. Hindalco Industries Ltd.,	Inward Date	22/05/2023	Analysis End	29/05/2023
Kudag Village, P.O. Dumarkholi, Tehsil Samri (Kusmi),	Reference	13562310015	Report Issue Date	31/05/2023
Disrict: Balrampur (C.G)	Reference Date	20/05/2023	Sample Category	Ground Water
Sample Name Ground Water	Sample Collected By Anacon Representative Mr. Kailash Chahande		Quantity 5 L & 2	
Sampling Location Saraidih (Hindalco Campus)	Sample Source Borewell Water	Sampling Date 18/05/2023	Samplin 12.40	(T) (A)

S.N.	Test Parameter	Measurement Unit	Test Method	Require IS 105 (Drinking Wa Including A	Test Result	
				Acceptable Limit	Permissible Limit #	1
43	Trihalomethanes					
i	Bromoform	mg/l		0.1	No relaxation	BDL (DL -0.05)
ii	Dibromochloromethane	mg/l	ANtr/7.2/RES/05; 2018	0.1	No relaxation	BDL (DL -0.05)
iii	Bromodichloromethane	mg/l	ANU/1.2/RE3/03, 2018	0.06	No relaxation	BDL (DL -0.05)
iv	Chloroform	mg/l	SILIL II NEVI 12= I E I E	0.2	No relaxation	BDL (DL -0.05)
44	Pesticide Residues Organochlo	rine				
i	Alpha-HCH	μg/l	ANtr/7.2/RES/01: 2018	0.01	No relaxation	BDL (DL - 0.01
ii	Beta HCH	μg/l	ANtr/7.2/RES/01: 2018	0.04	No relaxation	BDL (DL - 0.03)
iii	Gamma - HCH (Lindane)	μg/l	ANtr/7.2/RES/01: 2018	2	No relaxation	BDL (DL - 0.03)
iv	Delta- HCH	μg/l	ANtr/7.2/RES/01; 2018	0.04	No relaxation	BDL (DL - 0.03)
v	Alachlor	μg/l	ANtr/7.2/RES/01: 2018	20	No relaxation	BDL (DL - 0.03)
vi	Aldrin	μg/l	ANtr/7.2/RES/01: 2018	0.03	No relaxation	BDL (DL - 0.03)
vii	Dieldrin	μg/l	ANtr/7.2/RES/01: 2018	0.03	No relaxation	BDL (DL - 0.03)
viii	Butachlor	μg/l	ANtr/7.2/RES/01: 2018	125	No relaxation	BDL (DL - 0.03)
ix	p,p'-DDE	μg/l	ANtr/7.2/RES/01: 2018	1	No relaxation	BDL (DL - 0.03)
X	o,p'-DDE	μg/l	ANtr/7.2/RES/01: 2018	1	No relaxation	BDL (DL - 0.03)
xi	p,p'-DDD	μg/l	ANtr/7.2/RES/01: 2018	1	No relaxation	BDL (DL - 0.03)
xii	o,p'-DDD	μg/l	ANtr/7.2/RES/01: 2018	1	No relaxation	BDL (DL - 0.03)
xiii	o,p'- DDT	μg/l	ANtr/7.2/RES/01: 2018		No relaxation	BDL (DL - 0.03)
xiv	p,p'- DDT	μg/l	ANtr/7.2/RES/01: 2018	1	No relaxation	BDL (DL - 0.03)
xv	Endosulphan				1	1222 (30 0.03)
	Alpha-Endosulphan			V.		
	Beta-Endosulphan	μg/l	ANtr/7.2/RES/01: 2018	0. 4	No relaxation	BDL (DL - 0.03)
	Endosulphan sulphate			*****		DDE (DE - 0.03)

Delease refer last Page for Note and Remarks.

Verified By

Yogesh Kombe
Deputy Technical Manager

Authorized Signatory

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



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Test Report

Test Report No.: ALPL/31052023/2	-7			Page 5 of 5
Issued To:-	Sample Inward No.	ALPL/22052023/ENV-125/1-GW-1	Analysis Start	23/05/2023
M/s. Hindalco Industries Ltd.,	Inward Date	22/05/2023	Analysis End	29/05/2023
Kudag Village, P.O. Dumarkholi, Tehsil Samri (Kusmi),	Reference	e 13562310015		31/05/2023
Disrict: Balrampur (C.G)	Reference Date	20/05/2023	Sample Category	Ground Water
Sample Name Ground Water		ole Collected By tative Mr. Kailash Chahande	Quantity 5 L & 2	
Sampling Location Saraidih (Hindalco Campus)	Sample Source Borewell Water	Sampling Date 18/05/2023	Samplir 12.40	0

			TEST RESULT	S		
S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4		Test Result
	L. Control of the Con				Permissible Limit #	
44	Pesticide Residues Organopho	osphorus		4.2		
xvi	2,4-Dichlorophenoxyacetic acid	μg/l	ANtr/7.2/RES/02: 2018	30	No relaxation	BDL (DL - 0.03)
xvii	Monocrotophos	μg/l	ANtr/7.2/RES/02: 2018		No relaxation	BDL (DL - 0.03)
xviii	Atrazine	μg/l	ANtr/7.2/RES/02: 2018	2	No relaxation	BDL (DL - 0.03)
xix	Parathion methyl	μg/l	ANtr/7.2/RES/02: 2018	0.3	No relaxation	BDL (DL - 0.03)
XX	Paraoxon methyl	μg/l	ANtr/7.2/RES/02: 2018			BDL (DL - 0.03)
xxi	Isoproturon	μg/l	ANtr/7.2/RES/02: 2018	9	No relaxation	BDL (DL - 0.03)
xxii	Malathion	μg/l	ANtr/7.2/RES/02:2018	190	No relaxation	BDL (DL - 0.03)
xxiii	Malaoxon	μg/l	ANtr/7.2/RES/02: 2018		-	BDL (DL - 0.03)
xxiv	Ethion	μg/l	ANtr/7.2/RES/02: 2018	3	No relaxation	BDL (DL - 0.03)
XXV	Chlorpyrifos	μg/l	ANtr/7.2/RES/02: 2018	30	No relaxation	BDL (DL - 0.03)
xxvi	Phorate					
	Phorate-sulfone	μg/l	ANtr/7.2/RES/02: 2018	2	No relaxation	BDL (DL - 0.03)
	Phorate-sulfoxide					

NOTES: • Please see watermark "Original Test Report" to confirm the authenticity of this report. • Results shall be referred to tested sample(s) and applicable to tested parameters only.
• Test report shall not be reproduced except in full without prior written approval of Anacon Labs. • Liability of Anacon Labs is limited to invoiced amount only. • Non-perishable and perishable sample(s) shall be disposed off after 30 days and 15 days respectively from the date of issue of Test Report, unless specified otherwise. • #Permissible limit in absence of an alternate source for drinking water. • 'mg/l' is equivalent to 'ppm'. • 'µg/l' is equivalent to 'ppb'. • BDL- Below detection limit. • DL- DL Indicates detection limit of instrument /method and shall be considered as 'absent'. • Result for test no. 11 is not relevant. • ANqr RES-: Inhouse validated method.

REMARKS: As requested by the client, sample was tested for above parameters only. Sample complies with IS:10500:2012, for tests conducted, indicating that it is fit for drinking purpose with respect to tested parameters.

Verified By

Yogesh Kombe Deputy Technical Manager **Authorized Signatory**

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

----END OF REPORT----



Anacon Laboratories Pvt. Ltd. Nagpur Lab

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Test Report

Test Report No.: ALPL/31052023/2-8

Page 1 of 5

ple Inward No. ard Date	ALPL/22052023/ENV-125/2-GW 22/05/2023	V-2 Analysis Start Analysis End	23/05/2023
ard Date	22/05/2023	Analysis End	20/05/2022
			29/05/2023
erence	13562310015	Report Issue Date	31/05/2023
erence Date	20/05/2023	Sample Category	Ground Water
		Service and Control of the Control o	Received 250ml
Sample Source	Sampling Date	Samplin	ng Time
Borewell Water	18/05/2023	1.20	pm
	Anacon Represer Sample Source		Anacon Representative Mr. Kailash Chahande 5 L & Sample Source Sampling Date Samplin

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
		11 12 111111 1		Acceptable Limit	Permissible Limit #	1
1	Biological Testing 1. Water				**	***************************************
1	Coliform	Per 100 ml	IS 15185 : 2016	Absent	Absent	Absent
2	Escherichia coli	Per 100 ml	IS 15185 : 2016	Absent	Absent	Absent
П	Chemical Testing 1. Water					
3	Alkalinity (as CaCO ₃)	mg/l	IS 3025 (Part 23): 1986	200	600	164.82
4	Ammonia (as N)	mg/l	IS 3025 (Part 34): 1988	0.5	No relaxation	BDL (DL - 0.1)
5	Anionic surface active agents (as MBAS)	mg/l	IS 13428 : 2005 Annex K	0.2	1.0	BDL (DL - 0.01)
6	Colour	Hazen units	IS 3025 (Part 4): 2021	5	15	1
7	Cyanide (as CN)	mg/l	IS 3025 (Part 27): 1986	0.05	No relaxation	BDL (DL - 0.005)
8	Chloride (as Cl)	mg/l	IS 3025 (Part 32) :1988	250	1000	26.43
9	Calcium (as Ca)	mg/l	IS 3025 (Part 40): 1991	75	200	47.91
10	Chloramines (as Cl ₂)	mg/l	IS 3025 (Part 26): 2021	4.0	No relaxation	BDL (DL - 0.1)
11	Free residual chlorine	mg/l	IS 3025 (Part 26): 2021	Min. 0.2	1	BDL (DL - 0.1)
12	Fluoride (as F)	mg/l	IS 3025 (Part 60): 2008	1.0	1.5	0.16
13	Magnesium (as Mg)	mg/l	IS 3025 (Part 46): 1994	30	100	11.94
14	Nitrate (as NO ₃)	mg/l	APHA 23rd Edition	45	No relaxation	BDL (DL - 2)
15	Odour		IS 3025 (Part 5): 2018	Agreeable	Agreeable	Agreeable
16	pH	-	IS 3025 (Part 11): 2022	6.5 to 8.5	No relaxation	7.94 at 25°C
17	Phenolic compounds (as C ₆ H ₅ OH)	mg/l	IS 3025 (Part 43): 1992	0.001	0.002	BDL (DL - 0.001)
18	Sulphate (as SO ₄)	mg/l	IS 3025 (Part 24): 2022	200	400	18.73
19	Sulphide (as H ₂ S)	mg/l	IS 3025 (Part 29): 1986	0.05	No relaxation	BDL (DL - 0.03)
20	Taste		IS 3025 (Part 8): 1984	Agreeable	Agreeable	Agreeable
21	Total dissolved solids	mg/l	IS 3025 (Part 16): 2023	500	2000	451
22	Turbidity	NTU	IS 3025 (Part 10): 1984	11	5	0.4
23	Total hardness (as CaCO ₃)	mg/l	IS 3025 (Part 21): 2009	200	600	168.81
24	Mineral Oil	mg/l	ANtr/7.2/RES/06	1	No relaxation	BDL (DL - 0.1)

Please refer last Page for Note and Remarks.

Verified By

Snehal Raut Deputy Technical Manager

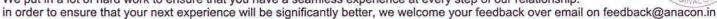
Deputy Technical Manager

Authorized Signatories

Technical Manager

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

Thanks for putting in your faith and trust in our services, We at Anacon Laboratories cherish our relationship. We put in a lot of hard work to ensure that you have a seamless experience at every step of our relationship.





Sampling Location

Kudag Village

Anacon Laboratories

Anacon Laboratories Pvt. Ltd. Nagpur Lab

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Sampling Time

1.20 pm

Test Report

Test Report No.: ALPL/31052023/	2-8			Page 2 of 5
Issued To:-	Sample Inward No.	ALPL/22052023/ENV-125/2-GW-2	Analysis Start	23/05/2023
M/s. Hindalco Industries Ltd.,	Inward Date	22/05/2023	Analysis End	29/05/2023
Kudag Village, P.O. Dumarkholi, Tehsil Samri (Kusmi),	Reference	13562310015	Report Issue Date	31/05/2023
Disrict: Balrampur (C.G)	Reference Date	20/05/2023	Sample Category	Ground Water
Sample Name	Sample Collected By		Quantity Received	
Ground Water	Anacon Representative Mr. Kailash Chahande		5 L & 250ml	

TEST RESULTS

Sample Source

Borewell Water

Sampling Date

18/05/2023

S.N.	Test Parameter	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 #	
П	Chemical Testing 2. Residues In Water					
25	Arsenic (as As)	mg/l	IS 3025 (Part 37): 2022	0.01	No relaxation	BDL (DL - 0.01)
26	Aluminium (as Al)	mg/l	IS 3025 (Part 2): 2019	0.03	0.2	BDL (DL - 0.01)
27	Barium (as Ba)	mg/l	IS 3025 (Part 2): 2019	0.7	No relaxation	BDL (DL - 0.01)
28	Boron (as B)	mg/l	IS 3025 (Part 2): 2019	0.5	2.4	BDL (DL - 0.1)
29	Copper (as Cu)	mg/l	IS 3025 (Part 2): 2019	0.05	1.5	BDL (DL - 0.03)
30	Cadmium (as Cd)	mg/l	IS 3025 (Part 2): 2019	0.003	No relaxation	BDL (DL - 0.001)
31	Iron (as Fe)	mg/l	IS 3025 (Part 2): 2019	1.0	No relaxation	0.16
32	Lead (as Pb)	mg/l	IS 3025 (Part 2): 2019	0.01	No relaxation	BDL (DL - 0.001)
33	Manganese (as Mn)	mg/l	IS 3025 (Part 2): 2019	0.1	0.3	BDL (DL - 0.05)
34	Mercury (as Hg)	mg/l	IS 3025 (Part 48): 1994	0.001	No relaxation	BDL (DL - 0.0005)
35	Molybdenum (as Mo)	mg/l	IS 3025 (Part 2): 2019	0.07	No relaxation	BDL (DL - 0.01)
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- 0.001)
38	Silver (as Ag)	mg/l	IS 13428 (Annex J): 2005	0.1	No relaxation	BDL (DL - 0.001)
39	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2): 2019	0.05	No relaxation	BDL (DL - 0.03)
40	Zinc (as Zn)	mg/l	IS 3025 (Part 2): 2019	5	15	BDL (DL - 0.1)

Please refer last Page for Note and Remarks.

Verified By

Mangesh Fande Technical Manager **Authorized Signatory**

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



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Test Report

Test Report No.: ALPL/31052023/	2-8			Page 3 of 5
Issued To:- M/s. Hindalco Industries Ltd.,	Sample Inward No. ALPL/22052023/ENV-125/2-GW-2 Inward Date 22/05/2023 Reference 13562310015 Reference Date 20/05/2023		Analysis Start Analysis End	23/05/2023 29/05/2023
Kudag Village, P.O. Dumarkholi,			Report Issue Date	31/05/2023
Tehsil Samri (Kusmi), Disrict: Balrampur (C.G)			Sample Category Ground Wa	
Sample Name Ground Water	Sample Collected By Anacon Representative Mr. Kailash Chahande		Quantity Received 5 L & 250ml	
Sampling Location Kudag Village	Sample Source Borewell Water		Samplii 1.20	ng Time

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	Chemical Testing 2. Residues In Water					
41	Polychlorinated biphenyls	trive second			×	
	2,2',5-trichlorobiphenyl	μg/l	ANtr/7.2/RES/04; 2018			BDL (DL - 0.03
	2,4,4'-trichlorobiphenyl	μg/l	ANtr/7.2/RES/04: 2018			BDL (DL - 0.0)
	2,2',5,5'-tetrachlorobiphenyl	μg/l	ANtr/7.2/RES/04: 2018			BDL (DL - 0.0.
	2,2',4,5,5'-pentachlorobiphenyl	μg/l	ANtr/7.2/RES/04: 2018	0.5	No relaxation	BDL (DL - 0.0
	2,2',3,4,4',5'-hexachlorobiphenyl	μg/l	ANtr/7.2/RES/04: 2018			BDL (DL - 0.0
	2,2',4,4',5,5'-hexachlorobiphenyl	μg/l	ANtr/7.2/RES/04: 2018			BDL (DL - 0.0
	2,2',3,4,4',5,5'-heptachlorobiphenyl	μg/l	ANtr/7.2/RES/04: 2018			BDL (DL - 0.0
42	Polynuclear aromatic hydrocarbons					
	Naphthalene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.0
	Acenaphthylene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.0
	Acenaphthene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.0
	Fluorene	μg/l	ANtr/7.2/RES/03: 2018	1 1	BDL (DL - 0.0	
	Anthracene	μg/l	ANtr/7.2/RES/03: 2018		Newdown	BDL (DL - 0.0
	Phenanthrene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.0
	Fluoranthene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.0
	Pyrene	μg/l	ANtr/7.2/RES/03; 2018	0.1 No relaxation		BDL (DL - 0.0
	Benzo(a)anthracene	μg/l	ANtr/7.2/RES/03: 2018		ino relaxation	BDL (DL - 0.0
	Chrysene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.0
	Benzo(a)pyrene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.0
	Benzo(b)fluoranthene	μg/l	ANtr/7.2/RES/03: 2018		BDL (DL - 0.0	
	Benzo(k)fluoranthene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.0
	Indeno(123,cd)pyrene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.0
	Dibenzo(a,h)anthracene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.0
	Benzo(ghi)perylene	μg/l	ANtr/7,2/RES/03: 2018	7		BDL (DL - 0.0

□ Please refer last Page for Note and Remarks.

Verified By

Yogesh Kombe Deputy Technical Manager **Authorized Signatory**

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

Janu



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Test Report

Test Report No.: ALPL/31052023/	2-8			Page 4 of 5
Issued To:-	Sample Inward No.	ALPL/22052023/ENV-125/2-GW-2	Analysis Start	23/05/2023
M/s. Hindalco Industries Ltd.,	Inward Date	22/05/2023	Analysis End	29/05/2023
Kudag Village, P.O. Dumarkholi, Tehsil Samri (Kusmi),	dag Village, P.O. Dumarkholi, Reference 13562310015		Report Issue Date	31/05/2023
Disrict: Balrampur (C.G)	Reference Date	20/05/2023	Sample Category	Ground Water
Sample Name Ground Water	Sample Collected By Anacon Representative Mr. Kailash Chahande		Quantity Received 5 L & 250ml	
Sampling Location Kudag Village	Sample Source Borewell Water		Sampling Time	

TEST RESULTS

S.N.	Test Parameter Measurem Unit		Test Method	Require IS 105 (Drinking Wa Including A	Test Result	
				Acceptable Limit	Permissible Limit #	
43	Trihalomethanes					Tan
i	Bromoform	mg/l		0.1	No relaxation	BDL (DL -0.05)
ii	Dibromochloromethane	mg/l	ANtr/7.2/RES/05: 2018	0.1	No relaxation	BDL (DL -0.05)
iii	Bromodichloromethane	mg/l		0.06	No relaxation	BDL (DL -0.05)
iv	Chloroform	mg/l		0.2	No relaxation	BDL (DL -0.05)
44	Pesticide Residues Organochlo	rine				80.000
i	Alpha-HCH	μg/l	ANtr/7.2/RES/01; 2018	0.01	No relaxation	BDL (DL - 0.01)
ii	Beta HCH	μg/l	ANtr/7.2/RES/01; 2018	0.04	No relaxation	BDL (DL - 0.03)
iii	Gamma - HCH (Lindane)	μg/l	ANtr/7.2/RES/01: 2018	2	No relaxation	BDL (DL - 0.03)
iv	Delta- HCH	μg/l	ANtr/7.2/RES/01: 2018	0.04	No relaxation	BDL (DL - 0.03)
v	Alachlor	μg/l	ANtr/7.2/RES/01: 2018	20	No relaxation	BDL (DL - 0.03)
vi	Aldrin	μg/l	ANtr/7.2/RES/01: 2018	0.03	No relaxation	BDL (DL - 0.03)
vii	Dieldrin	μg/l	ANtr/7.2/RES/01: 2018	0.03	No relaxation	BDL (DL - 0.03)
viii	Butachlor	μg/l	ANtr/7.2/RES/01: 2018	125	No relaxation	BDL (DL - 0.03)
ix	p,p'-DDE	μg/1	ANtr/7.2/RES/01: 2018	1	No relaxation	BDL (DL - 0.03)
X	o,p'-DDE	μg/l	ANtr/7.2/RES/01: 2018	111	No relaxation	BDL (DL - 0.03)
xi	p,p'-DDD	μg/l	ANtr/7.2/RES/01: 2018	1	No relaxation	BDL (DL - 0.03)
xii	o,p'-DDD	μg/l	ANtr/7.2/RES/01: 2018	1	No relaxation	BDL (DL - 0.03)
xiii	o,p'- DDT	μg/l	ANtr/7.2/RES/01: 2018	1	No relaxation	BDL (DL - 0.03)
xiv	p,p'- DDT	μg/l	ANtr/7.2/RES/01: 2018	1	No relaxation	BDL (DL - 0.03)
XV	Endosulphan	11. Oz () 22. ()			A	-
	Alpha-Endosulphan					
	Beta-Endosulphan	μg/l	ANtr/7.2/RES/01: 2018	0. 4	No relaxation	BDL (DL - 0.03)
	Endosulphan sulphate		24574317412447555553775555	100 SEC.		ATOTA SIST

Please refer last Page for Note and Remarks.

Verified By

Yogesh Kombe Deputy Technical Manager **Authorized Signatory**



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Test Report

Test Report No.: ALPL/31052023/2	-8			Page 5 of 5
Issued To:-	Sample Inward No.	ALPL/22052023/ENV-125/2-GW-2	Analysis Start	23/05/2023
M/s. Hindalco Industries Ltd.,	Inward Date	22/05/2023	Analysis End	29/05/2023
Kudag Village, P.O. Dumarkholi, Tehsil Samri (Kusmi),	Reference	13562310015	Report Issue Date	31/05/2023
Disrict: Balrampur (C.G)	Reference Date	20/05/2023	Sample Category Ground W	
Sample Name Sample Collected By		ole Collected By	Quantity	Received

Ground WaterAnacon Representative Mr. Kailash Chahande5 L & 250mlSampling LocationSample SourceSampling DateSampling TimeKudag VillageBorewell Water18/05/20231.20 pm

s.n.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4		Test Result
		1000		Acceptable Limit	Permissible Limit #	
44	Pesticide Residues Organopho	osphorus		449		
xvi	2,4-Dichlorophenoxyacetic acid	μg/l	ANtr/7.2/RES/02: 2018	30	No relaxation	BDL (DL - 0.03)
xvii	Monocrotophos	μg/l	ANtr/7.2/RES/02: 2018	A MAR	No relaxation	BDL (DL - 0.03)
xviii	Atrazine	μg/l	ANtr/7.2/RES/02: 2018	2	No relaxation	BDL (DL - 0.03)
xix	Parathion methyl	μg/l	ANtr/7.2/RES/02: 2018	0.3	No relaxation	BDL (DL - 0.03)
XX	Paraoxon methyl	μg/l	ANtr/7.2/RES/02: 2018	•	¥ . 0	BDL (DL - 0.03)
xxi	Isoproturon	μg/l	ANtr/7.2/RES/02: 2018	9	No relaxation	BDL (DL - 0.03)
xxii	Malathion	μg/l	ANtr/7.2/RES/02: 2018	190	No relaxation	BDL (DL - 0.03)
xxiii	Malaoxon	μg/l	ANtr/7.2/RES/02:2018	· ·	\$ 7 .0	BDL (DL - 0.03)
xxiv	Ethion	μg/l	ANtr/7.2/RES/02: 2018	3	No relaxation	BDL (DL - 0.03)
XXV	Chlorpyrifos	μg/l	ANtr/7.2/RES/02: 2018	30	No relaxation	BDL (DL - 0.03)
xxvi	Phorate		Q			
	Phorate-sulfone	μg/l	ANtr/7.2/RES/02: 2018	2	No relaxation	BDL (DL - 0.03)
	Phorate-sulfoxide	455		1.52	ANNUAL COURTS STREET	n-ranco-rawauscosci serieses in

NOTES: • Please see watermark "Original Test Report" to confirm the authenticity of this report. • Results shall be referred to tested sample(s) and applicable to tested parameters only.
• Test report shall not be reproduced except in full without prior written approval of Anacon Labs. • Liability of Anacon Labs is limited to invoiced amount only. • Non-perishable and perishable sample(s) shall be disposed off after 30 days and 15 days respectively from the date of issue of Test Report, unless specified otherwise. • #Permissible limit in absence of an alternate source for drinking water. • 'mg/l' is equivalent to 'ppn'. • 'mg/l' is equivalent to 'ppn'. • BDL- Below detection limit. • DL- DL Indicates detection limit of instrument /method and shall be considered as 'absent'. • Result for test no. 11 is not relevant. • ANqr RES-: Inhouse validated method.

REMARKS: As requested by the client, sample was tested for above parameters only. Sample complies with IS:10500:2012, for tests conducted, indicating that it is fit for drinking purpose with respect to tested parameters.

Verified By

Yogesh Kombe Deputy Technical Manager **Authorized Signatory**

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

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



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12.20 pm

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Test Report

Test Re	port N	o.: ALI	PL/300920	023/2-7
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1 cst Report No.: ALFL/30092023/	T			Page 1 of 5
Issued To:- M/s. Hindalco Industries Ltd., Kudag Village, P.O. Dumarkholi, Tehsil Samri (Kusmi),	Sample Inward No. Inward Date Reference	ALPL/20092023/ENV-219/1-GW-1 20/09/2023 13562310015	Analysis Start Analysis End Report Issue Date	21/09/2023 25/09/2023 30/09/2023
Disrict: Balrampur (C.G)	Reference Date	20/05/2023	Sample Category	Ground Water
Sample Name Ground Water	Sample Collected By Anacon Representative Mr. Kailash Chahande		Quantity 5 L & 2	Received
Sampling Location Saraidih (Hindalco Campus)	Sample Source Borewell Water	Sampling Date 12/09/2023	Sampling Time	

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
	Did to the second			Acceptable Limit	Permissible Limit #	
	Biological Testing 1. Water					
1	Coliform	Per 100 ml	IS 15185 : 2016	Absent	Absent	Absent
2	Escherichia coli	Per 100 ml	IS 15185 : 2016	Absent	Absent	Absent
II	Chemical Testing 1. Water			1333000	11000111	riosciii
3	Alkalinity (as CaCO ₃)	mg/l	IS 3025 (Part 23): 1986	200	600	194
4	Ammonia (as N)	mg/l	IS 3025 (Part 34): 1988	0.5	No relaxation	BDL (DL - 0.1)
5	Anionic surface active agents (as MBAS)	mg/l	IS 13428 : 2005 Annex K	0.2	1.0	BDL (DL = 0.1)
6	Colour	Hazen units	IS 3025 (Part 4): 2021	5	15	BDL (DL = 0.01)
7	Cyanide (as CN)	mg/l	IS 3025 (Part 27): 1986	0.05	No relaxation	BDL (DL = 0.005)
8	Chloride (as Cl)	mg/l	IS 3025 (Part 32) :1988	250	1000	
9	Calcium (as Ca)	mg/l	IS 3025 (Part 40): 1991	75	200	27.16
10	Chloramines (as Cl ₂)	mg/l	IS 3025 (Part 26) : 2021	4.0	No relaxation	48.19
11	Free residual chlorine	mg/l	IS 3025 (Part 26) : 2021	Min. 0.2	No relaxation	BDL (DL - 0.1)
12	Fluoride (as F)	mg/l	IS 3025 (Part 60) : 2008	1.0	1.5	BDL (DL - 0.1)
13	Magnesium (as Mg)	mg/l	IS 3025 (Part 46) : 1994	30	1.00	0.27
14	Nitrate (as NO ₃)	mg/l	APHA method 23rd edition: 2017	45	No relaxation	14.31
15	Odour	47.7	IS 3025 (Part 5) : 2018	Agreeable		BDL (DL - 2)
16	pH	0.0	IS 3025 (Part 11) : 2022	6.5 to 8.5	Agreeable	Agreeable
17	Phenolic compounds (as C ₆ H ₅ OH)	mg/l	IS 3025 (Part 43) : 1992	0.001	No relaxation	7.94 at 25°C
18	Sulphate (as SO ₄)	mg/l	IS 3025 (Part 24) : 2022	200	0.002 400	BDL (DL - 0.001)
19	Sulphide (as H ₂ S)	mg/l	IS 3025 (Part 29) : 1986	0.05		23.86
20	Taste	-	IS 3025 (Part 8) : 1984		No relaxation	BDL (DL - 0.03)
21	Total dissolved solids	mg/l	IS 3025 (Part 16) : 1984	Agreeable 500	Agreeable	Agreeable
22	Turbidity	NTU	IS 3025 (Part 10) : 2025	300	2000	452
23	Total hardness (as CaCO ₃)	mg/l	IS 3025 (Part 10): 1984	200	5	0.4
24	Mineral Oil	mg/l	ANtr/7.2/RES/06	200	600	179.24
- Die	ase refer last Page for Note and Dam		/MAII/ / .4/ NEO/00	I	No relaxation	BDL (DL - 0.1)

Please refer last Page for Note and Remarks.

Verified By

Snehal Raut Deputy Technical Manager Radha Pawar Chemist

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Pooja Kathane Technical Manager



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Test Report

Test Report No.: ALPL/30092023/2-7

Issued To:-	C1 I 127	Tu Lu Vissos		Page 2 of 5
	Sample Inward No.	ALPL/20092023/ENV-219/1-GW-1	Analysis Start	21/09/2023
M/s. Hindalco Industries Ltd.,	Inward Date	20/09/2023	Analysis End	25/09/2023
Kudag Village, P.O. Dumarkholi,	Reference	13562310015	Report Issue	30/09/2023
Tehsil Samri (Kusmi),			Date	
Disrict: Balrampur (C.G)	Reference Date	20/05/2023	Sample Category	Ground Water
Sample Name Ground Water	Sample Collected By Anacon Representative Mr. Kailash Chahande		Quantity 5 L & 2	Received
Sampling Location Saraidih (Hindalco Campus)	Sample Source Borewell Water	Sampling Date 12/09/2023	Sampling Time 12.20 pm	
	Contract process	11/07/1020	12.20	pm

TECT DECLI TO

S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500: 2012 (Drinking Water Specifications) Including Amendment No. 4		IS 10500 : 2012		Test Result
				Acceptable Limit	Permissible Limit #	1		
П	Chemical Testing 2. Residues In Water			27	Limit #			
25	Arsenic (as As)	mg/l	IS 3025 (Part 37): 2022	0.01	No relaxation	DDI (DI 0.01)		
26	Aluminium (as Al)	mg/l	IS 3025 (Part 2): 2019	0.03		BDL (DL - 0.01)		
27	Barium (as Ba)	mg/l	IS 3025 (Part 2): 2019	0.03	0.2	BDL (DL - 0.01)		
28	Boron (as B)	mg/l	IS 3025 (Part 2): 2019	0.5	No relaxation	BDL (DL - 0.01)		
29	Copper (as Cu)	mg/l	IS 3025 (Part 2) : 2019	0.05	2.4	BDL (DL - 0.1)		
30	Cadmium (as Cd)	mg/l	IS 3025 (Part 2): 2019	0.003	1.5	BDL (DL - 0.03)		
31	Iron (as Fe)	mg/l	IS 3025 (Part 2): 2019	1.0	No relaxation	BDL (DL - 0.001)		
32	Lead (as Pb)	mg/l	IS 3025 (Part 2) : 2019	0.01	No relaxation	0.16		
33	Manganese (as Mn)	mg/l	IS 3025 (Part 2) : 2019		No relaxation	BDL (DL - 0.001)		
34	Mercury (as Hg)	mg/l	IS 3025 (Part 48): 1994	0.1	0.3	BDL (DL - 0.05)		
35	Molybdenum (as Mo)	mg/l	IS 3025 (Part 2): 2019	0.001	No relaxation	BDL (DL - 0.0005		
36	Nickel (as Ni)	mg/l	IS 3025 (Part 2) : 2019	0.07	No relaxation	BDL (DL - 0.01)		
37	Selenium (as Se)	mg/l	IS 3025 (Part 56) : 2003	0.02	No relaxation	BDL (DL - 0.01)		
38	Silver (as Ag)	mg/l	IS 13428 (Annex J): 2005	0.01	No relaxation	BDL (DL- 0.001)		
39	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2): 2019	0.1	No relaxation	BDL (DL - 0.001		
40	Zinc (as Zn)	mg/l	IS 3025 (Part 2): 2019	0.05	No relaxation	BDL (DL - 0.03) BDL (DL - 0.1)		

Please refer last Page for Note and Remarks.

Verified By

Mangesh Fande Technical Manager **Authorized Signatory**



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Test Report

Test Report No.: ALPL/30092023/2-7

Issued To:-	Sample Inward No.	AT DY MAGAZINE		Page 3 of 5
M/s. Hindalco Industries Ltd.,	Inward Date 20/09/2023		Analysis Start Analysis End	21/09/2023 25/09/2023
Kudag Village, P.O. Dumarkholi, Tehsil Samri (Kusmi),			Report Issue Date	30/09/2023
Disrict: Balrampur (C.G)	Reference Date	20/05/2023	Sample Category	Ground Water
Sample Name Ground Water	Sample Collected By Anacon Representative Mr. Kailash Chahande		Quantity 5 L & 2	Received
Sampling Location Saraidih (Hindalco Campus)	Sample Source Borewell Water	Sampling Date 12/09/2023	Samplin 12.20	g Time
			12.20	PIII

			TEST RESULTS	09/2023	12.20	PIII		
S.N.	Test Parameter	Measurement Unit	Requirement as per IS 10500 : 2012 Measurement Test Method (Drinking Water Specifications)		Test Result			
II	Chamical Test			Acceptable Limit	Permissible Limit #			
11	Chemical Testing 2. Residues In Water		4			1		
41	Polychlorinated biphenyls			V . V				
	2,2',5-trichlorobiphenyl	μg/l	ANtr/7.2/RES/04: 2018					
	2,4,4'-trichlorobiphenyl	μg/1	ANtr/7.2/RES/04: 2018			BDL (DL - 0.0		
	2,2',5,5'-tetrachlorobiphenyl	μg/1	ANtr/7.2/RES/04: 2018	- 8	No relaxation	BDL (DL - 0.0		
	2,2',4,5,5'-pentachlorobiphenyl	μg/l	ANtr/7.2/RES/04: 2018	4 0.5		BDL (DL - 0.0		
	2,2',3,4,4',5'-hexachlorobiphenyl	μg/l	ANtr/7.2/RES/04: 2018	0.5		BDL (DL - 0.0		
	2,2',4,4',5,5'-hexachlorobiphenyl	μg/l	ANtr/7.2/RES/04: 2018			BDL (DL - 0.0		
	2,2',3,4,4',5,5'-heptachlorobiphenyl	μg/l	ANtr/7.2/RES/04: 2018	4		BDL (DL - 0.0		
42	Polynuclear aromatic hydrocarbons	rs.	7444/7.2/RES/04. 2018			BDL (DL - 0.0		
	Naphthalene ug/ ANtr/7 2/RFS/03: 2018							
	Acenaphthylene	µg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.0		
	Acenaphthene	дд/1	ANtr/7.2/RES/03: 2018	1		BDL (DL - 0.0		
	Fluorene	µg/l	ANtr/7.2/RES/03: 2018	-		BDL (DL - 0.0		
	Anthracene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.0		
- 1	Phenanthrene	μg/l	ANtr/7.2/RES/03: 2018	1		BDL (DL - 0.0)		
- 1	Fluoranthene	μg/l	ANtr/7.2/RES/03: 2018	1		BDL (DL - 0.0)		
- 1	Pyrene	μg/l	ANtr/7.2/RES/03: 2018	1		BDL (DL - 0.0)		
- 1	Benzo(a)anthracene	μg/l	ANtr/7.2/RES/03: 2018	0.1	No relaxation	BDL (DL - 0.03		
-	Chrysene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.03		
	Benzo(a)pyrene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.03		
ļ.	Benzo(b)fluoranthene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.0)		
1	Benzo(k)fluoranthene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.0)		
	Indeno(123,cd)pyrene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.0)		
-	Dibenzo(a,h)anthracene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.03		
	Benzo(ghi)perylene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.03 BDL (DL - 0.03		

☐ Please refer last Page for Note and Remarks.

Verified By

Radha Pawar Chemist

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Test Report

Test Report No.: ALPL/30092023/2-7

	Page 4 of 5
GW-1 Analysis Start Analysis End	21/09/2023 25/09/2023
Report Issue Date	30/09/2023
Sample Catego	ory Ground Water
Quanti	ty Received & 250ml
Sampling Time 12.20 pm	

		_	TEST RESULTS		A.		
S.N.	Test Parameter	Test Parameter Measurement Unit Test Method		Require IS 10: (Drinking Wa Including A	Test Result		
43	Trihalomethanes	Acceptable I imit Demai 111 X 1 1 11					
i	Bromoform	mg/l					
ii	Dibromochloromethane	mg/l	1	0.1	No relaxation	BDL (DL -0.05	
iii	Bromodichloromethane	mg/l	ANtr/7.2/RES/05: 2018	0.1	No relaxation	BDL (DL -0.05	
iv	Chloroform	mg/l	1	0.06	No relaxation	BDL (DL -0.05	
44	Pesticide Residues Organochio	rine		0.2	No relaxation	BDL (DL -0.05	
i	Alpha-HCH		ANI-/7 2/00/2010 2010				
ii	Beta HCH	μg/l	ANtr/7.2/RES/01: 2018	0.01	No relaxation	BDL (DL - 0.01	
iii	Gamma - HCH (Lindane)	μg/l	ANtr/7.2/RES/01: 2018	0.04	No relaxation	BDL (DL - 0.03	
iv	Delta- HCH (Lindane)	μg/l	ANtr/7.2/RES/01: 2018	2	No relaxation	BDL (DL - 0.03	
v	Alachlor	μg/l	ANtr/7.2/RES/01: 2018	0.04	No relaxation	BDL (DL - 0.03	
vi		μg/l	ANtr/7.2/RES/01: 2018	20	No relaxation	BDL (DL - 0.03	
	Aldrin	μg/l	ANtr/7.2/RES/01: 2018	0.03	No relaxation	BDL (DL - 0.03	
vii	Dieldrin	μg/l	ANtr/7.2/RES/01: 2018	0.03	No relaxation	BDL (DL - 0.03	
viii	Butachlor	μg/l	ANtr/7.2/RES/01: 2018	125	No relaxation	BDL (DL - 0.03	
ix	p,p´-DDE	μg/l	ANtr/7.2/RES/01: 2018	1	No relaxation	BDL (DL - 0.03	
X	o,p'-DDE	μg/l	ANtr/7.2/RES/01: 2018	1	No relaxation	BDL (DL - 0.03	
xi	p,p'-DDD	μg/l	ANtr/7.2/RES/01: 2018	1	No relaxation	BDL (DL - 0.03)	
xii	o,p'-DDD	μg/l	ANtr/7.2/RES/01: 2018	1	No relaxation	BDL (DL - 0.03)	
xiii	o,p'- DDT	μg/l	ANtr/7.2/RES/01: 2018	1	No relaxation		
xiv	p,p'- DDT	μg/l	ANtr/7.2/RES/01: 2018	1	No relaxation	BDL (DL - 0.03)	
XV	Endosulphan	AL T			rotetaxation	BDL (DL - 0.03)	
	Alpha-Endosulphan	9					
	Beta-Endosulphan	μg/l	ANtr/7.2/RES/01: 2018	0. 4	No selection	DDI DI	
	Endosulphan sulphate	1		0. 4	No relaxation	BDL (DL - 0.03)	

□ Please refer last Page for Note and Remarks.

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Radha Pawar Chemist

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Test Report

Test Report No.: ALPL/30092023/2-7

Issued To:-	Sample Inward No.	AT DY MODERATE TO		Page 5 of 5		
M/s. Hindalco Industries Ltd.,	Inward Date	ALPL/20092023/ENV-219/1-GW-1 20/09/2023	Analysis Start Analysis End	21/09/2023 25/09/2023		
Kudag Village, P.O. Dumarkholi, Tehsil Samri (Kusmi),	Reference	Report Issue Date	30/09/2023			
Disrict: Balrampur (C.G)	Reference Date	20/05/2023	Sample Category Ground Water			
Sample Name Ground Water		ole Collected By tative Mr. Kailash Chahande	Quantity 5 L & 2	Received		
Sampling Location Saraidih (Hindalco Campus)	Sample Source Borewell Water	Sampling Date 12/09/2023	Samplin	pling Time 2.20 pm		

TEST RESULTS

S.N.	Test Parameter	Measurement Unit Test Method		Requirer IS 105 (Drinking Wat Including An	Test Result		
44	Pesticide Residues Organopho			Acceptable Limit	Permissible Limit #	1	
xvi	2.4 Dishlarash						
xvii	2,4-Dichlorophenoxyacetic acid	μg/l	ANtr/7.2/RES/02:2018	30	No relaxation	BDL (DL - 0.03)	
	Monocrotophos	μg/l	ANtr/7.2/RES/02: 2018	1	No relaxation	BDL (DL - 0.03)	
xviii	Atrazine	μg/l	ANtr/7.2/RES/02:2018	2	No relaxation		
XIX	Parathion methyl	μg/l	ANtr/7.2/RES/02:2018	0.3		BDL (DL - 0.03)	
XX	Paraoxon methyl	μg/l	ANtr/7.2/RES/02: 2018	0.5	No relaxation	BDL (DL - 0.03)	
xxi	Isoproturon	μg/l	ANtr/7.2/RES/02 : 2018	9		BDL (DL - 0.03)	
xxii	Malathion	μg/l	ANtr/7.2/RES/02: 2018		No relaxation	BDL (DL - 0.03)	
xxiii	Malaoxon	μg/l	ANtr/7.2/RES/02:2018	190	No relaxation	BDL (DL - 0.03)	
xxiv	Ethion					BDL (DL - 0.03)	
XXV	Chlorpyrifos	μg/l	ANtr/7.2/RES/02: 2018	3	No relaxation	BDL (DL - 0.03)	
xxvi	Phorate	μg/l	ANtr/7.2/RES/02 : 2018	30	No relaxation	BDL (DL - 0.03)	
	Phorate-sulfone	μg/l	ANtr/7.2/RES/02 : 2018	2		Services Courses on the	
	Phorate-sulfoxide	re'	7.2/KES/02 . 2018	2	No relaxation	BDL (DL - 0.03)	

NOTES: Please see watermark "Original Test Report" to confirm the authenticity of this report. Results shall be referred to tested sample(s) and applicable to tested parameters only Test report shall not be reproduced except in full without prior written approval of Anacon Labs. Liability of Anacon Labs is limited to invoiced amount only. Non-perishable and perishable sample(s) shall be disposed off after 30 days and 15 days respectively from the date of issue of Test Report, unless specified otherwise. Permissible limit in absence of an alternate source for drinking water. mg/l' is equivalent to 'ppm'. 'ug/l' is equivalent to 'ppb'. BDL- Below detection limit. DL- DL Indicates detection limit of instrument // method and shall be considered as 'absent'. Result for test no. 11 is not relevant. ANqr RES-: Inhouse validated method.

REMARKS: As requested by the client, sample was tested for above parameters only. Sample complies with IS:10500:2012, for tests conducted, indicating that it is fit for drinking purpose with respect to tested parameters.

Verified By

Radha Pawar Chemist

Authorized Signatory

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

-END OF REPORT-



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Test Report

Test Report No.: ALPL/30092023/2-8

Page 1 of 5 Issued To:-Sample Inward No. ALPL/20092023/ENV-219/1-GW-2 **Analysis Start** 21/09/2023 M/s. Hindalco Industries Ltd., **Inward Date** 20/09/2023 Analysis End 25/09/2023 Kudag Village, P.O. Dumarkholi, Reference Report Issue 30/09/2023 13562310015 Tehsil Samri (Kusmi), Date Reference Date Disrict: Balrampur (C.G) Sample Category Ground Water 20/05/2023 Sample Name Sample Collected By Quantity Received Ground Water Anacon Representative Mr. Kailash Chahande 5 L & 250ml Sampling Location Sample Source Sampling Date Sampling Time Kudag Village Borewell Water 12/09/2023 12.50 pm

			TEST RESULTS	S. Z.	7	o pin	
S.N.	Test Parameter	Measurement Unit	Test Method	Requireme IS 10500 (Drinking Water Including Ame	Test Result		
	D. 1	Acceptable Limit					
I	Biological Testing 1. Water		41	~	Limit #		
1	Coliform	Per 100 ml	IS 15185 : 2016	Absent	Absent	41	
2	Escherichia coli	Per 100 ml	IS 15185 : 2016	Absent	Absent	Absent	
П	Chemical Testing 1. Water			riosciii	Absent	Absent	
3	Alkalinity (as CaCO ₃)	mg/l	IS 3025 (Part 23): 1986	200	(00		
4	Ammonia (as N)	mg/l	IS 3025 (Part 34): 1988	0.5	600	182.57	
5	Anionic surface active agents (as MBAS)	mg/l	IS 13428 : 2005 Annex K		No relaxation	BDL (DL - 0.1)	
6	Colour	Hazen units	IS 3025 (Part 4) : 2021	0.2	1.0	BDL (DL - 0.01	
7	Cyanide (as CN)	mg/l	IS 3025 (Part 27): 1986	5	15	1	
8	Chloride (as Cl)	mg/l	IS 3025 (Part 27): 1988	0.05	No relaxation	BDL (DL - 0.005	
9	Calcium (as Ca)	mg/l	IS 3025 (Part 32):1988	250	1000	32.64	
10	Chloramines (as Cl ₂)	mg/l		75	200	57.13	
11	Free residual chlorine	mg/l	IS 3025 (Part 26) : 2021	4.0	No relaxation	BDL (DL - 0.1)	
12	Fluoride (as F)	mg/l	IS 3025 (Part 26) : 2021	Min. 0.2	1	BDL (DL - 0.1)	
13	Magnesium (as Mg)		IS 3025 (Part 60) : 2008	1.0	1.5	0.21	
14	Nitrate (as NO ₃)	mg/l	IS 3025 (Part 46): 1994	30	100	12.68	
15	Odour	mg/l	APHA 23 rd Edition	45	No relaxation	BDL (DL - 2)	
16	pH		IS 3025 (Part 5): 2018	Agreeable	Agreeable	Agreeable	
17	Phenolic compounds (as C ₆ H ₅ OH)	-	IS 3025 (Part 11): 2022	6.5 to 8.5	No relaxation	8.16 at 25°C	
18	Sulphate (as SO ₄)	mg/l	IS 3025 (Part 43): 1992	0.001	0.002	BDL (DL - 0.001	
19	Sulphide (as H ₂ S)	mg/l	IS 3025 (Part 24): 2022	200	400	21.37	
20	Taste	mg/l	IS 3025 (Part 29): 1986	0.05	No relaxation	BDL (DL - 0.03)	
21	Total dissolved solids	-	IS 3025 (Part 8): 1984	Agreeable	Agreeable	Agreeable	
22	Turbidity	mg/l	IS 3025 (Part 16): 2023	500	2000	462	
23		NTU	IS 3025 (Part 10): 1984	1	5	0.3	
24	Total hardness (as CaCO ₃)	mg/l	IS 3025 (Part 21): 2009	200	600	194.90	
	Mineral Oil ase refer last Page for Note and Remar	mg/l	ANtr/7.2/RES/06	1	No relaxation	BDL (DL - 0.1)	

Please refer last Page for Note and Remarks.

Verified By

Snehal Raut Deputy Technical Manager Chemist

Authorized Signatories

Pooja Kathane Technical Manager Dr. (Mrs.) S.D. Garway Quality Manager

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Test Report

Test Report No.: ALPL/30092023/2-8

Issued To:-	Sample Inward No.			Page 2 of 5	
M/s. Hindalco Industries Ltd.,	Inward Date	ALPL/20092023/ENV-219/1-GW-2 20/09/2023	Analysis Start Analysis End	21/09/2023 25/09/2023	
Kudag Village, P.O. Dumarkholi, Tehsil Samri (Kusmi),	Reference	13562310015	Report Issue Date	30/09/2023	
Disrict: Balrampur (C.G)	Reference Date	20/05/2023	Sample Category Ground Wat		
Sample Name Ground Water		ole Collected By tative Mr. Kailash Chahande	Quantity 5 L & 2	Received	
Sampling Location Kudag Village	Sample Source Borewell Water		g Time		
			12.50	pm	

TEST RESULTS

			TEST RESULTS			
S.N.	Test Parameter	Test Parameter Measurement Unit		Require IS 10: (Drinking Wa Including A	Test Result	
124				Acceptable Limit	Permissible Limit #	1
II	Chemical Testing 2. Residues In Water			Comme	Limit #	
25	Arsenic (as As)	mg/l	IS 3025 (Part 37) : 2022	0.01	No relaxation	DDI (DI 0.01
26	Aluminium (as Al)	mg/l	IS 3025 (Part 2): 2019	0.03	0.2	BDL (DL - 0.01
27	Barium (as Ba)	mg/l	IS 3025 (Part 2): 2019	0.7	No relaxation	BDL (DL - 0.01
28	Boron (as B)	mg/l	IS 3025 (Part 2): 2019	0.5	2.4	BDL (DL - 0.01
29	Copper (as Cu)	mg/l	IS 3025 (Part 2): 2019	0.05	1.5	BDL (DL - 0.1)
30	Cadmium (as Cd)	mg/l	IS 3025 (Part 2): 2019	0.003	No relaxation	BDL (DL - 0.03
31	Iron (as Fe)	mg/l	IS 3025 (Part 2): 2019	1.0	No relaxation	BDL (DL - 0.001
32	Lead (as Pb)	mg/l	IS 3025 (Part 2): 2019	0.01	No relaxation	0.17
33	Manganese (as Mn)	mg/l	IS 3025 (Part 2): 2019	0.1	0.3	BDL (DL - 0.001
34	Mercury (as Hg)	mg/l	IS 3025 (Part 48): 1994	0.001		BDL (DL - 0.05
35	Molybdenum (as Mo)	mg/l	IS 3025 (Part 2): 2019	0.001	No relaxation	BDL (DL - 0.000)
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	0.02	No relaxation	BDL (DL - 0.01)
38	Silver (as Ag)	mg/l	IS 13428 (Annex J): 2005	0.01	No relaxation	BDL (DL- 0.001
39	Total Chromium (as Cr)	mg/l	IS 3025 (Part 2): 2019	0.05	No relaxation	BDL (DL - 0.001
40	Zinc (as Zn)	mg/l	IS 3025 (Part 2) : 2019	5	No relaxation	BDL (DL - 0.03)
ъ.	as well at D		10 0020 (1 at 2) . 2019	3	15	BDL (DL - 0.

Please refer last Page for Note and Remarks.

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Technical Manager

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Test Report

Test Report No.: ALPL/30092023/2-8

Sample Inward No.	AT DI /20002000 ma		Page 3 of 5		
Inward Date	ALPL/20092023/ENV-219/1-GW-20/09/2023	- Litary Sis Start	21/09/2023 25/09/2023		
Reference	13562310015	Report Issue	30/09/2023		
Reference Date	20/05/2023	Sample Category Ground Wat			
	le Collected By	Quantity Received			
Sample Source Borewell Water	Sampling Date 12/09/2023		ng Time		
	Reference Reference Date Samp Anacon Represent Sample Source	Inward Date 20/09/2023 Reference 13562310015 Reference Date 20/05/2023 Sample Collected By Anacon Representative Mr. Kailash Chahande Sample Source Sampling Date	Inward Date 20/09/2023 Analysis Start Reference 13562310015 Report Issue Date Reference Date 20/05/2023 Sample Category Sample Collected By Anacon Representative Mr. Kailash Chahande 5 L & 2 Sample Source Sampling Date Sampling Borewell Water 12/09/2023		

			TEST RESULTS	09/2023	12.30) pm					
S.N.	Test Parameter	Measurement Unit	Test Method	(Drinking Wat Including A	ment as per 500 : 2012 ter Specifications) mendment No. 4	Test Resu					
П	Chemical Testing			Acceptable Limit	Permissible Limit #						
	2. Residues In Water				Limit #						
41	Polychlorinated biphenyls										
	2,2',5-trichlorobiphenyl	μg/l	AND TO A TO THE SECOND								
	2,4,4'-trichlorobiphenyl	μg/l μg/l	ANtr/7.2/RES/04: 2018			BDL (DL - 0.0					
	2,2',5,5'-tetrachlorobiphenyl		ANtr/7.2/RES/04: 2018	1		BDL (DL - 0.					
	2,2',4,5,5'-pentachlorobiphenyl	μg/l	ANtr/7.2/RES/04: 2018			BDL (DL - 0.					
	2,2',3,4,4',5'-hexachlorobiphenyl	μg/l	ANtr/7.2/RES/04: 2018	0.5	No relaxation	BDL (DL - 0.					
	2,2',4,4',5,5'-hexachlorobiphenyl	μg/l	ANtr/7.2/RES/04: 2018			BDL (DL - 0.					
	2,2',3,4,4',5,5'-heptachlorobiphenyl	μg/l	ANtr/7.2/RES/04: 2018			BDL (DL - 0.					
12	Polynuclear aromatic hydrocarbons	μg/l	ANtr/7.2/RES/04: 2018			BDL (DL - 0.					
	Naphthalana										
	Acenaphthylene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.0					
- 1	Acenaphthene	µg/I	ANtr/7.2/RES/03: 2018			BDL (DL - 0.					
- 1	Fluorene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.					
- 1	Anthracene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.0					
- 1	Phenanthrene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.0					
1	Fluoranthene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.0					
1	Pyrene	μg/l	ANtr/7.2/RES/03: 2018		100	BDL (DL - 0.0					
1	Benzo(a)anthracene	μg/1	ANtr/7.2/RES/03: 2018	0.1	Manual	BDL (DL - 0.0					
ı	Chrysene	μg/l	ANtr/7.2/RES/03: 2018	0.1	No relaxation	BDL (DL - 0.0					
t	Benzo(a)pyrene	μg/l	ANtr/7.2/RES/03: 2018		İ	BDL (DL - 0.0					
ı	Benzo(b)fluoranthene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.0					
1	Benzo(k)fluoranthene	μg/l	ANtr/7.2/RES/03: 2018		ŀ	BDL (DL - 0.0					
h	Indeno(123,cd)pyrene	μg/l	ANtr/7.2/RES/03: 2018		ŀ	BDL (DL - 0.0					
h	Dibenzo(a,h)anthracene	μg/l	ANtr/7.2/RES/03: 2018		1	BDL (DL - 0.0					
	Benzo(ghi)perylene	μg/l	ANtr/7.2/RES/03: 2018		<u> </u>	BDL (DL = 0.0					
	Straw(gm/peryiene	μg/l	ANtr/7.2/RES/03: 2018		1	BDL (DL = 0.0					

Please refer last Page for Note and Remarks.

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Radha Pawar Chemist **Authorized Signatory**



S.N.

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xiv

XV

Anacon Laboratories

Measurement

Unit

mg/l

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Test Report

Test Report No.: ALPL/30092023/2-8

Test Parameter

Dibromochloromethane

Bromodichloromethane

Gamma - HCH (Lindane)

Pesticide Residues Organochlorine

Trihalomethanes Bromoform

Chloroform

Alpha-HCH

Delta- HCH

Alachlor

Aldrin

Dieldrin

Butachlor

p,p'-DDE

o,p'-DDE

p,p'-DDD

o,p'-DDD

o,p'- DDT

p,p'-DDT

Endosulphan Alpha-Endosulphan Beta-Endosulphan

Beta HCH

Issued To:-	Sample Inward No.	AT DY MODERN		Page 4 of 5	
M/s. Hindalco Industries Ltd.,	Inward Date	ALPL/20092023/ENV-219/1-GW-2 20/09/2023	Analysis Start Analysis End	21/09/2023 25/09/2023	
Kudag Village, P.O. Dumarkholi, Tehsil Samri (Kusmi),	Reference	13562310015	Report Issue Date	30/09/2023	
Disrict: Balrampur (C.G)	Reference Date	20/05/2023	Sample Category Ground Water		
Sample Name Ground Water	Samp Anacon Represent	le Collected By ative Mr. Kailash Chahande	Quantity Received 5 L & 250ml		
Sampling Location Kudag Village	Sample Source Borewell Water	Samplin 12.50	ng Time		
	TEST	12/09/2023 TRESULTS	12.50	pin	

Test Method

ANtr/7.2/RES/05: 2018

ANtr/7.2/RES/01: 2018

0.4

Requirement as per IS 10500: 2012 (Drinking Water Specifications) Test Result Including Amendment No. 4 Acceptable Limit | Permissible Limit # 0.1 No relaxation BDL (DL -0.05) 0.1 No relaxation BDL (DL -0.05) 0.06 No relaxation BDL (DL -0.05) 0.2 No relaxation BDL (DL -0.05) 0.01 No relaxation BDL (DL - 0.01) 0.04 No relaxation BDL (DL - 0.03) 2 No relaxation BDL (DL - 0.03) 0.04 No relaxation BDL (DL - 0.03) 20 No relaxation BDL (DL - 0.03) 0.03 No relaxation BDL (DL - 0.03) 0.03 No relaxation BDL (DL - 0.03) 125 No relaxation BDL (DL - 0.03) No relaxation BDL (DL - 0.03) No relaxation 1 BDL (DL - 0.03) No relaxation BDL (DL - 0.03)

Please refer last Page for Note and Remarks.

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Endosulphan sulphate

Radha Pawar Chemist

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BDL (DL - 0.03)

No relaxation



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Test Report

Test Report No.: ALPL/30092023/2-8

Commis I	4.7 PX - 12-12-12-12-12-12-12-12-12-12-12-12-12-1		Page 5 of 5		
Inward Date		joio otare	21/09/2023		
	20/09/2023		25/09/2023		
Reference	13562310015	Report Issue Date	30/09/2023		
Reference Date	20/05/2023	Sample Category	Sample Category Ground Water		
		Quantity Received 5 L & 250ml			
Sample Source Borewell Water	Sampling Date 12/09/2023	Samplin	pling Time 2.50 pm		
	Reference Date Samp Anacon Represent Sample Source	Inward Date 20/09/2023 Reference 13562310015 Reference Date 20/05/2023 Sample Collected By Anacon Representative Mr. Kailash Chahande Sample Source Sampling Date	Inward Date 20/09/2023 Analysis Start Reference 13562310015 Report Issue Date Reference Date 20/05/2023 Sample Category Sample Collected By Anacon Representative Mr. Kailash Chahande 5 L & 2 Sample Source Sampling Date Sampling Date		

TEST RESULTS

S.N.	Test Parameter	Arameter Measurement Unit		Requirer IS 105 (Drinking Wat Including An	Test Result	
44	Posticida Paridos O	•		Acceptable Limit	Permissible Limit #	
	Pesticide Residues Organopho	osphorus				
xvi	2,4-Dichlorophenoxyacetic acid	μg/l	ANtr/7.2/RES/02: 2018	30	No relaxation	BDL (DL - 0.03
xvii	Monocrotophos	μg/l	ANtr/7.2/RES/02:2018		No relaxation	BDL (DL - 0.03
xviii	Atrazine	μg/l	ANtr/7.2/RES/02: 2018	2	No relaxation	BDL (DL - 0.03)
xix	Parathion methyl	μg/l	ANtr/7.2/RES/02:2018	0.3	No relaxation	BDL (DL - 0.03)
XX	Paraoxon methyl	μg/l	ANtr/7.2/RES/02:2018	•	roleiaxation	
xxi	Isoproturon	μg/l	ANtr/7.2/RES/02:2018	9	No relaxation	BDL (DL - 0.03)
xxii	Malathion	μg/l	ANtr/7.2/RES/02:2018	190		BDL (DL - 0.03)
xxiii	Malaoxon	μg/l	ANtr/7.2/RES/02:2018	170	No relaxation	BDL (DL - 0.03)
xxiv	Ethion	μg/l	ANtr/7.2/RES/02:2018	3		BDL (DL - 0.03)
XXV	Chlorpyrifos		ANtr/7.2/RES/02 : 2018		No relaxation	BDL (DL - 0.03)
xxvi	Phorate	μg/l	71.2/INES/02 . 2018	30	No relaxation	BDL (DL - 0.03)
	Phorate-sulfone	μg/l	ANtr/7.2/RES/02 : 2018	2		
	Phorate-sulfoxide	MB/I	7.14th / .2/RES/02 . 2018	2	No relaxation	BDL (DL - 0.03)

NOTES: Please see watermark "Original Test Report" to confirm the authenticity of this report. Results shall be referred to tested sample(s) and applicable to tested parameters only Test report shall not be reproduced except in full without prior written approval of Anacon Labs. • Liability of Anacon Labs is limited to invoiced amount only. • Non-perishable and perishable sample(s) shall be disposed off after 30 days and 15 days respectively from the date of issue of Test Report, unless specified otherwise. • #Permissible limit in absence of an alternate source for drinking water. • 'mg/l' is equivalent to 'ppm'. • 'µg/l' is equivalent to 'ppb'. • BDL- Below detection limit. • DL- DL Indicates detection limit of instrument /method and shall be considered as 'absent'. • Result for test no. 11 is not relevant. • ANqr RES-: Inhouse validated method.

REMARKS: As requested by the client, sample was tested for above parameters only. Sample complies with IS:10500:2012, for tests conducted, indicating that it is fit for drinking purpose with respect to tested parameters.

Verified By

Radha Pawar Chemist

Authorized Signatory

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

---END OF REPORT---



Project Name:

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

Annexure-E

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

Kudag Bauxite Mines Of M/s Hindalco Industries Limited

	•															
Pr	Project Address:				Village	e Kuda	g Bloc	k Kusm	i					11 11		
Vi	llage:				Kuda	3				Block:	Kusr	usmi				
Di	istrict:				Balrar	npur				State:	Chha	hattisgarh				
Pi	n Code:															
Communication Address: Hindalco Industries Limited, Samri Mines Division, Baba Chowk, At A Kusmi, , Balrampur, Chhattisgarh - 497224						At And F	Po-									
Address of CGWB Regional Office : Central Ground Water Board North Central Chhattisgarh, 2nd Floo And Logistic Park, Dhamtari Road, Nh-30, Dumartarai, Raipur, Chl 492015																
1.	NOC No.:		CGW	WA/NOC/MIN/REN/2/2023/7570				2.	Date o	of Issuen	ce 03	3/04/202	23			
3.	Application	No.:	21-4/	1433/C	T/MIN/2	2018			4.		ategory: Safe GWRE 2020)					
5.	Project Sta	itus:	Existi	ng Gro	und Wa	ter		\overline{A}	6.	NOC 7	NOC Type: Renewal					
7.	Valid from	1	29/04	/2023					8.	Valid	up to:	28	28/04/2025			
9.	Ground Wa	ater Abst	raction	Permit	ted:											
	Fresh	Water			Saline	Water			De	waterin	g		Total			
	m³/day	m³/ye	ar	m³/	day	m³	/year	n	n³/day	r	n³/year	m ³	³/day	m³	/year	
	2.00	620.0	00		- 1	1										
10.	Details of g	ground wa	ater ab	stractio	n /Dew	atering	struct	ures								
			Tota	al Exist	ing No	.:3					To	tal Prop	osed N	lo.:0		
				DW	DCB	BW	TW	MP	MPu	DW	DCB	BW	TW	MP	MPu	
	Abstraction		a B	0	0	1	2	0	0	0	0	0	0	0	0	
	V- Dug Well; DO		4						e Pit;MPu	u-Mine Pu	ımps					
11.	Ground Wa	ater Abst	raction	/Restor	ation C	harges	paid (Rs.):				62	0.00			

(Compliance Conditions given overleaf)

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

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

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.cgwa-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.)

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,:	21-4/1433/CT/MIN/2018			
Name of Firm:	KUDAG BAUXITE MINES OF M/S HINDALCO INDUSTRIES LIMITED			
AppType Category:	Base Metal Ores		,	
Application Type:	Mining		1	
PAN/GSTIN No. of Firm/Individual:		/		

S	Description	Amount (Rs.)
1.	Application Processing Fee	1000.00
2.	Ground Water Abstraction /Restoration charges	620.00
3.	Environmental Compensation Charges (ECRGW) (Date From to) Days-	
4.	Penalty for non-Compliance of NOC conditions Condition to be mentioned	
	Rs. Rupees One Thousand Six Hundred Twenty Only	1620.00

This is an system generated invoice, hence, does not require ink signed.

HINDALCO INDUSTRIES LIMITED

Kudag Bauxite Mines

Self Help Group (SHGs), Kudag

No. of SHGs: 12

No of Beneficiaries: 120

No of group linked with bank: 12

Average Saving / Group – Rs. 10,000/- **Rs. 10,000**/-

Facility provided to groups: Register, Passbook, Dari, Sewing Machine,

Income Generation training and other exposure programme like linkages with bank

and training with NRLM.

Groups engaged in income generation

activities:

12

Unit	Unit: Hindalco Industries Limited, Samri Mines Division						
SHGs Details: Kudag							
					A/C D	etails	Economic
Sl. No	SHG Name	Village Name	District Name	No. of Members	Members Savings in Bank A/C	Bank Loan Received	Activity Name
1	Nuri Self Help Group	Saraidih	Balrampur	10	7041.00	-	Agriculture
2	Shabnam Self Help Group	Saraidih	Balrampur	10	7984.00	-	Agriculture
3	Suhana Self Help Group	Saraidih	Balrampur	10	5755.00	-	
4	Rupa Self Self- Help Group	Saraidih	Balrampur	10	4755.00	-	Agriculture
5	Sushila Self Help Group	Banjutoli	Balrampur	10	6500.00	-	Agriculture
6	Chameli Self Help Group	Bata	Balrampur	10	2625.00	-	Agriculture
7	Chameli Self Help Group	Bata (Banjutoli)	Balrampur	10	7000.00	-	Agriculture
8	Punam Self Help Group	Balapani	Balrampur	10	19500.00	-	Agriculture
9	Gulab Self Help Group	Kudag	Balrampur	10	13134.00	-	Agriculture
10	Shubham Self Help Group	Balapani	Balrampur	10	6500.00	-	Agriculture
11	Chameli Self Help Group	Kudag	Balrampur	10	12000.00	-	Agriculture
12	Resham Self Help Group	Kudag	Balrampur	10	8000.00	-	Agriculture



Kudag Bauxite Mines

Six monthly Average Ambient Air Quality Data

Period: April 2023 to September 2023

M 4h	Monitoring	Monitoring Parameters				
Month	Location	PM ₁₀ (μg/m ³)	$PM_{2.5} (\mu g/m^3)$	SO ₂ (μg/m ³)	NOx (μg/m ³)	
Apr-23		68.7	31.3	14.8	31.5	
May-23		69.9	28	13.9	30.5	
Jun-23		64.5	28.6	16.2	29.3	
Jul-23	Sairaidh	60.7	28.3	10.9	22.3	
Aug-23	Campus	66.3	29.5	15.8	22.2	
Sep-23		71.1	31.7	18.3	24.9	
Six Monthly Average		66.9	29.6	15.0	26.8	
Apr-23		69.6	30.5	14.5	31.7	
May-23		70.8	30.4	15.9	39.5	
Jun-23	N	64.2	25.5	12.5	20.3	
Jul-23	New Kudag/Nr.	54.3	25.7	9.6	18.5	
Aug-23	Weigh Bridge	64.6	28.3	15.7	20.6	
Sep-23		66.0	30.4	15.8	22.2	
Six Monthly Average		64.9	28.5	14.0	25.5	
Apr-23		69.3	32.3	16.0	32.6	
May-23		69.0	29.9	17.9	39.7	
Jun-23	011	58.3	23.0	14.6	26.0	
Jul-23	Old Kudag/Mining	60.8	28.9	10.6	19.3	
Aug-23	Area	73.1	29.4	11.4	26.2	
Sep-23		67.8	30.7	14.3	21.7	
Six Monthly Average		66.4	29.0	14.1	27.6	
Apr-23		71.1	27.0	15.0	28.9	
May-23		70.3	30.3	17.7	32.5	
Jun-23	Samri Gopatu/ Nr. Weigh Bridge	55.8	24.8	12.7	21.1	
Jul-23		52.4	25.0	10.4	18.7	
Aug-23		60.4	27.1	10.0	19.8	
Sep-23		64.9	31.1	18.9	24.6	
Six Monthly Average		62.5	27.6	14.1	24.3	
NAAQ Standard		100	60	80	80	

For Hindatco Industries Limited



Hindalco Industries Limited

Mines Division, Samri

Date: 04.01.2023

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.

Sl. No.	Name	Designation	Position
01	Mr. Vijay Chauhan	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

For Hindalco Industries Ltd.

Agent of Mines Singh Chauhan Head Mines

Tel: +91 226691 7000 / Fax: +91 226691 7001

Corporate Identity No. - L27020MH1958PLC011238

दजन जुआारया स । / हजार वरामद

बड़-छोटे जुआरी एक ही दिन पकड़े गए

गते हुए पश्ती के म छोड़े-बड़े देंद

। जुआरियों को

हासार 'कपए

मद करने में

व्यवा पाई है।

म सुबर ओहा

ऐसे लोग भी

॥ छोलते पकडे

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कंप मचा कई है।

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पुलिस ने जीकीरात सक्रियता

(रिभृषि च्यूज (अस्विकानुर)। रामगोपाल अस्त्राल को दौ दाकर थर एकीया। इस जुआ फड़ ने प्रक्रिस ने 11700 रूपए एवं ताल के यती

लिए रखें 52 मी रूपए व तास के यसे यस किए नए हैं। पुलिस की यह अजीवाई राजि 8 वजे एवं 9 सते के बाच की

开用证

पोश्च में बैस्फ

दांव लगा रहे

राजय प्रसाद, गब् समाद

पुतिस का यह अभियान आज सुवर् भी कारी रहा। ज्यार फे अलीपादा मोहब्रे स्थित गोठा तासाम के हार जीत का

ऐसे लोग भी चीतते हैं जुआ

बरामद किया है। इसके नाद पुलिस पुरित्त अधीराम हेम्कुण राठीर निर्देशन में ग्रायमची जे लार को टीम भीवहाजारा पहुंचा । यहाँ पर बुआ खेल रहे सुरेश लकड़ा, रेजन हर का नेदाय में बोलो एव नगर भगानी, राक्षेत्र सिंह, घशीर खान, स्थान गुना, संतोष को विशासत में सक यसर कार्यको, विशेष क्षेत्रर इनके क्षेत्रों से राज समाने के शस के प्रभारों जानीहास्त सिंह,

सन् गठक उपाध्याय, विकास यादव को रंगे हाथे प्रकार दशके। कार्य मी सामभाग 250 कमाप एवं ताश के पसे जन्म किए गए हैं। सभी जुआरियों पर पुलिस ने 13 जुआ एसर का आरंगई को है।

Annexue-1

प्रिडले वर्ष शुक्त किया गया है । इसमें सारों को सिखान के लिए संसाधन हा उपलब्ध नहीं है। समाधन और महोने नहीं रहते के करीन अर्देरीआई के प्रशिक्षणाओं वर्ष भर आदेवीमार संस्था में आते थे और बिना कुछ किए पूस कर यर मापस चंते जाते थे। उन्हें पॉन्टकल की भी जानकारों नहीं दो गई। ऐसे में प्रशिक्षणार्थियों को भविष्य अधिर में है। छात्रें का कहता है कि 20 अगस्त से व्यक्ति परोक्षा शुरू है। ध्योरी की पहाई नहीं हुई है किंगू किसी गरह रेंट कर अवंधि की परीक्षा को छतीयाँ कर लेने जिल्ले प्रेजिटकान का धोड़ा भी तान नहीं है। उन्होंने नतामा कि प्रशिक्षपार्थियों के द्वार स्वयं देख

प्राचितिक परीक्षा में जिल्हा प्रका गरेशको होती तो प्रतिस्थानियो सहापुर्वत पुत्रक विशास वि अपूर्वा निवास संस्थापन तपत्रक उसकी अभार पर अध्यानन बाग्या गया है। परीक्षा की है अधित भारतीय स्टर पर निध की जानी है इसलिए परीक्षा की है परिवर्तन करना संभव गहीं है। अवसर पर पुष कांग्रेस के प्र विषयसाद अप्रकृति, सुनीत विष आलोड, यदक विकास पिछ, र विकृत, रेक्न सिन्हा, आसुरोप र शैलेष गुमा, अभिन्न चीप, प्रदीय गंधीय साना एमकात मित्रा र काफो संख्या में आइंटोआई बाराज्यायां उपस्थित थे।

स्वतंत्रता सेनानियों को श्रह्माजित देने आज जुटेंगे कार्य आध्याकपुर स्वापन स्वापन संगमिती के संग्रह वर्ष बालदाई वर स्थापन है 9 अंगरत को सुबद्ध 10 सर्व विशेष करोगर स्वापन कोई पर में बहुम्बाल अ को प्रारंगा। नंतर कराक कार्यस अमेरी के अध्यक्ष गणेग किंद्र राकुर में ब्रे दिवस पर मुक्त कार्यम केंग दश, परिचा कार्यम, प्रच्यापुत्रम पर्व क करिए के सभी प्रदर्भकार्यों पूर्व अर्थ कार्यित जा से इस कार्यका व्यक्तिक मार्ग को अपील को है।

हरिस्मि अधिवकापुर जिला कार्यालय वे प्रसार मार्केटिंग में कार्य करने के लिए उत्साही, योग्स सथा अनुभवी या प्रेमार मुचक व युवतियों की शीव अववृक्षकता

उन्मीववारों में निर्मालेखित योग्यता होना अनिवार्ध है

- 12 वी वा स्थातक उत्तीर्ण होना पाहिए।
- » आयु ३० वर्ष से अधिक नहीं होनी साहिछ।
- कंपनी द्वारा संचालित इवेंट में कार्य कर सभी तथा संबातित करने हेतु नगर से बाहर भी पा स्वेश
- » उथित निर्णय सेवे में सवास हो।

े वेलयमाग-योज्यतानुसार वेदान येय होराह.

कार्य का समय प्रातः र हो 2 बजे राक फीटड कर्त सार्य व से ६ वजा तुन्त्र विपोर्टिंग

मिल्ले का सन्द सायं ५ मार्ग से व वर्ष सक

वायालय प्रमुख

सरगुजा जिला कार्यालय केद्रारपुर, वढे पानी टंकी के पास अस्विकापुर (छ.ग.) फोना ०,७७७ ४ - 220 ग. 6. मो ,98261-19698, 98761-62296, 98930-877

पुत्र एका के नेएक में निकले हत घल ने मचने पहले हिम बांध-

समीप मुखा खेल यह राजेश ज्ञाल, यनीय अध्यक्त, विक

ब्राश्चीक ने असमान,

M. Sq. Microbiology B.SC. Bio-Technology

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B.A. - B. Cor with one Application

गांति निकेतन सहाविद्यालय गुरुपासीदास वि.वि. से सम्बद्ध

पंजाबी कालोनी रायलबंद विलासपुर dr.- 94252-31236

धवदीय हिण्डालको इण्डस्ट्रीज लिमिटेड सामरी खान ग्रभाग



हिण्डालको इण्डस्ट्रीन लिजिटेड

(सामरी खान प्रभाग)

Sixtell

सर्वसाधारण को गांचन किया जाता है कि धनएवं प्रबंधरण मेंजालय, नई दिलों से उनके पत्र क्रमांक जे.1015/353/2007-IA.IKM) दिनांक 27.07.2007 तथा जे.11015/354/2007-IA.II(M) विनाम 27.07.2007 के तहत हिण्डालकी इंग्डस्ट्रीज लिमिटे ड के सामग्री तथा कृदाग बॉक्साईट खादानी के क्षमता विस्तार (0.50 मिलियन टर्न तथ्रा 0.06 मिलियन टन ऑक्साईट उत्पादन प्रतिवर्ष) हेतु प्रयावरणीय स्वीकृति अनुमादित होकर प्राप्त हो जुकी है। उपरोक्त स्वाकृति पत्र की प्रतिनिधि छ.ग. पर्यावस्या संरक्षण मंइल कार्यालय में उपलब्ध है एवं यन एवं पर्यावरण मंत्रालय की वेबसाईट http://envfor.nic.in पर देखी का सकती है।

ने मध्य चले इस आदोलन में भाग हेने कुरामुण्या, नेवरा, एनटीपीसी, एचटीपीपी, बालको, निष्ठारिका सहित सभी क्षेत्रों के लोगों ने भाग लिया यो मंद्रे तक यहे इस आयोलन में अन्य सभी लोग उपस्थित थे।

पुत्री किरण का वेवाह २० मह पर्देश को तरहतपुर धाना अंतर्गत. ग्राम अमोदा निवानी शमनाध्य के पुत्र राजेंद्रप्रसाद पाठन के पुत्र के साब हुआ था। विवाह के एक साल बाद ही किरण को दहेन के लिए प्रताहित किए जाने लगा।

छतीसगढ प्रदेश के प्रतमान सांसप एवं पूर्व मुख्यमंत्री अजीत प्रमोद जोगी के सुपुत्र अभित जोगी का रथानीय युवा कार्यसलाओं ने जन्म विवस मनाया। परधालगांव के सामुबाधिक स्वास्थ्य केन्द्र के वार्ड में पहुचकर गुता कांग्रेसी कार्यकर्ताओं ने प्रीतभात भारिया के सीयन्य से फल, विस्कुट, बेब को

ितरण किया तथा कांचे सी

क्षाठकोम पूछा

अभीत प्रांती के जन्मवियस के अवसर पर अस्पताल परितर में काड एवं विरिकट वितरण के चक्त हरगोविन्द अंग्रवाल मनीज अम्बस्ट, रवि सादव, निशागुप्रीन, सुरेन्द चेडवानी, शिव असवाल; बेदबान सिदार, अशोक शेक्षित एवं अन्य पानीण करपैकली सपस्थित थे।

ंगीता को कटघोरा का प्रभार

पदोत्रति मिलने वाली थी। संकिन वे अभी स्थानासरण के लिए गहरा

ालाई निगम के आयुक्त उए लगा रहे जोर

यवाय नहीं काल १४ है। प्रदेश शासन दारा : रहे ९४ वंध के अधिकारी आईवे देशमुख को पाजनांदेगांव का 1 (2) हरों अपर कले क्टर पदस्य किया गया के है। डीडी सिंह को जरापुर

अधिकारी नीतिन पंडिय को कलेक्टर मनाए जाने के बाद से राजनादगांव जनर कलेक्टर का पद विगत २-३ मह से रिक्त था। शी देशमुख नवा अंजार परियोजना के अपर लगासक के पद पर प्रामीण जनालक के पद पर पेचायत प्रानी । विवास विभाग में प्रतिनियुक्ति पर थे। इस पीय २००५ बेच के छ प्रशिक्ष आईएस अफसरों को सहायक बालेक्टर के जारी आदेश के अनुसार राप्तरों । यद घर पदस्थ किया गया है। आई एएस अर संगीता को कटचोरा एवं पजत कुमार को सारांगद अनुविभागीय अधिकारी समाया गया है

स जिला अध्यक्ष ने दौरा रयाओं की जानकारी ली

से अपनी भावनाओं से अवगत डों ने घट भी माय रखी कि 5, जन्म क्रेणी शि**सक** एवं केन्द्रीय चेतनमान दिया जाना विराममान मिलने से प्रत्येक ०० से २००० सपए चक का मा। महेगाई महते की घोषणा द्विए तथा महंगाई भरते के जेन्सार होना चाहिए तथा ही राशि केन्द्र की घोषणा के होना चाहिए। जिस तरह से पी. तियों को शिक्षा विभाग में अभिन जाती है उसी प्रकार इस. फील ते भी अग्रिन येखन पुढ़ि नितनी

र्यक्रम में मुख्य क्षय से विश्रासम्ब ाम असाचि ए. पी. सुबे, एव. ो, पो, सिह, ए, के, जैन, के वर्षा श्वना श्रीवास्तव, श्वना पुर क्याक में प्रेमचन्द्र सोनी, डी. तर की भगत स्वनारामण राम ्युलाम मोहम्मद खान, के एन. ठ दुभ्र, आर, भी, सिए, भीसाइ नाक ने दीनानाथ साह, अञ्चयन प्रसाद, लारायम पुत्रह, प्रत्रस्थान

दुवे, भोरेलाल टाकुल, शिया पत सिंह, मुलेबयर सिंह, मुरिनारायण साहू, प्रमृत्याल साहू, प्रमनगर क्षांक रायलक्तू साहू, कृष्णा साहू, रामपाठ साहू, राजेन्द्र जानतार, पितृ राम सिह, राजकुगार पेवन्स, महाल हिंट, पारसपति पेवास श्रीमती मानभति भगत् क्रीमती प्यारी टोप्पो संडवेव शिंड, श्रीमती कलजलता जायसवील, कींगती सुनिता पाण्डेम, यो एन, यादव, मो इसलाम अंसारी, हथान गार्यण सिंह, उदयपुर लाक में चुखराम यादर हरिशंकर मुख्या, मोहेलाल राजवाडे, कतेवहादुर सिंह, प्रमोद कुमार छत्रांच, अलोइस टोपो, अमरनाथ महेत, देववुन्तार बावव, शंकर पण, जन्नश्रीसन, श्रीमती वृत्तीलियंर टोप्पो, रामलात सिंह, छोटेलाल पूबे, सोमारसाय सिंह, सह पर सिंह, राष्ट्रपं राय, श्रीनशी अभयकिशोरी टापी, धनेश्वर सिह. युहन राम सथा अधिकाधिया संख्या में हर बनाक ने रिक्षक-शिविकाएं उपस्थित थी। शिक्षकों के प्रस्ताव को उचित कार्यवाही हेलु इसकी सूर्यना हेतु प्रदेश अध्यक्त सुरेश तिथारी एव उप-प्रान्तक्यक थी. एस सिंह को दे वी गई है। मुख्यमंत्री छलीसगढ़ शासन स्वूल शिक्षा बंबी एहं आदिन जाति र त्याण मंत्री को सभी मांगों जो की जायज चान है स्वीकृत करने हेतु अनुपोध यन किरवा गटा है।

खाद नहीं मिलने को लेकर कृषकों ने निकाली रैली

क्षेत्र के किशानों को छाद गही गिल . कित्तात के लिए व्यापारियों से रहा है, जिसको लेकर कल परधलगांव के कि लान नेता वेदप्रकाश भिन्ना ने जामीण किसानी

निकालकर

अध्य मूंचे समाजा देख परे हैं पू सरी 31 7 7 भा तेली एक रेली आश्वासन मिला एक वो कि सान दिन में होगा उपलब्ध रित्र पर

विस्तार अधिकारी श्री पन्ना से खाद किल्ला के सका में जानकारी मांगी व अमकर नारेब जी की गई। पन्ना ने आरयासन दिवा कि वे एक-दो दिन में खाद पत्थलगांव में सपलका कराई जायेंगी। इस आस्यासन के पश्चात ही रेली में उपस्थित रोक दी किसान वामस जाने को तैयार हुए।

हाथ धर्म प्राचे दामी में खरीवने को मजबूर है। रेली में भवन सम कुण्रूर, धरमसाय कुजूर, मसराय पन्ना, बुक्तकाळ सम्पंच, हेमराम पटेल, जोरोप बजा, सीधां पावन, टिकेश्टर पादव व अन्य किसान मौजूद थे। रेनी की अधुवाई किसान नेता हारा पति गर्छ।

अधिकारियों जारा साठगांठ तक

छन्ने दामों की बिकी पर अधिकारी



हिण्डालको इण्डरटीज लिमिटेड (सामरी खान प्रभाग)

सर्व सामारण को स्थित किया काता है कि प्रण एवं पर्य बरण मंज्ञालयः मह दिल्लो से समके पत्र क्रमांक जे. 11015/353/2007-A. II(M) दिनोक 27.07.2007तचा जे.- 11015/354/2007-A.II(M) दिनांक 27.07.2007 के नहन विश्वसंख्या उण्डार्ट त लिमटेड के सामरी तथा कुदाग बाबसाइंट खदानों के क्षमता विकास (०.५० मिलियन इन तथा ०.०६ भिलियन देन खाँचसाईट ग्रापादन प्रतिवर्ष) हतु पर्यावस्थीय स्वीकृति अनुमोदित होकर प्राप्त हो सुन्धी है। स्वरोक्त स्व कृति पत्र की प्रतितिपिष् छ ग, पर्योक्त मेरस्या संहल कापालय में उपलब्ध है एवं जन एवं पर्यावरण संश्रालय की बेबसाईट http://envior.nic.ip. परभी देखी जा सकती है।

अवर्ग्य विवादालको प्रकारीज निविदेव चामरी खान प्रमास

आविकतावानी 33711EA 200

Hindalco Industries Limited Samri Mines Division

Actual Expenditure incurred in Environment Management Plan

Total cost incurred for protection of Environment in Samri, Tatijharia & Kudag Bauxite mine of Hindalco Industries Limited of Chhattishgarh State during the April-2023 to September-2023).

Sl. No.	Environment Protection Measure	Actual Cost (Lakh) April-September 2023
01	Environment Monitoring	3.54
02	Greenbelt development	2.95
03	Reclamation/ rehabilitation of mined out area (Samri-1.6Ha., Kudag-0,466Ha., Tatijharia-0.640Ha.) Total- 2.706 Ha.	8.118
	Total	14.608

- Environment Monitoring Job has been out sourced 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.

Agent of Mines
Samm Mines Division
For Hindalco Industries Islamited Istnes Ltd

Annexure-K

Hindalco Industries Limited Samri Mines Division

Lease wise production data FY April-September 2023

Lease Name	Production (MT)	Mined out Area, ha.	Reclaimed area Ha.
Samri	204250	8.392	1.60
Kudag	18400	1.207	0.466
Tatijharia	190450	7.104	0.640
Total	413100	16.703	2.706

For Hindalco Industries Limited

Hindalco Industries Ltd **Head of Mines**