

Ref. HIL/TBM/MoEF&CC/1227/2024

To, The Director General of Forest (C), Ministry of Environment & Forest and Climate Change, Integrated Regional Office, Ground Floor, Aranya Bhawan, North Block, Sector-19, Nava Raipur, Atal Nagar, Chhattisgarh-492002

Sub: - Status of compliance of EC condition (Half yearly status of compliance report) in respect of Tatijharia Bauxite Mine (Lease area- 1218.762 Ha.) of M/s Hindalco Industries Limited of Chhattisgarh state for the period from October 2023 - March 2024.

Ref No: - Environment Clearance Letter No-J-11015/337/2007-IA, II (M) dated Aug. 9, 2007

Dear Sir,

We do herewith submit half yearly status of EC compliance report in respect of Tatijharia Bauxite Mine, Lease area - 1218.762 Ha, of M/s Hindalco Industries Limited P.O- Kusmi, Dist.- Balrampur-Ramanujganj, Chhattisgarh state, PIN-497224 for the period from October 2023 - March 2024. The lease details is as below: -

Lease area	Production Capacity	Lease Period
1218.762 Ha.	400000 Tonnes	25.06.1998 to 24.06.2048
1216.702 Ha.	400000 Tollies	(50years)

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

Thanking you,

Yours's faithfully

For, Hindalco Industries Limited

(Sanjay Pardhi)

Agent of Mines

: www.hindalco.com : hindalco@adityabirla.com E-mail

Corporate Identity No.: L27020MH1958PLC011238

Date: 22-05-2024

Tatijharia Bauxite Mines (1218.762Ha. Capacity-4.00LTPA),

M/s Hindalco Industries Ltd

Environment Clearance No

& date

: J-11015/337/2007 – IA.(IIM) dated 09.08.2007

Period of compliance Report : 1st October 2023 to 31st March 2024

A. Specific Conditions

Name of the Project

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

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

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

Reply to Condition 2: Noted.

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

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

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

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

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

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



Land preparation for reclamation

Condition-6: Over burden shall be stacked at earmarked dump site (s) only and shall not be kept active for long period. The maximum height of the dump shall not exceed 30m, each stage shall preferably be of 10m and over all slope of the dump shall not exceed 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. Old inactive OB dump has been stabilized by vegetation with suitable native species to prevent erosion and surface run off.





Old Inactive OB Dump with Plantation

Condition-7: Garland drains shall be constructed to arrest silt and sediment flows from soil and mineral dump. The water so collected shall be utilized for watering the mine area, roads, greens belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly. Garland drain (size, gradient and length) shall be constructed for both mine pit and for waste dump and sump capacity shall be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity shall also provide adequate retention period to allow proper settling of silt material. Sedimentation pits shall be constructed at the corners of the garlands drains and desilted at regular intervals.

Reply to Condition 7: Garland drains approx. 80m long along with retaining wall of appropriate size (1m height x 0.5m width x 210m length) have been made around the active mining pits coupled with arrester to arrest silt from run-off and drains are being maintained. The drains are regularly desilted before the monsoon. The Water so collected are being used for green belt development and in sprinkling of the haul road. Sump of adequate capacity is also developed.

At present there is no active OB dump. Entire waste generated during mining operation is being simultaneously backfilled in the mined out pit. An old inactive OB dump has been stabilized by

vegetation. Garland drain is provided to arrest silt and sediments flows from above mentioned OB dump.





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

Reply to Condition 8: We undertake that no natural water course is obstructed during mining operation.

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

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

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

Reply to Condition 10: Total 88.438ha. have been afforested with 214117 nos. of species till date. The plantation in reclaimed area has been carried out as per plan. The density is being maintained about 2500 plant per hectare with the species like Amla, mango, babul, pears, guava and Jamun. Moreover, plantation has been carried out over 1.874 ha. with 5846 saplings during this year. Social forestry is also being encouraged among the local villagers. Apart from that local food grain rice & Tau has been planted over the reclaimed area of 1.500 Ha. Year wise plantation is enclosed as *Annexure-C*.

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

Reply to Condition 11: Rain water harvesting structure (Ponds and Wells) of area at 0.79 Ha. (Betpani), 0.69 Ha. (Piprapat-1) and 5ft. x 10 ft.) has been constructed as conservation measures in

mined out area for the conservation/augmentation of ground water resources. Such measures also help in increasing the water credit of the Lease area.





RWH Pond & Recharge well

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

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



Water Sprinkling in the Haul Road

Condition-13: Regular monitoring of ground water level and quality shall be carried out by establishing a network of existing wells and constructing new piezometers during the mining operation. The monitoring shall be carried out four times in a year-pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the data thus collected may be sent regularly to MOEF, Central Ground Water Authority and Regional Director Central Ground Water Board.

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

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

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

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

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

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

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

- a) Company have been provided solar LED torch and florescent jacket to Staff of forest department, Ambikapur for patrolling and monitoring the movement of wildlife, encroachment, cutting, poaching, fire etc.
- b) Veterinary camp is being conducted for immunization of cattle with the help of block veterinary staff.
- c) Awareness programme related to wildlife conservation is being conducted.
- d) Eco-development activities like poultry, piggery, bee keeping etc. are being organized.
- e) Controlled blasting is being carried out so as reduce vibration and noise. Such operation is being carried out in day time only and its use is minimized.
- f) Plantation is regular activity.
- g) Fish farming with seeds of 5500 nos. has been done in water recharge pond.

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

Reply to Condition 17: Regular and periodic maintenance of HEMM is being carried out for control of vehicular emission in mines area. The bauxite ore are transported in trucks with tarpaulin cover up to EUP/Railway siding. Vehicle used for transportation are having valid permit. No overloading of ores for transportation is allowed to prevent spillage of material.



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

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





Job Specific Safety Training at VTC

Safety Awareness Programme at Site

Condition-19: A Final Mine Closure Plan, along with details of Corpus Fund, shall be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval.

Reply to Condition 19: We accept the condition. A progressive mine closure plan approved by IBM is in place. IBM is competent authority to approve the final mine closure plan. Based on the present resource estimate, and peak rated production capacity, the tentative balance life of mine is around 39 years. However, after completion of further detailed exploration programme and geological investigation, the balance life of mine is subject to change with respect to EC Capacity and cut –off grade of mineral at that particular time. Final Mine closure mine plan along with details of Corpus fund will be submitted within prescribed timelines in accordance with law to competent authority.

B. General Conditions

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

Reply to Condition 1: Noted.

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

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

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

Reply to Condition 3: The suggestions of local forest department are being implemented for conservation of flora and fauna in and around lease hold area. Important measure being implemented for conservation of flora and fauna are as follows.

- a) Company have been provided solar LED torch and florescent Jackets to Staff of forest department, Ambikapur for patrolling and monitoring the movement of wildlife ,encroachment, cutting ,poaching ,fire etc.
- b) Veterinary camp is being conducted for immunization of cattle with the help of block veterinary staff.
- c) Awareness programme related to wildlife conservation is being conducted.
- d) Eco-development activities like poultry, piggery, bee keeping etc. are being organized.

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

Reply to Condition 4: Ambient Air quality monitoring is being carried out as per guideline and is being followed. For this, We have already appointed NABL accredited laboratory M/s. Anacon Laboratories Pvt. Ltd. for conducting regular environmental monitoring. The Summery of Ambient air quality report (from October' 23 to March' 24) is enclosed as *Annexure-F*.

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

Reply to Condition 5: Data of ambient air quality (RPM, SPM, SO2, and NOx) are being submitted to CECB and are being submitted to other regulatory authorities as per guidelines. Data of ambient air quality (RPM, SPM, SO2 and NOx) from October' 23 to March' 24 is enclosed as *Annexure-F*.

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

Reply to Condition 6: Fugitive dust emission from generating sources is being controlled. The dust extractor, wet drilling, regular water spraying with 12 KL portable water tanker in the mine lease hold area is being carried out regularly. Rainwater collected into the mine pit is being utilized for dust suppression purpose. Black top road has been constructed up to pit head to reduce dust problem.





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

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

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

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

Reply to Condition 8: There is no waste water generated from the mining operation. For the waste water generated from workshop, oil and grease separation pits are provided and the treated water is being used for dust suppression in haul road.

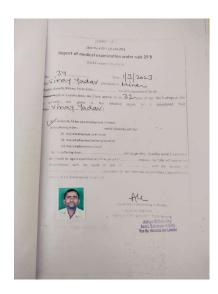
Condition-9: Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects.

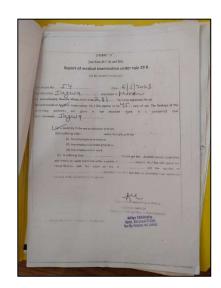
Reply to Condition 9: Company has provided adequate personal protective equipment to all workers and it is also ensured that they use the same. Regular awareness training are also being imparted to them for safety & health in our Group vocational training center— Samri is being continued as per guidelines.

All employees undergo Lung Function Tests during the Medical Examination. Periodical Medical Examination of employees and contractor workers are organized regularly to observe any contractions due to exposure to dust and other occupational hazards.

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

Reply to Condition 10: Periodical and Initial medical examination of all workers are being carried out as per provision of Mines Act.





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

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

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

Reply to Condition 12: The requisite document have been submitted to the regional office of the Ministry, Bhopal before commencement of development & operation in 1999. However, as the current regional office has changed to Raipur region, we are again resubmitting the information to the IRO Raipur vide letter no. HIL/SBM/MoEF&CC/1204/2024, dated 20-03-2024.

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

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

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

Reply to Condition 14: The requisite document have been submitted to the regional office of the Ministry, Bhopal before commencement of development & operation in 1999. However, as the current regional office has changed to Raipur region, we are again resubmitting the information to the IRO Raipur vide letter no. HIL/SBM/MoEF&CC/1204/2024, dated 20-03-2024.

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

Reply to Condition 15: All cooperation is being extended to regulatory authorities.

Condition-16: A copy of clearance letter will be marked to concerned Panchayat / local NGO, if any, from whom suggestion / representation has been received while processing the proposal.

Reply to Condition 16: We have forwarded the copy of clearance letter to Panchayat in our area. The copy of same has already been submitted to your good office.

Condition-17: State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and Collector's office/Tehsildar's office for 30 days.

Reply to Condition 17: The copy has been displayed by CECB in Surguja Collectorate.

Condition-18: The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of the Ministry of Environment and Forests at http://envfor.nic and a copy of the same shall be forwarded to the Regional Office of this Ministry located Bhopal.

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

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

Reply to Condition 19: Noted.

Condition-20: Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.

Reply to Condition 20: Noted.

Condition-21: The above conditions shall be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules.

Reply to Condition 21: Noted.

Hope the above compliance will be found in order.

Yours truly,

(For Hindalco Industries Limited)

Agent of Mines
Samri Mines Division
Hindalco Industries Ltd

(Sanjay Pardhi)

Agent of Mines

Encl.: As above

कार्यात्र प्रधान मुख्य वंज शंखक (वन्यप्राणी प्रवधक एवं जेव किविधता शरक्षण सह मुख्य वन्यप्राणी अभिरक्षक), हत्तीसगढ

अरण्य भवन, में डिकल कॉलेज राड, रायपुर

THE - pecful@saly.com

(Ph 0771-2552228, Fax (1771-2552227)

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रायपुर दिनांक ८ 🗸 /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 एक 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, भारत संरकार का पत्र क्रमांक J-11015/337/2007-IA.II(M) दिनांक
 युलाई 2007.
 - 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 (5LTPA) 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।

M

किया जाना. कुदाम के लिए ए मानार के कार माना माना किया 10.18 के माना के लिए का मानार के कार माना परतायित है। भारत सरकार पर्यावरण व वन मजालय के द्वारा उपरोक्त की का प्राप्त की माना वरण की रवीकृति कमश आवेश क्रमाक 1-11015/353/2007-IA.II/M दिनाक 77 ज्लाई 7007, 1 11015/354/2007-IA.II/M दिनाक 27 जुलाई 2007 एवं 1-11015/337/2007-IA.II/M दिनाक 9 अगरत 2007 द्वारा कुछ शतों 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 वन्य प्राणी संरक्षण योजना तैयार की गयी है।

- खनन क्षमता बढ़ाने से संबंधित प्रस्तावित तीनों ही परियोजनाओं के एक दूसरे से 4 कि.मी. की परिधि में स्थित 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 इन्डस्ट्रीज 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 अनेक्स्न-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 १ 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 संबंधित 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, रथानीय ग्रामीणों के लिये आजीविका सुजन, टीकाकरण, जनजागृति कार्यकम जैसी गृतिविधियों का

3.

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	

का प्रति का स्वति के विभाग में एकमुश्त जमा की गई शशि से बन्यप्राणी सरक्षण योजना कियान्वित करेगा।

7 अनुमांदित वन्यपाणा राउद्याण योजना की एक प्रति सलग्न प्रेषित है। कृपया वन्यप्राणी संरक्षण योजना में प्रावधानित राशि रू. 160.00 लाख एकमुश्त जमा कराने हेतु परियोजना प्रस्तावको को आदेशित करने का कष्ट करें।

संलग्नः-उपरोक्तानुसार।

(रामप्रकाश) वर्ग ११।3

प्रधान मुख्य वन संरक्षक (वन्यप्राणी)

छत्तीसगढ़, रायपुर

रायपुर दिनांक 07/10/2013

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।
- श्री एम., के. नायंक, 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) वर्ग प्रभा कत्तीसगढ़, रायपुर

9

SAMRI BAUXITE MINE

Annexue - B

Annexure-6 Details of Flora and Fauna समावेश करते हुये 04 वर्षों के लिए कीए लिए करण करणाएं अवधानित की गयी है। जिसका क्रियान्वयन वन विभाग के द्वारा किया जायेगा। प्रस्तान मुखा भी किया का विवरण निस्तानुसार है -

Sr.	Works to be done	Ce		11 γυ _σ 11 5 (As. In lak	ha)	Remarks	
10-		1 Year	Year	Year	4	Total	142	
1	Plantation including soil and moisture Conservation works as per norms of forest department surrounding the lease hold	5.00	5:00	4:00	5.00	20.00		
2	Silvicultural Operation on degraded forest Land and cut back in rooted waste	2.00	2.00	2.00	2.00	8.00	f .	
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	n n	
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	At	
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>	2
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		1000
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)	100
			35.00	35.00	35.00	160.00	(DIVIC 3)	1

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	Mimosacaae
Mangifera indica	Aam	Anacardiaceae
Citrus lemon	Nimbu	Rutaceae
Emblica officinalis	Amla	Euphorbiaceae
Ficus hispida	Jungli anjir	Moraceae
Spondias cythera	Kathjamun	Myrtaceae
Terminalia catapa	Badam	Combretaceae
Apluda mutica	Grass	Poaceae
Chloris dolichosta	Grass	Poaceae
Dichanthium annulatum	Grass	Poaceae
Inpurta cylendrica	Grass	Poaceae
Themeda-quadrivalvis	Grass	Poaceae
Aristida adscensionsis	Grass	Poaceae
Eragrostis biferia	Grass	Poaceae
Fragrostis tenella	Grass	Poaceae
Setarla glauca	Grass	Cyperaceae
Thysanolaena maxima	Grass	Graminae
Parthenium hysterophorus	Congress grass	Compositae
Carsia tota	4.20	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	iltural Crops		
1	Hordium vulgare	Poaceae	Hemicryptophyte
2	Sorghum vulgare	Poaceae	Hemicryptophyte
3	Triticum vulgare	Poaceae	Hemicryptophyte
4	Zea mays	Poaceae	Hemicryptophyte
15	Oryza sativa	Poaceae	Hemicryptophyte
(i	Pennisetum typhoideum	Poaceae	Hemicryptophyte
II. Comr	nercial Crops (including Veget	tables)	
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
1.2	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
17	Daucus carota	Umbelliferae	Geophyte
18	Lycopersicum esculentus	Solanaceae	Therophyte
1.)	Mangifera indica	Anacardiaceae	Phanerophyte
20	Memordia charantia	Cucurbitaceae	Therophyte
21	Pisum sativum	Fabaceae	Therophyte
2.2	Psidium guava	Myrtaceae	Phanerophyte
23	Solanum tuberosum	Solanaceae	Geophyte
24	Litchi chinensis	Sapindaceae	Phanerophyte
III. Plani	tations		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. 1		al Name			
1	31	Azadirachta indic	3	Family		116
-	32	Bauhinia variegat	ϵ	Meliaceae		Life Form
	33	Bauhinia purpuria		Caesalpinaceae		Phanerophyte Phanerophyte
	34	Bambusa arundar	laceae	Caesalpinaceae		Phanerophyte
	35	Dutea monospern	18	Poaceae		Phanerophyte
	36	Butea frondosa		Caesalpinaceae		Phanerophyte
	37	Eucalyptus sp		Caesalpinaceae Myrtaceae		Phanerophyte
	38	Delonix regia		Caesalpinaceae		Phanerophyte
I	V. Na	Leucena leucophio	e	Caesalpinaceae		Phanerophyte
1	39	Abrus precatorius	est Type	т - состринаседе		Phanerophyte
-	40	Abutilon indicum		Fabaceae		
_	41	Acacia Arabica		Malvaceae	- 54	Therophyte
-	42	Acacia auriculiformi		Mimosaceae		Phanerophyte
-	43	Acacia catechu	5	Mimosaceae		Phanerophyte
-	44	Acacia intinsia		Mimosaceae		Phanerophyte
-	45	Acacia fernacea		Mimosaceae		Phanerophyte
-	46	Acacia leucophioe		Mimosaceae		Phaneophyte
	47	Acalypha lanceolata		Mimosaceae		hanerophyte
	48	Acanthospermum his	Spidum	Euphorbiaceae	F	hanerophyte
	49	- Cody all thes aspers		Compositae	7	herophyte
-	50	Agathoda vasica		Amaranthaceae	1	herophyte
	51	Adina cordifolia		Acanthaceae	- P	herophyte
	3	Aegle marmelos		Rubiaceae	DI	herophyte
	4	Aerva lanata		Rutaceae	PI	ianerophyte ianerophyte
5	-	Ageratum conyzoides	+	Compositae	PF	anerophyte
5		Allanthes excela		Compositae	Th	erophyte
5	-	Alangium salivus	Δ	Simaroubaceae Ilangiceae	Ph	anerophyte
58		Albizia odoratissima	6	aecala:	Ph	anerophyte
59		Albizia procera	10	aesalpinaceae aesalpinaceae	Ph	anerophyte
60		Alstonia scholaris	A	pocyanaceae	Pha	enerophyte
61		Alternanthera sessilis	A	maranthaceae	Pha	enerophyte
62		Alysicarpus hamosus Anogeissus latifolia	Fa	ibaceae	The	rentivie
63		Anogeissus serica	Co	ombretaceae	The	rophyte
64		Argemone mexicana	Co	mbretaceae	Pha	nerophyte
65		Azadirachta indica	Pa	pevaraceae	Pha	nerophyte
66		Barleria prionoites	Me	liaceae	Phai	nerophyte
67	10	Bidens biternata	Aca	enthaceae	Phar	rerophyte
68		Blepharis asperima	Cor	mpositae	Iner	ophyte
69	1	Blepharis madaraspaten	Aca	inthaceae	Ther	ophyte
70	1.	olumea lacera	Aca	inthaceae	Phan	erophyte
71	E	oerheavia chinensis	Con	npositae	Inen	ophyte
72		overneavia diffues	Nyc	ataginaceae	There	phyte
73	16	ombax ceiba	Nyc	taginaceae	There	phyte
74	B	orreria hispida	Born	bacaceae	There	phyte
6	B	orreria stricta	Rubi	aceae	Phane	erophyte
7	Be	oswellia serrata	Rubi	aceae	Thero	pnyte
8	BI	assica camproctrio	Burs	eraceae	Thero	priyte
9	DI	idelia retusa	Cruci	ferae	There	rophyte
)	Br	idelia superba	Euph	orbiaceae	Therop	onlyte
	Ca	esalpina pulcherima	Con	orbiaceae	Phaner	ophyte ophyte
2	_ Cd	lotropis procera	Laesa	alpinaceae	Phaner	ophyte
	Cal	nthium diddynum	ASCIIP	ladaceae	Phaner	Ophyte
	Car	pparis aphylla	Rubia	oridage	Phanen	Onbyte
	Car	paris deciduas	Сарра	ridaceae	Therop	ovte
	Car	issa carandus	Appor	ridaceae anaceae	Phanero	onhyte
	Car	issa spinarium	Apocy	anaceae	Phanero	phyte
	Cace	earia graveolens sia absus	Samyo	liaceae	Phanero	phyte
	Case	ala absus Gla absus	Caesali	pinaceae	Phanero	phyte
	Cass	ila auriculata	Caesali	Dinaceae	Phanero	phyte
	Cass	ia occidentalis	Caesalr	Dinaceae	Theroph	vte
	Cass	ia tora	Caesain	Dinaceae	Therophy	vte
	Cestr	rum diurnum	Caesaln	inaceae	Therophy	te
	Cestr	um noctrunum	Rubiace	ae	Phaneron	hyte
		TOWNS CONTROL OF THE PARTY OF T	Rubiace		Theophyt	

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
1.32	Gardenia lucida	Rubiaceae	Phanerophyte
133	Garuga pinnata	Burseraceae	Phanerophyte
1,34	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	Indigorera limnacea	Caesalpinaceae	Therophyte
155	Indigofera tinctoria	Caesalpinaceae	Therophyte
156	Ipomea aquatica	Convolvulaceae	Hydrophyte
157	Ipomea coccinea	Convolvulaceae	Therophyte
158	Ipomea tuba	Convolvulaceae	Hemicryptophyte
159	Ixora arborea	Rubiaceae	Phanerophyte
	Ixora parviflora	Rubiaceae	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 camara	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	Therophyte
183	Lycopersicum esculentus	Solanaceae	Therophyte
184	Madhuca latifolia	Sapotaceae	Phanerophyte
185	Mallotus philippinus	Euphorbiaceae	Phanerophyte
186	Malvastrum coramandalicum	Malvaceae	Therophyte
187	Mangifera indica	Anacardiaceae	Phanerophyte
188	Marselia quadrifolia	Marseliaceae	Phanerophyte
189	Melia azadirachta	Meliaceae	Phanerophyte
190	Memordica diocea	Cucurbitaceae	Therophyte
191	Merremia emerginata	Convolvulaceae	Therophyte
192	Michaelia champaca	Annonaceae	Phanerophyte
193	Millingtonia hartensis	Bignoniaceae	Phanerophyte ::
194	Mimosa hamata	Mimosaceae	Therophyte
195	Mitragyna parviflora	Rubiaceae	Phanerophyte
196	Mollugo cerviana	Aizoaceae	Therophyte
197	Mollugo hirta	Aizoaceae	Therophyte
198	Moringa oleifera	Moringaceae	Phanerophyte
199	Morus alba	Moraceae	Phanerophyte
200	Mucuna prurita	Papillionaceae	Hemicryptophyte
201	Murraya exotica	Rutaceae	Phanerophyte
202	Murraya koenigii	Rutaceae	Phanerophyte Therophyte
203	Musa paradisica	Musaceae	Hydrophyte
204	Nymphia sp	Magnoliaceae Labiatae	Hydrophyte Therophyte
205	Ocimum americanum		
206	Ocimum-basillum	Labiatae Labiatae	Therophyte Therophyte
207	Ocimum canum		
208	Ocimum sanctum	Labiatae Convolvulaceae	Therophyte Therophyte
209	Oldenlandia umbellate	Rubiaceae	Therophyte
210	Oldenlandiua corymbosa	Papillionaceae	Phanerophyte
211	Oogeinia oojensis	Opuntiaceae	Therophyte
212	Opuntia dillinii	Cacataceae	Therophyteq
213	Opuntia elator Oxalis corniculata	Oxalidaceae	Therophyte
214			
215	Panicum milliria	Poaceae	Hemicryptophyte
216	Panicum notatum	Poaceae	Hemicryptophyte Hemicryptophyte
217	Papaver somniferum	Papaveraceae	
218	Parkinsonia aculata	Mimosaceae	Phanerophyte
219	Parthenium hysterophorus	Compositae	Therophyte
220	Paspalum strobilanthus	Passifloraceae	Hemicryptophyte
221	Passiflora foetida	Passifloraceae	Phanerophyte
222	Pavonia zeylanica	Malvaceae	Phanerophyte
223	Peltophorum ferrusinum	Caesalpinaceae	Phanerophyte
224	Phoenix aculis Phylianthes asperulatus	Palmae Euphorbiaceae	Phanerophyte Phanerophyte
225			

ir. No.	Technical Name	Family	Life Form
227	Phyllanthes nirurii	Euphorbiaceae	Therophyte
228	Phyllanthes reticulates	Euphorbiaceae	Therophyte
229	Physalis minima	Solanaceae	Therophyte
230	Pithocolobium dulce	Mimosaceae	Phanerophyte
231	Polyalthia longifolia	Annonaceae	Phanerophyte
232	Polygala ererptera	Polygalaceae	Therophyte
233	Pongamia pinnata	Fabaceae	Phanerophyte
234	Portulaca oleracea	Portulaccaceae	Therophyte
235	Psidium guava	Myrtaceae	Phanerophyte
236	Punica granulatum	Puniaceae	Therophyte
237	Randia dumatorum	Rubiaceae	Phanerophyte
238	Rosa indica	Rosaceae	Therophyte
239	Rosa machata	Rosaceae	Therophyte
240	Saccharum munja	Poaceae	Hemicryptophyte
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 .	Hemicryptophyte
248	Shorea robusta	Dipterocarpaceae	Phanerophyte
249	Sida orientalis	Malvaceae '	Phanerophyte
250	Sida vernanifolia	Marvaccac	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
267 268	Triumferta pilosa	Tiliaceae	71.
Company of the Compan	Vernonia cinera	Compositae	Therophyte
269	Vicoa indica	Compositae	Phanerophyte
270 271	Vitex Negundo	Verbinaceae	Phanerophyte
Corporate Company	Vitex negungo	Verbinaceae	Therophyte
272	Vitis vermifera	Vitaceae	Therophyte
273	Vivevera zizanoides	Poaceae	Therophyte
274	Wrightia tomentosa	Apocyanaceae	Phanerophyte
275	Xanthium strumariumk	Compositae	Therophyte
276 277	Yucca gloriosa Zizyphus jujube	Agavaceae	Therophyte -
	the control of the co	Rhamnaceae	Phanerophyte
278	Zizyphus mauritiana	Rhamanaceae	Phanrophyte
Grassla		Donoses	I the second of the second
279	Apluda mutica	Poaceae	Hemicryptophyte
280	Chloris dolichosta	Poaceae	Hemicryptophyte
281	Cyanodactylon sp	Poaceae	Geophyte
282	Dichanthium annulatum	Poaceae	Hemicryptophyte
283	Inpurta cylendrica	Poaceae	Hemicryptophyte
	Sachharum spontanseum	Poaceae	Hemicryptophyte
	Themeda quadrivalvis	Poaceae	Hemicryprophyte
285			The state of the s
285 286	Aristida adscensionsis	Poaceae	Hemicryptophyte
285 286 287	Aristida adscensionsis Cenchrus ciliaris	Poaceae	Therophyte
285 286 287 288	Aristida adscensionsis Cenchrus ciliaris Cenchrus setifgera	Poaceae Poaceae	Therophyte Therophyte
284 285 286 287 288 289 290	Aristida adscensionsis Cenchrus ciliaris	Poaceae	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	Homicount
296	Erzorostia b	Poaceae	Hemicryptophyte
297	Eragrostis tenella	Poaceae	Therophyte
298	Ischaemum rugosum	Poaceae	Therophyte
	Setaria glauca	Cyperaceae	Hemicryptophyte
299	Eulaliopsis binata	Graminae	Hernicryptophyte
300	Thysanolaena maxima		Hemicryptophyte
	Endangered plants	Graminae	Liones I
		No endangered plant study period and also Survey of India (Red Plants)	species observed during from records of Botanica data of Books of India

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

Technical Name	TATION STATUS FROM MINE	ZOILL)
	English Name/ Local Name	Wild Life Protection Act
Aves	a sear Name	(1972) Status
Phlacrocorax niger	Little cormorant	
Nycticorax nycticorax	Night heron	Sch-IV
Ardeola grayii grayii		Sch-I∀
Bubulcus ibis coromandus	Paddy bird	Sch-IV
Eudynamys scolopacea	Lattie egret	Sch-IV
Meops philippinus philippinus	Indian koel	Sch-IV
Dinopium benghalense tehminae	Bluetailed bee-eater	Sch-IV
grioletise teminiae	Malabar golden backed	Sch-IV
Acridotheres tristis tristis	Woodpecker	301-17
Nectarinia minima	Common myna	Sch-IV
Passer domesticus indicus	Small sunbird .	Sch-IV
Butterflies	Indian house sparrow	Sch-IV
Hypolimnas bolina Lin.	The second secon	SCII-IV
Euploea core Cramer	Great segfly	
Neptis hylas Moore	- Common crow	
Eurema hecabe Lin.	Common sailor	*
Parantica aglea Stoll.	Common grass yellow	
Mammals	Glassy tiger	
		-
Funambulus palmarum Sus sucrofa	Squirrel	
	Wild pig	Sch-IV
Herpestes edwardii	Common mongoose	Sch-III
/ulpus benghalensis	Wild fox	Sch-IV
lystrix indica	Porcupine	Sch-II
	1 . s. copile	Sch-IV

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

Technical Name	English Name/Local Name	
Aves	- Cocal Name	Wild Life Protection Act
		(1972)
Phlacrocorax niger	Little cormorant	
Ardea purpurea manilensis	Eastern purple heron	Sch-IV
Nycticorax nycticorax	Night heron	Sch-IV
Ardeola grayii grayii	Paddy bird	Sch-IV
Dupetor flavicollis		Sch-IV
Ardea alba modesta	Black bittern	Sch-IV
Bubulcus ibis coromandus	Large egret	Sch-IV
Milvus migrans govinda	Cattle egret	
Haliastur indus indus	Common pariah kite	Sch-IV
Vanally a ladi	Brahminy kite	Sch-IV
Vanellus indicus indicus	Redwattled lapwing	Sch-IV
Tringa hypoleucos	Common sandpiper	Sch-IV
Gelochelidon nilotica nilotica	Gullbilled tern	Sch-IV
udynamys scolopacea	Indian koel	Sch-IV
talcyon smyrnensis fusca		Sch-IV
leops philippinus philippinus	Indian white breasted Kingfischer Bluetailed bee-eater	Sch-IV
1	1 proceeded bee-eater	Sch-IV

Technical Name	English Name/Local Name	Wild Life Protection Act (1972)
Coracias benghalensis indica	Southern Indian Roller	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		36.17
Passer domesticus indicus	Indian house sparrow	Sch-IV
Copsychus saularis ceyonensis	Southern magnie-robin	Sch-IV
Orthotomus sutorius	Tailor bird guzurata	Sch-IV
Pavocristatus	Peacock	Part-III of Sch-I
Amphibians		ruicin or sen-i
Rana tigriana	Common frog	Sch-IV
Buto melanosticus	Toad	Sch-IV
Reptiles	1000	SCII-IV
Calotes versicolor	Lizard	C-b IV
Calotes versicolor	Common garden lizard	Sch-IV
Chamaleon zeylanicus	Indian chamaeleon	Sch-IV
Lycodon spp.	Wolf snake	Sch-II
Boiga spp.		Sch-III
	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		
Pachliopta hector Lin.	Crimson rose	-
Papilio demoleus Lin.	Lime butterfly	
Graphium agamemnon Lin.	Tailed jay	
Junoria almana Lin.	Peacock pansy	-
Hypolimnas bolina Lin.	Great egofiv	
Euploea core Cramer	Common crow	-
Neptis hylas Moore	Common sailor	-
Eurema hecabe Lin.	Common grass yellow	-
Catopsilia sp.	Emigrant	-
Mammals	.1	
Rattus sp.	Rat ·	Sch-IV
Lepus nigricollis	Hare	Sch-IV
Canis auries	Jackal	Sch-III
Presbytis entellus	Langur	Sch-II
Presbytis phayrei	Monkey	Sch-I
Funambulus spp.	Squirrel	
Funambulus palmarum	Squirrel	Sch-IV
Sus sucrofa —	Wild pig	Sch-IV
		Sch-III
Rattus norvegicus	Field mouse	Sch-V
Rattus rattus	House rat	Sch-V
Rhinolopus spp.	Bat	Sch-V -
lipposiderus 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
felsurus ursinus	Bear	Sch-III
MOCH 100 Charles 144 (15)	Dear	
ystrix indica	Porcupine	
		Sch-IV
xis axis .	Porcupine	Sch-IV Sch-III
lystrix indica xis axis ↓ Tanis lupaspallipes dellivora capensis	Porcupine Spotted deer Indian wolf	Sch-IV Sch-III Part-I of Sch-I
xis axis Tanis lupaspallipes dellivora capensis	Porcupine Spotted deer Indian wolf Indian Ratel	Sch-IV Sch-III Part-I of Sch-I Part-I of Sch-I
xis axis anis lupaspallipes fellivora capensis lephas maximas	Porcupine Spotted deer Indian wolf Indian Ratel Indian Elephant	Sch-IV Sch-III Part-I of Sch-I Part-I of Sch-I Part-I of Sch-I
xis axis anis lupaspallipes fellivora capensis flephas maximas elis chaus	Porcupine Spotted deer Indian wolf Indian Ratel Indian Elephant Jungle cat	Sch-IV Sch-III Part-I of Sch-I Part-I of Sch-I Part-I of Sch-I Part-II of Sch-II
xis axis anis lupaspallipes fellivora capensis lephas maximas	Porcupine Spotted deer Indian wolf Indian Ratel Indian Elephant	Sch-IV Sch-III Part-I of Sch-I Part-I of Sch-I Part-I of Sch-I

Annexure-C

HINDALCO INDUSTRIES LIMITED

SAMRI MINES DIVISION

Tatijharia Bauxite Mines

Year wise /lease wise Afforestation details

Year	Tatijhar	ia lease	
	No. of Saplings	Area in Ha.	
1998-2017	78925	32.060	
2017-18	8868 19967 32715 28739		
2018-19 2019-20 2020-21			
		18.970	
		12.819	
2021-22	21947	5.557	
2022-23	17110	5.628	
2023-24	5846	1.874	
Total	214117	88.438	

(For Hindalco Industries Limited)

Samn Mines Division Hindalco Industries Ltd

Annexure-L



REGIONAL OFFICE

CHHATTISGARH ENVIRONMENT CONSERVATION BOARD

Kanya Parisar Road, Near Govt. Aayurvedic Hospital, Namnakala Gangapur, Ambikapur (C.G.) e-mail:-rocecbamk@gmail.com

No. **1574**/RO/TS/CECB/ 2022

Ambikapur, Dated: 29/11/2022

To,

M/s Hindalco Industries Limited, (Tatijharia Bauxite Mine) Village- Tatijharia & Betapani, Tehsil - Samri,

District - Balrampur-Ramanujganj (C.G.)

Subject: Renewal of consent of the board under Section 25/26 of the Water (Prevention &

Control of Pollution) Act, 1974.

Ref.: Your online application no. 10523916 dated 27/07/2022 and subsequent

correspondence ending dated 25/11/2022.

With reference to your above application, consents under section 25 of the Water (Prevention and Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention and Control of Pollution) Act, 1981 are hereby renewed for period of Five years i.e. from 01/12/2022 to 30/11/2027, subject to the fulfillment of the terms and conditions incorporated in the water consent letter no. 6884/TS/CECB/2007 Raipur, dated: 24/12/2007 and air consent letter no. 6886/TS/CECB/2007 Raipur, dated: 24/12/2007 Raipur and subsequent renewal(s)/amendment(s) issued by the Board and additional conditions mentioned below.

This renewal of consent is valid for product & production capacity of: -

NAME	PRODUCTION CAPACITY
Mining of Bauxite Ore	4.0 Lakhs T./Annum
	(Four Lakhs Tonnes Per Annum)

Additional Conditions

A. Water (Prevention and Control of Pollution) Act, 1974

- 1. This renewal of consent is being issued under the "Scheme of Auto-Renewal of Consent" of the Board issued vide office order no. 5938 dated 29/01/2018 as per self certificate submitted by authorized signatory Shri Vijay Kumar Singh Chauhan, General Manager of M/s Hindalco Industries Limited (Tatijharia Bauxite Mine), Village- Tatijharia & Betpani, Teh.- Samri, Distt.- Balrampur-Ramanujganj (C.G.)..
- 2. Chhattisgarh Environment Conservation Board reserves the rights to revoke the Consent at any time for any violation/non-compliance.
- 3. In case, if the capital investment is increased by such amount that the total investment exceeds the range for which renewal fees has been paid, the industry shall have to pay the difference amount of renewal fees for the corresponding block years.
- 4. In case, the prescribed fee payable is amended in future, the industry shall be liable to pay the difference amount for corresponding block years.
- 5. Industry shall operate and maintain the effluent treatment system effectively and regularly. Industry shall ensure treated effluent quality within the standards prescribed by Board published in Gazette Notification dated 25.03.1988. Treated effluent shall be used for dust suppression, domestic use, irrigation, other useful purposes etc. Industry shall not discharge any treated/untreated effluent into the river or any other surface water bodies. No effluent shall be discharged outside of the mine premises in any circumstances; hence zero discharge condition shall be maintained all the time; failing which, this renewal of consent may be cancelled.
- 6. Industry shall ensure safe and scientific arrangement for disposal of all solid wastes. Excavated area shall be reclaimed scientifically.

- 7. All internal roads shall be maintained properly. Industry shall maintain good house keeping within mine lease area. Industry shall ensure the transportation of ore in duly covered vehicles.
- 8. Industry shall use fly ash brick, fly ash blocks or fly ash based products in their construction/repairing activities.
- 9. Industry shall submit monitoring report of effluent regularly.
- 10. Wide green belt of broad leaf local species shall be developed along the mine lease area. As for as possible maximum area of open spaces shall be utilized for plantation purposes.
- 11. Provision of water harvesting system should be provided in the industry premises.
- 12. Industry shall submit Environment statement to the Board as per provision of Environmental (Protection) Amendment Rule, 1993 for the previous year ending 31st March on or before 30th September every year.
- 13. Chhattisgarh Environment Conservation Board reserves the rights to revoke the Consent at any time for any violation/non-compliance.

B. Air (Prevention and Control of Pollution) Act, 1981

- 1. This renewal of consent is being issued under the "Scheme of Auto-Renewal of Consent" of the Board issued vide office order no. 5938 dated 29/01/2018 as per self certificate submitted by authorized signatory Shri Vijay Kumar Singh Chauhan, General Manager of M/s Hindalco Industries Limited (Tatijharia Bauxite Mine), Village- Tatijharia & Betpani, Teh.- Samri, Distt.- Balrampur-Ramanujganj (C.G.).
- 2. Chhattisgarh Environment Conservation Board reserves the rights to revoke the Consent at any time for any violation/non-compliance.
- 3. In case, if the capital investment is increased by such amount that the total investment exceeds the range for which renewal fees has been paid, the industry shall have to pay the difference amount of renewal fees for the corresponding block years.
- 4. In case, the prescribed fee payable is amended in future, the industry shall be liable to pay the difference amount for corresponding block years.
- 5. The Industry shall operate & maintain the air pollution control system effectively & regularly. Effective steps shall be taken to control fugitive dust emission. Fixed type automatic water sprinkling system shall be installed at haul roads/other roads, ore stock yard etc. Dust suppression system (water sprinkling arrangement) shall be made more effective to ensure ambient air quality within prescribed limit in and around the mine area all the time.
- 6. Regular monitoring for the measurement of air pollutants level in ambient shall be carried out. Industry shall submit air quality monitoring reports to the Board regularly.
- 7. Industry shall ensure safe and scientific arrangement for disposal of all solid wastes. Excavated area shall be reclaimed scientifically.
- 8. All internal roads shall be maintained properly. Industry shall maintain good house keeping within mine lease area. Industry shall ensure the transportation of ore in duly covered vehicles.
- 9. Industry shall use fly ash brick, fly ash blocks or fly ash based products in their construction/repairing activities.
- 10. Wide green belt of broad leaf local species shall be developed along the mine lease area. As for as possible maximum area of open spaces shall be utilized for plantation purposes.
- 11. Industry shall submit Environment statement to the Board as per provision of Environmental (Protection) Amendment Rule, 1993 for the previous Signature Motivaerified before 30th September every year.
- 12. Chhattisgarh Environment Conservation Board reserves the right of reverthe Consent at any time for any violation/non-compliance.

 Digitally Signed by :P K RABDE I

Please acknowledge the receipt of this letter.

For a Date: 2023 16:02:08 IST CHHATTISGARH ENVIRONMENT CONSE

Regional Officer
Chhattisgarh Environment Conservation Board,
Ambikapur

Annexure-D

Hindalco Industrial Limited Samri Mines Division

Ground Water Level Data April-September 2023

Tatijharia Mine Lease Piezometer Reading				
Date	GW Level in mtr			
April-23	28.8			
May-23	30.4			
June-23	27.7			
July-23	27.1			
August-23	26.6			
September-23 28.3				
Half Yearly Average	28.15			

For Hindaleo Industries Limited



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Test Report

Test Report No.: ALPL/31052023/3-7

Inc. of T	72CTORX 42E3 CF	0.2 425 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Page 1 of 5
Issued To: M/s. Hindalco Industries Ltd., Tatijharia, Post Jamira, Tehsil Samri(Kusmi), District: Balrampur (C.G)	Sample Inward No. Inward Date Reference Reference Date	ALPL/22052023/ENV-126/3-GW-1 22/05/2023 13562310015 20/05/2023	Analysis Start 23/05/2023 Analysis End 29/05/2023 Report Issue Date 31/05/2023 Sample Category Ground Water
Sample Name Ground Water	1960 - 1970 - 1		Quantity Received 5 L & 250ml
Sampling Location Piprapat/Near Mining Area	Sample Sour Borewell Wat	1 0	

			TEST RESULTS			
S.N.	Test Parameter	Measurement Unit	Test Method	Requireme IS 10500 (Drinking Water Including Ame	Test Result	
		die See		Acceptable Limit	Permissible Limit #	
1	Biological Testing 1. Water		200 20 25			
1	Coliform	Per 100 ml	IS 15185 : 2016	Absent	Absent	Absent
2	Escherichia coli	Per 100 ml	IS 15185 : 2016	Absent	Absent	Absent
11	Chemical Testing 1. Water				1 Tosen	Ausent
3	Alkalinity (as CaCO ₃)	mg/l	IS 3025 (Part 23): 1986	200	600	151.46
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	27.94
9	Calcium (as Ca)	mg/l	1S 3025 (Part 40): 1991	75	200	53.81
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	0.26
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	-7	IS 3025 (Part 5): 2018	Agreeable	Agreeable	Agreeable
16	pH		IS 3025 (Part 11): 2022	6.5 to 8.5	No relaxation	6.73 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	17.32
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	Agrecable	Agreeable	Agreeable
21	Total dissolved solids	mg/l	IS 3025 (Part 16): 2023	500	2000	471
22	Turbidity	NTU	IS 3025 (Part 10): 1984	1	5	0.3
23	Total hardness (as CaCO ₃)	mg/l	IS 3025 (Part 21): 2009	200	600	183.56
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

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/31052023/3-7

Page 2 of 5

Issued To:	Sample Inward No.	ALPL/220520	23/ENV-126/3-GW-1	Analysis Start	23/05/2023	
M/s. Hindalco Industries Ltd.,	Inward Date			Analysis End	29/05/2023	
Tatijharia, Post Jamira,	Reference	1356231001	5	Report Issue Date	31/05/2023	
Tehsil Samri(Kusmi), District: Balrampur (C.G)	Reference Date	20/05/2023		Sample Category	Ground Water	
Sample Name Ground Water	Sample Name Sample Collect		-5.20 d	Quantity 1	Received 250ml	
Sampling Location Piprapat/Near Mining Area	Sample Sour Borewell Wat		Sampling Date 18/05/2023	DATE SHOULD BE S		

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			23%		
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	0.28
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 - 0.001)
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 Re	port No. : A	LPL/31052	2023/3-7
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Issued To: M/s. Hindalco Industries Ltd., Tatijharia, Post Jamira, Tehsil Samri(Kusmi), District: Balrampur (C.G)	Sample Inward No. Inward Date Reference Reference Date	22/05/2023 Analysis E 13562310015 Report Issu		Analysis Start Analysis End Report Issue Date Sample Category	Page 3 of 5 23/05/2023 29/05/2023 31/05/2023 Ground Water
Sample Name Ground Water	Sample Collected By Anacon Representative Mr. Kailash Chahande		Quantity 1		
Sampling Location Piprapat/Near Mining Area	Sample Sour Borewell Wat	ce	Sampling Date 18/05/2023	5 L & 250ml Sampling Time 2.20 pm	

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	IS 105 (Drinking Wat	ment as per 600 : 2012 ter Specifications) nendment No. 4	Test Result		
**		The second		Acceptable Limit	Permissible Limit #			
H	Chemical Testing 2. Residues In Water			1	471			
41	Polychlorinated biphenyls			Terran				
	2,2',5-trichlorobiphenyl	μg/l	ANtr/7.2/RES/04: 2018		T	DDL (DL 0.0)		
	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	1	i e	BDL (DL - 0.0		
	2,2',4,5,5'-pentachlorobiphenyl	µg/1	ANtr/7.2/RES/04: 2018	0.5 No relaxation	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 BDL (DL - 0.03							
	Naphthalene	μg/l	ANtr/7.2/RES/03: 2018			DDI /DI 0.0		
	Acenaphthylene	μg/l	ANtr/7.2/RES/03: 2018	1		BDL (DL - 0.0		
ļ	Acenaphthene	µg/l	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.		
	Phenanthrene	µg/l	ANtr/7.2/RES/03: 2018	1		BDL (DL - 0.0)		
- 1	Fluoranthene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.0)		
	Pyrene	μg/l	ANtr/7.2/RES/03: 2018	ar rae		BDL (DL - 0.0)		
	Benzo(a)anthracene	ид/1	ANtr/7.2/RES/03: 2018	0.1	No relaxation	BDL (DL - 0.0)		
[Chrysene	μg/1	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		
	Benzo(b)fluoranthene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.03		
	Benzo(k)fluoranthene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.03		
	Indeno(123,cd)pyrene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.03		
	Dibenzo(a,h)anthracene				BDL (DL - 0.03			
	Benzo(ghi)perylene	μg/l	ANtr/7.2/RES/03: 2018		1	BDL (DL - 0.03 BDL (DL - 0.03		

Please refer last Page for Note and Remarks.

Verified By

Deputy Technical Manager

Authorized Signatory

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



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Test Report

Test Report No.: ALPL/31052023/3-7

Issued To:	Sample Inward No.	ALPL/22052023/ENV-1	26/3-CW-1	Analysis Start	Page 4 of 5	
M/s. Hindalco Industries Ltd.,	Inward Date			Analysis End	23/05/2023 29/05/2023	
Tatijharia, Post Jamira, Tehsil Samri(Kusmi),	Reference	13562310015		Report Issue Date	31/05/2023	
District: Balrampur (C.G)	Reference Date	20/05/2023		Sample Category	Ground Water	
Sample Name Ground Water	Sample Collected By Anacon Representative Mr. Kailash Chah		nhande	Quantity Received 5 L & 250ml		
Sampling Location Piprapat/Near Mining Area	Sample Sour Borewell Wat		ing Date 5/2023	W/01 2010	ng Time	

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Require IS 105 (Drinking Wa Including A	Test Result	
43	Trihalomethanes			Acceptable Limit	Permissible Limit #	
i	Bromoform	mg/l			F	_
ii	Dibromochloromethane		Avenue in the second	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	The state of the second	0.06	No relaxation	BDL (DL -0.05)
44		mg/l		0.2	No relaxation	BDL (DL -0.05)
i	Pesticide Residues Organochlo					· · · · · · · · · · · · · · · · · · ·
	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	i	No relaxation	BDL (DL - 0.03)
xi	p,p'-DDD	μg/l	ANtr/7.2/RES/01: 2018	i	No relaxation	
xii	o,p'-DDD	μg/l	ANtr/7.2/RES/01: 2018	i	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			BDL (DL - 0.03)
XV	Endosulphan			1	No relaxation	BDL (DL - 0.03)
	Alpha-Endosulphan			T		
	Beta-Endosulphan	μg/l	ANtr/7.2/RES/01: 2018	0.4		Mariana Names Assault
	Endosulphan sulphate	181	743477.27KE3/01. 2018	0.4	No relaxation	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



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Test Report

Test Rep	ort No.:	ALPL/31	052023/3-7
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Issued To:	Sample Inward No.	AT DI /220520	22/58/1/ 12/12 611/4	1	Page 5 of 5	
M/s. Hindalco Industries Ltd.,	Inward Date	ALPL/22052023/ENV-126/3-GW-1 22/05/2023		Analysis Start	23/05/2023	
Tatijharia, Post Jamira,				Analysis End	29/05/2023	
Tehsil Samri(Kusmi),	Reference	1356231001	5	Report Issue Date	31/05/2023	
District: 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 Piprapat/Near Mining Area	Sample Sour Borewell Wat	rce Sampling Date Sampling Date		Samplin	pling Time	
			10/00/2020	2.20	pm	

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Require IS 105 (Drinking Wat Including An	Test Result				
44	D-di-ti D ti O			Acceptable Limit	Permissible Limit #				
	Pesticide Residues Organophosphorus								
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	1	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/1	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		- TO TELEXACION	BDL (DL - 0.03)			
xxiv	Ethion	μg/l	ANtr/7.2/RES/02:2018	3	No relaxation				
XXV	Chlorpyrifos	μg/l	ANtr/7.2/RES/02:2018	30	No relaxation	BDL (DL - 0.03)			
xxvi	Phorate		ESDOURSY MISSERIAN SEATON SERVICES	30	ivo relaxation	BDL (DL - 0.03)			
	Phorate-sulfone	μg/l	ANtr/7.2/RES/02: 2018	2	No relaxation	DDL /DL - 0.020			
	Phorate-sulfoxide	1.0		2		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

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/31052023/3-8

Dago 1 of 5

Issued To:	C1 1	A T NO MARK TO A STATE OF THE S	Page 1 of 5	
M/s. Hindalco Industries Ltd., Tatijharia, Post Jamira,	Sample Inward No. ALPL/22052023/ENV-126/3-GW-2 Inward Date 22/05/2023 Reference 13562310015		Analysis Start 23/05/2023 Analysis End 29/05/2023 Report Issue Date 31/05/2023	
Tehsil Samri(Kusmi), District: 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 BKB Camp	Sample Source Borewell Water	Sampling Date	Sampling Time 2.55 pm	

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 #		
I	Biological Testing 1. Water			A THE STREET	Link ii		
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				1 103cm	Auscin	
3	Alkalinity (as CaCO ₃)	mg/l	IS 3025 (Part 23): 1986	200	600	142.82	
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 = 0.1)	
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	16.94	
9	Calcium (as Ca)	mg/l	IS 3025 (Part 40): 1991	75	200	54.87	
10	Chloramines (as Cl ₂)	mg/l	IS 3025 (Part 26): 2021	4.0	No relaxation		
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	0.21	
14	Nitrate (as NO ₁)	mg/l	APHA 23 rd Edition	45	No relaxation	7,93	
15	Odour		IS 3025 (Part 5) : 2018	Agreeable		BDL (DL – 2)	
16	pH		IS 3025 (Part 11) : 2022	6.5 to 8.5	Agreeable No relaxation	Agreeable	
17	Phenolic compounds (as C ₆ H ₅ OH)	mg/l	IS 3025 (Part 43): 1992	0.001	0.002	6.97 at 25°C	
18	Sulphate (as SO ₄)	mg/l	IS 3025 (Part 24) : 2022	200	400	BDL (DL - 0.001)	
19	Sulphide (as H ₂ S)	mg/l	IS 3025 (Part 29) : 1986	0.05	No relaxation	13.68	
20	Taste	-	IS 3025 (Part 8): 1984	Agreeable		BDL (DL - 0.03)	
21	Total dissolved solids	mg/l	IS 3025 (Part 16) : 2023	500	Agreeable	Agreeable	
22	Turbidity	NTU	IS 3025 (Part 10): 1984	300	2000	261	
23	Total hardness (as CaCO ₃)	mg/l	IS 3025 (Part 21) : 2009	200	600	0.4	
24	Mineral Oil	mg/l	ANtr/7.2/RES/06	200	No relaxation	169.74 BDL (DL - 0.1)	

Please refer last Page for Note and Remarks.

Verified By

Snehal Raut Deputy Technical Manager

Yogesh Kombe Deputy Technical Manager

Technical Manager

Authorized Signatories

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

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Test Report

Test Report No.: ALPL/31052023/3-8

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- Format Electron				
Issued To:	Sample Inward No.	ALPL/22052023/ENV-126/3-GW-2	Analysis Start 23/05/2023	
M/s. Hindalco Industries Ltd.,	Inward Date 22/05/2023		Analysis End 29/05/2023	
Tatijharia, Post Jamira,	Reference	13562310015	Report Issue Date 31/05/2023	
Tehsil Samri(Kusmi), District: Balrampur (C.G)	Reference Date 20/05/2023		Sample Category Ground Wat	
Sample Name Sam		ple Collected By ntative Mr. Kailash Chahande	Quantity Received 5 L & 250ml	
Sampling Location BKB Camp	Sample Source Borewell Wate		Sampling Time 2.55 pm	

TEST RESULTS

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
		112 11		Acceptable Limit	Permissible Limit #	
Н	Chemical Testing 2. Residues In Water			605		
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	0.31
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 - 0.0003)
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 - 0.001)
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

Test Report No. : ALPL/31052	AND DESCRIPTION OF THE PROPERTY OF THE PROPERT	CHICAGO CONTRACTOR CON	Page 3 of 5	
Issued To: M/s. Hindalco Industries Ltd., Tatijharia, Post Jamira, Tehsil Samri(Kusmi), District: Balrampur (C.G)	Sample Inward No. ALPL/22052023/ENV-126/3-GW-2 Inward Date 22/05/2023 Reference 13562310015 Reference Date 20/05/2023		Analysis Start 23/05/2023 Analysis End 29/05/2023 Report Issue Date 31/05/2023 Sample Category Ground Water	
Sample Name Ground Water	Sample Collected By Anacon Representative Mr. Kailash Chahande		Quantity Received 5 L & 250ml	
Sampling Location Sample Source BKB Camp Borewell Water		Sampling Date	Sampling Time 2.55 pm	

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 #	
П	Chemical Testing 2. Residues In Water					
41	Polychlorinated biphenyls					
	2,2',5-trichlorobiphenyl	µg/l	ANtr/7,2/RES/04: 2018			DDI (DI GOS
	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			BDL (DL - 0.03
	2,2',4,5,5'-pentachlorobiphenyl	μg/l	ANtr/7.2/RES/04: 2018	0.5 N	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	rg.	71. tt. 7.2 ft. 5/04. 2018			BDL (DL - 0.03
	Naphthalene	μg/l	ANtr/7.2/RES/03: 2018			DDI /DI - 0 00
	Acenaphthylene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.0)
	Acenaphthene	µg/l	ANtr/7.2/RES/03: 2018	1		BDL (DL - 0.03
	Fluorene	μg/l	ANtr/7.2/RES/03: 2018		BDL (DL - 0.03	
	Anthracene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.03
	Phenanthrene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.03
	Fluoranthene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.03
	Pyrene	μg/l	ANtr/7.2/RES/03: 2018		-	BDL (DL - 0.03
	Benzo(a)anthracene	µg/I	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/1	ANtr/7.2/RES/03: 2018			BDL (DL - 0.03
	Benzo(b)fluoranthene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.03
	Benzo(k)fluoranthene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.03
	Indeno(123,cd)pyrene	μg/l	ANtr/7.2/RES/03: 2018		ļ	BDL (DL - 0.03
	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

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Yogesh Kombe Deputy Technical Manager **Authorized Signatory**

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

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Test Report

Test Report No.: ALPL/31052023/3-8

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)23/ENV-126/3-GW-2	Analysis Start Analysis End	23/05/2023 29/05/2023
	Report Issue Date Sample Category	
l By ailash Chahande	0.000	
Sampling Date 18/05/2023	Sampling Time 2.55 pm	
	Sampling Date	Sailash Chahande 5 L & 2 Sampling Date Sampling

S.N.	Test Parameter	Measurement Unit	Test Method	IS 105 (Drinking Wa	ment as per 500 : 2012 ter Specifications) mendment No. 4	Test Result
43	Trihalomethanes			Acceptable Limit	Permissible Limit #	
i	Bromoform	ma/l				
ii	Dibromochloromethane	mg/l	pod iv. im in a level come	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		0.06	No relaxation	BDL (DL -0.05
44	Pesticide Residues Organochlo	mg/l		0.2	No relaxation	BDL (DL -0.05)
	Alpha-HCH	7	I source and a	No.		
ii	Beta HCH	μg/l	ANtr/7.2/RES/01: 2018	0.01	No relaxation	BDL (DL - 0.01
iii		μg/l	ANtr/7.2/RES/01: 2018	0.04	No relaxation	BDL (DL - 0.03
	Gamma - HCH (Lindane)	μg/l	ANtr/7.2/RES/01: 2018	2	No relaxation	BDL (DL - 0.03
iv	Delta- HCH	μg/1	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	
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		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		No relaxation	BDL (DL - 0.03)
XV	Endosulphan	15.		1	No relaxation	BDL (DL - 0.03)
	Alpha-Endosulphan					
	Beta-Endosulphan	μg/l	ANtr/7.2/RES/01: 2018	70.4	NAME OF THE OWNER O	SANSON TANGEN CONTRACTOR
	Endosulphan sulphate	1/24	ANU/ /.2/RES/01: 2018	0. 4	No relaxation	BDL (DL - 0.03)

Please refer last Page for Note and Remarks.

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Yogesh Kombe Deputy Technical Manager **Authorized Signatory**

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Test Report

Test Rep	ort N	o.: ALPL	/310520)23/3-8	
2016	57.37				

Page 5 of 5

		1 486 3 01 3
1 3		Analysis Start 23/05/2023
Inward Date	22/05/2023	Analysis End 29/05/2023
Reference	13562310015	Report Issue Date 31/05/2023
Reference Date	20/05/2023	Sample Category Ground Wate
		Quantity Received
Anacon Represei	ntative Mr. Kailash Chahande	5 L & 250ml
AND CONTEST CO	Constitution of the consti	Sampling Time 2.55 pm
	Sam Anacon Represer Sample Source	Inward Date 22/05/2023 Reference 13562310015 Reference Date 20/05/2023 Sample Collected By Anacon Representative Mr. Kailash Chahande Sample Source Sampling Date

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	IS 105 (Drinking Wat	ment as per 00 : 2012 er Specifications) nendment No. 4	Test Result
				Acceptable Limit	Permissible Limit #	
44	Pesticide Residues Organopho	sphorus				
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	1	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	L MY	·	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		- To relaxation	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	
xxvi	Phorate			30	140 (Claxation	BDL (DL - 0.03)
	Phorate-sulfone	μg/l	ANtr/7.2/RES/02:2018	2	No relaxation	DDI (DI 0.02)
	Phorate-sulfoxide			1.2	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'. • 'mg/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-----



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Test Report

Test Report No.: ALPL/30092023/3-7

Issued To: M/s. Hindalco Industries Ltd., Tatijharia, Post Jamira, Tehsil Samri(Kusmi), District: Balrampur (C.G)	Sample Inward No. Inward Date Reference Reference Date	ALPL/20092023/ENV- 20/09/2023 13562310015 20/05/2023	220/3-GW-1	Analysis Start Analysis End Report Issue Date Sample Category	Page 1 of 5 21/09/2023 25/092023 30/09/2023 Ground Water
Sample Name Ground Water	Sample Collected By Anacon Representative Mr. Kailash Chahande			Quantity I	
Sampling Location Piprapat/Near Mining Area	Sample Sour Borewell Wat	Source Sampling Date		5 L & 2 Samplin 2.50	g Time

TEST RESULTS

1 C 2 E 11 C 3 A 4 A 5 A 6 C 7 C 8 C 9 C	Test Parameter	Measurement Unit Test Method		IS 10500 (Drinking Water Including Amer	Test Result	
1 C 2 E 11 C 3 A 4 A 5 A 6 C 7 C 8 C 9 C	D' 1 1 170 1			Acceptable Limit	Permissible Limit #	1
2 E II C 3 A 4 A 5 A 6 C 7 C 8 C 9 C	Biological Testing 1. Water			1	23,1111	
11 C 3 A 4 A 5 A 6 C 7 C 8 C 9 C	Coliform	Per 100 ml	IS 15185 : 2016	Absent	Absent	Absent
3 A 4 A 5 A 6 C 7 C 8 C 9 C	Escherichia coli	Per 100 ml	IS 15185 : 2016	Absent	Absent	Absent
4 A 5 A 6 C 7 C 8 C 9 C	Chemical Testing 1. Water				2 to sent	AUSCIIL
5 A 6 C 7 C 8 C 9 C	Alkalinity (as CaCO ₃)	mg/l	IS 3025 (Part 23): 1986	200	600	171.63
6 C 7 C 8 C 9 C	Ammonia (as N)	mg/l	IS 3025 (Part 34): 1988	0.5	No relaxation	BDL (DL - 0.1)
7 C 8 C 9 C	Anionic surface active agents (as MBAS)	mg/l	IS 13428 : 2005 Annex K	0.2	1.0	
8 C	Colour	Hazen units	IS 3025 (Part 4): 2021	5	1.0	BDL (DL - 0.01)
9 C	Cyanide (as CN)	mg/l	IS 3025 (Part 27): 1986	0.05	No relaxation	DDI (DI 0.005)
	Chloride (as Cl)	mg/l	IS 3025 (Part 32):1988	250	1000	BDL (DL - 0.005)
	Calcium (as Ca)	mg/l	IS 3025 (Part 40): 1991	75	200	28.91
	Chloramines (as Cl ₂)	mg/l	IS 3025 (Part 26) : 2021	4.0	No relaxation	51.76
	ree residual chlorine	mg/l	IS 3025 (Part 26) : 2021	Min. 0.2	No relaxation	BDL (DL - 0.1)
	fluoride (as F)	mg/l	IS 3025 (Part 60) : 2008	1.0	1	BDL (DL - 0.1)
13 M	Magnesium (as Mg)	mg/l	IS 3025 (Part 46): 1994	30	1.5	0.27
14 N	Nitrate (as NO ₃)	mg/l	APHA 23 rd Edition	45	100	11.76
15 O	Odour		IS 3025 (Part 5) : 2018		No relaxation	BDL (DL - 2)
16 pl	H ·		IS 3025 (Part 11) : 2022	Agreeable	Agreeable	Agreeable
17 PI	Phenolic compounds (as C ₆ H ₅ OH)	mg/l	IS 3025 (Part 43): 1992	6.5 to 8.5	No relaxation	7.16 at 25°C
	sulphate (as SO ₄)	mg/l	IS 3025 (Part 24) : 2022	0.001	0.002	BDL (DL - 0.001)
19 St	sulphide (as H ₂ S)	mg/l	IS 3025 (Part 29) : 1986	200	400	16.95
20 Ta	aste		IS 3025 (Part 8): 1984	0.05	No relaxation	BDL (DL - 0.03)
21 To	otal dissolved solids	mg/l	IS 3025 (Part 16): 2023	Agreeable	Agreeable	Agreeable
	urbidity	NTU	IS 3025 (Part 10) : 1984	500	2000	452
23 To	otal hardness (as CaCO ₃)	mg/l	IS 3025 (Part 10): 1984 IS 3025 (Part 21): 2009	1	5	0.6
24 M		1116/1	15 5025 (Part 21): 2009	200	600	177.70

Please refer last Page for Note and Remarks.

Verified By

Deputy Technical Manager

Radha Pawar Chemist

Pooja Kathane Technical Manager

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

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Test Report

Test Report No.: ALPL/30092023/3-7

Issued To: M/s. Hindalco Industries Ltd., Tatijharia, Post Jamira, Tehsil Samri(Kusmi), District: Balrampur (C.G)	Sample Inward No. Inward Date Reference Reference Date	ALPL/20092023 20/09/2023 13562310015 20/05/2023	3/ENV-220/3-GW-1	Analysis Start 21/09/202 Analysis End 25/09202 Report Issue Date 30/09/202 Sample Category Ground W	
Sample Name Ground Water	Sample Collected By Anacon Representative Mr. Kailash Chahande		Quantity 1		
Sampling Location Piprapat/Near Mining Area	Sample Sour Borewell Wat	ce	Sampling Date 13/09/2023	Samplin 2.50	g Time

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	IS 105 (Drinking Wa	ment as per 500 : 2012 ter Specifications) mendment No. 4	Test Result
		26		Acceptable Limit	Permissible Limit #	1
П	Chemical Testing 2. Residues In Water				Limit #	
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	0.21
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 - 0.003
36	Nickel (as Ni)	mg/l	IS 3025 (Part 2): 2019	0.02	No relaxation	
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) BDL (DL - 0.1)

Please refer last Page for Note and Remarks.

Verified By

Mangesh Fande Technical Manager Authorized Signatory

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FP-34, 35, Food Park, Five Star Industrial Estate, MIDC Butibori, Nagpur, Maharashtra, India - 441 122 \$ + 91 8045685558 ■ Email : info@anacon.in

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Test Report

Test Report No.: ALPL/30092023/3-7

Issued To: M/s. Hindalco Industries Ltd., Tatijharia, Post Jamira, Tehsil Samri(Kusmi), District: Balrampur (C.G)	Sample Inward No. Inward Date Reference Reference Date	ALPL/20092023/EN 20/09/2023 13562310015 20/05/2023	NV-220/3-GW-1	Analysis Start Analysis End Report Issue Date Sample Category	Page 3 of 5 21/09/2023 25/092023 30/09/2023 Ground Water
Sample Name Ground Water	Sample Collected By Anacon Representative Mr. Kailash Chahande			Quantity I	Received
Sampling Location Piprapat/Near Mining Area	Sample Source Borewell Water	ce Sa	mpling Date	5 L & 250Hi	

TEST RESULTS

			TEST RESULTS			
S.N.	Test Parameter	Measurement Unit	Test Method	IS 105 (Drinking Wat	ment as per 500 : 2012 ter Specifications) mendment No. 4	Test Result
II	Chamical Tari			Acceptable Limit	Permissible Limit #	
11	Chemical Testing 2. Residues In Water				1 23111111	
41	Polychlorinated biphenyls					
	2,2',5-trichlorobiphenyl	μg/l	ANtr/7.2/RES/04: 2018	1		
	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		BDL (DL - 0.0
	2,2',3,4,4',5'-hexachlorobiphenyl	μg/l	ANtr/7,2/RES/04: 2018		No relaxation	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		2010			BDL (DL - 0.0
1	Naphthalene	μg/l	ANtr/7.2/RES/03: 2018			DDI DI
	Acenaphthylene	μg/l	ANtr/7.2/RES/03: 2018	1		BDL (DL - 0.0
	Acenaphthene	μg/l	ANtr/7.2/RES/03: 2018	1		BDL (DL - 0.0
	Fluorene	µg/I	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			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		N. 100	BDL (DL - 0.0
- }	Benzo(a)anthracene	μg/l	ANtr/7.2/RES/03: 2018	0.1	No relaxation	BDL (DL - 0.0
- 1	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)
ŀ	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	175		BDL (DL - 0.0)
-	Dibenzo(a,h)anthracene	μg/l	ANtr/7.2/RES/03: 2018		1	BDL (DL - 0.03
	Benzo(ghi)perylene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.03

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Test Report

Test Report No.: ALPL/30092023/3-7

Issued To: M/s. Hindalco Industries Ltd., Tatijharia, Post Jamira, Tehsil Samri(Kusmi), District: Balrampur (C.G)	Sample Inward No. Inward Date Reference Reference Date	ALPL/20092023/EI 20/09/2023 13562310015 20/05/2023	NV-220/3-GW-1	Analysis Start 21/09/202 Analysis End 25/09202 Report Issue Date 30/09/202 Sample Category Ground W	
Sample Name Ground Water	Sample Collected By Anacon Representative Mr. Kailash Chahande			Quantity	
Sampling Location Piprapat/Near Mining Area	Sample Source Borewell Wat	ce Sa	mpling Date 13/09/2023	5 L & 250ml Sampling Time 2.50 pm	

TEST RESULTS

S.N.	Test Parameter	Test Parameter Measurement Unit Test Method		Require IS 105 (Drinking Wa Including A	Test Result	
43	Trihalomethanes			Acceptable Limit	Permissible Limit #	
i	Bromoform	mg/l		0.1		1
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		0.06	No relaxation	BDL (DL -0.05
44	Pesticide Residues Organochlo	rine mg/1	I	0.2	No relaxation	BDL (DL -0.05
i	Alpha-HCH	μg/l	ANtr/7.2/RES/01: 2018			
ii	Beta HCH		ANtr/7.2/RES/01: 2018	0.01	No relaxation	BDL (DL - 0.01
iii	Gamma - HCH (Lindane)	μg/l		0.04	No relaxation	BDL (DL - 0.03
iv	Delta- HCH	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	Aldrin	μg/l	ANtr/7.2/RES/01: 2018	20	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		μg/l	ANtr/7.2/RES/01: 2018	0.03	No relaxation	BDL (DL - 0.03
ix	Butachlor	μg/l	ANtr/7.2/RES/01: 2018	125	No relaxation	BDL (DL - 0.03
	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	
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	i	No relaxation	BDL (DL - 0.03)
XV	Endosulphan		The second secon	1	NO TELEXACION	BDL (DL - 0.03)
	Alpha-Endosulphan					
	Beta-Endosulphan	μg/l	ANtr/7.2/RES/01: 2018	0. 4	N 1	DD1
	Endosulphan sulphate	1.0		0.4	No relaxation	BDL (DL - 0.03)

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Test Report

Test Report No.: ALPL/30092023/3-7

Issued To: M/s. Hindalco Industries Ltd., Tatijharia, Post Jamira, Tehsil Samri(Kusmi), District: Balrampur (C.G)	Salapie Hward No. ALPL/2009/2023/ENV-22		JV-220/3-GW-1	Analysis Start Analysis End Report Issue Date Sample Category	Page 5 of 5 21/09/2023 25/092023 30/09/2023 Ground Water
Sample Name Ground Water		ple Collected By stative Mr. Kailash	Chahande	Quantity	
Sampling Location Piprapat/Near Mining Area	Sample Source	Sample Source Sampling Date Borewell Water 13/09/2023		5 L & 250ml Sampling Time 2.50 pm	

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Requirer IS 105 (Drinking Wat Including An	Test Result	
44	Pesticide Residues Organopho	rana Brasina de		Acceptable Limit	Permissible Limit #	1
xvi	2.4 Dishlarenham			AL		
xvii	2,4-Dichlorophenoxyacetic acid Monocrotophos		ANtr/7.2/RES/02: 2018	30	No relaxation	BDL (DL - 0.03)
xviii		μg/l	ANtr/7.2/RES/02: 2018		No relaxation	BDL (DL - 0.03)
	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	
XX	Paraoxon methyl	μg/l	ANtr/7.2/RES/02: 2018		140 relaxation	BDL (DL - 0.03)
xxi	Isoproturon	μg/l	ANtr/7.2/RES/02 : 2018	9	No relevation	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	190	No relaxation	BDL (DL - 0.03)
xxiv	Ethion	μg/l	ANtr/7.2/RES/02:2018	2		BDL (DL - 0.03)
XXV	Chlorpyrifos	μg/l	ANtr/7.2/RES/02 : 2018	3	No relaxation	BDL (DL - 0.03)
xxvi	Phorate	μg/1	71.2/KES/02 . 2018	30	No relaxation	BDL (DL - 0.03)
	Phorate-sulfone	μg/l	ANtr/7.2/RES/02 : 2018	2	2004 N S	
	Phorate-sulfoxide	MB/1	ALTU / .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". "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/30092023/3-8

M/s. Hindalco Industries Ltd., latijharia, Post Jamira, lehsil Samri(Kusmi), listrict: Balrampur (C.G) latijharia, Post Jamira, Reference Date 20/		ALPL/20092023/ENV-220/3-GW-2 20/09/2023 13562310015 20/05/2023		Analysis Start Analysis End Report Issue Date Sample Category	Page 1 of 5 21/09/2023 25/092023 30/09/2023 Ground Water
Sample Name Samp		1		Quantity Received 5 L & 250ml Sampling Time 3.50 pm	

S.N.	Test Parameter	Measurement Unit Test Method		Requireme IS 10500 (Drinking Water Including Ame	Test Result		
1	Biological Total			Acceptable Limit	Permissible Limit #	1	
1	Biological Testing 1. Water Coliform			A W	Limit #		
2		Per 100 ml	IS 15185 : 2016	Absent	Absent	Absent	
II	Escherichia coli	Per 100 ml	IS 15185 : 2016	Absent	Absent		
3	Chemical Testing 1. Water				riosciii	Absent	
	Alkalinity (as CaCO ₃)	mg/l	IS 3025 (Part 23): 1986	200	600	102.10	
4	Ammonia (as N)	mg/l	IS 3025 (Part 34): 1988	0.5	No relaxation	182.49	
5	Anionic surface active agents (as MBAS)	mg/l	IS 13428 : 2005 Annex K	0.2	1.0	BDL (DL - 0.1)	
7	Colour	Hazen units	IS 3025 (Part 4): 2021	5	1.0	BDL (DL - 0.01)	
350	Cyanide (as CN)	mg/l	IS 3025 (Part 27): 1986	0.05		DDV (D)	
8	Chloride (as Cl)	mg/l	IS 3025 (Part 32) :1988	250	No relaxation	BDL (DL - 0.005	
9	Calcium (as Ca)	mg/l	IS 3025 (Part 40): 1991	75	1000	17.21	
10	Chloramines (as Cl ₂)	mg/l	IS 3025 (Part 26) : 2021	4.0	200	53.64	
11	Free residual chlorine	mg/l	IS 3025 (Part 26) : 2021		No relaxation	BDL (DL - 0.1)	
12	Fluoride (as F)	mg/l	IS 3025 (Part 60) : 2008	Min. 0.2	1	BDL (DL - 0.1)	
13	Magnesium (as Mg)	mg/l	IS 3025 (Part 46): 1994	1.0	1.5	0.28	
14	Nitrate (as NO ₃)	mg/l	APHA 23 rd Edition	30	100	12.61	
15	Odour	mg/1		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)	mg/l	IS 3025 (Part 11) : 2022	6.5 to 8.5	No relaxation	7.14 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)		IS 3025 (Part 24) : 2022	200	400	12.68	
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	273	
23	Total hardness (as CaCO ₃)	NTU	IS 3025 (Part 10): 1984	1	5	0.6	
24	Mineral Oil	mg/l	IS 3025 (Part 21): 2009	200	600	185.89	
	ase refer last Page for Note and Remark	mg/l	ANtr/7.2/RES/06	1	No relaxation	BDL (DL - 0.1)	

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Deputy Technical Manager

Radha Pawar Chemist

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Pooja Kathane Technical Manager



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Test Report

Test Report No.: ALPL/30092023/3-8

Issued To: M/s. Hindalco Industries Ltd., Tatijharia, Post Jamira, Tehsil Samri(Kusmi), District: Balrampur (C.G)	Sample Inward No. Inward Date Reference Reference Date	Inward Date 20/09/2023 Reference 13562310015		Analysis Start Analysis End Report Issue Date Sample Category	Page 2 of 5 21/09/2023 25/092023 30/09/2023 Ground Water
Sample Name Ground Water	Sam Anacon Represer	ple Collected I		Quantity 1	
Sampling Location BKB Camp	Sample Source Sampling Date			5 L & 250ml Sampling Time 3.50 pm	

TEST RESULTS

S.N.	Test Parameter	Test Parameter Measurement Unit	Test Method	Require IS 105 (Drinking Wa Including A	Test Result	
				Acceptable Limit	Permissible Limit #	
П	Chemical Testing 2. Residues In Water			ZX:	Limit #	
25	Arsenic (as As)	mg/l	IS 3025 (Part 37): 2022	0.01	No relaxation	DDI (DI
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	0.7	No relaxation	BDL (DL - 0.01
29	Copper (as Cu)	mg/l	IS 3025 (Part 2): 2019		2.4	BDL (DL - 0.1)
30	Cadmium (as Cd)	mg/l	IS 3025 (Part 2): 2019	0.05	1.5	BDL (DL - 0.03
31	Iron (as Fe)	mg/l	IS 3025 (Part 2): 2019	0.003	No relaxation	BDL (DL - 0.00)
32	Lead (as Pb)	mg/l	IS 3025 (Part 2): 2019	1.0	No relaxation	0.27
33	Manganese (as Mn)	mg/l		0.01	No relaxation	BDL (DL - 0.00)
34	Mercury (as Hg)	mg/l	IS 3025 (Part 2) : 2019	0.1	0.3	BDL (DL - 0.05
35	Molybdenum (as Mo)	mg/l	IS 3025 (Part 48) : 1994	0.001	No relaxation	BDL (DL - 0.000
36	Nickel (as Ni)		IS 3025 (Part 2) : 2019	0.07	No relaxation	BDL (DL - 0.01
37	Selenium (as Se)	mg/l	IS 3025 (Part 2) : 2019	0.02	No relaxation	BDL (DL - 0.01
38	Silver (as Ag)	mg/l	IS 3025 (Part 56) : 2003	0.01	No relaxation	BDL (DL- 0.001
39	Total Chromium (as Cr)	mg/l	IS 13428 (Annex J): 2005	0.1	No relaxation	BDL (DL - 0.00
40	Zinc (as Zn)	mg/l	IS 3025 (Part 2): 2019	0.05	No relaxation	BDL (DL - 0.03
	Zine (as Zin)	mg/l	IS 3025 (Part 2): 2019	5	15	BDL (DL - 0.1)

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Mangesh Fande Technical Manager Authorized Signatory



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Test Report

Test Report No.: ALPL/30092023/3-8

Issued To: M/s. Hindalco Industries Ltd., Tatijharia, Post Jamira, Tehsil Samri(Kusmi), District: Balrampur (C.G)	Sample Inward No. Inward Date Reference Reference Date	ALPL/2009202 20/09/2023 1356231001 20/05/2023	23/ENV-220/3-GW-2 5	Analysis Start Analysis End Report Issue Date Sample Category	Page 3 of 5 21/09/2023 25/092023 30/09/2023 Ground Water
Sample Name Ground Water	Sam Anacon Represer	ple Collected		Quantity	
Sampling Location BKB Camp	Sample Sour Borewell Wat	ce Sampling Date		5 L & 250ml Sampling Time 3.50 pm	

			TEST RESULTS	1	5.50 р.	
S.N.	Test Parameter	Measurement Unit	Test Method	IS 105 (Drinking Wat Including Ar	ment as per 500 : 2012 ter Specifications) mendment No. 4	Test Result
II				Acceptable Limit	Permissible Limit #	
	Chemical Testing 2. Residues In Water			1		
41	Polychlorinated biphenyls					
	2,2',5-trichlorobiphenyl	μg/l	ANtr/7.2/RES/04: 2018	-		
	2,4,4'-trichlorobiphenyl	μg/l	ANtr/7.2/RES/04: 2018			BDL (DL - 0.0
	2,2',5,5'-tetrachlorobiphenyl	,5,5 -tetrachiorobiphenyl ug/l ANtr/7 2/PES/04: 2018			BDL (DL - 0.0	
	2,2',4,5,5'-pentachlorobiphenyl	μg/l	ANtr/7.2/RES/04: 2018	0.5	0.5 No relaxation	BDL (DL - 0.0
	2,2',3,4,4',5'-hexachlorobiphenyl	μg/l	ANtr/7.2/RES/04: 2018 0.5	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	-		BDL (DL - 0.0
42	Polynuclear aromatic hydrocarbons	1 70	74407.274E3/04. 2018			BDL (DL - 0.0
	Naphthalene	μg/l				
	Acenaphthylene	μg/l	ANtr/7.2/RES/03: 2018 ANtr/7.2/RES/03: 2018	-		BDL (DL - 0.0
	Acenaphthene	µg/l	ANtr/7.2/RES/03: 2018	1		BDL (DL - 0.0
	Fluorene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.0
- 1	Anthracene	µg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.0
	Phenanthrene	μg/l	ANtr/7.2/RES/03: 2018	1		BDL (DL - 0.0
- 1	Fluoranthene	µg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.0
- 1	Pyrene	µg/I	ANtr/7.2/RES/03: 2018	e e		BDL (DL - 0.0
- 1	Benzo(a)anthracene	μg/l	ANtr/7.2/RES/03: 2018	0.1	No relaxation	BDL (DL - 0.0
1	Chrysene	μg/l	ANtr/7.2/RES/03: 2018		vesar ADARTHERA KITOMANAT GODE	BDL (DL - 0.0
ļ	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
ļ	Benzo(k)fluoranthene	μg/l	ANtr/7.2/RES/03: 2018			BDL (DL - 0.03
	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			BDL (DL - 0.03 BDL (DL - 0.03

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Radha Pawar Chemist

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Test Report

Test Report No.: ALPL/30092023/3-8

Issued To: M/s. Hindalco Industries Ltd., Tatijharia, Post Jamira, Tehsil Samri(Kusmi), District: Balrampur (C.G)	Sample Inward No. ALPL/20092023/ENV-220/3-GW-2 Inward Date 20/09/2023 Reference 13562310015 Reference Date 20/05/2023		Analysis Start Analysis End Report Issue Date Sample Category	Page 4 of 5 21/09/2023 25/092023 30/09/2023 Ground Water	
Sample Name Ground Water	Sample Collect Anacon Representative Mr.			Quantity Received 5 L & 250ml Sampling Time 3.50 pm	
Sampling Location BKB Camp	Sample Source Borewell Water	ce Sampling Date			

S.N.	Test Parameter	Measurement Unit	Test Method	Require IS 105 (Drinking Wa Including A	Test Result	
43	Trihalomethanes			Acceptable Limit	Permissible Limit #	
i	Bromoform	mg/l		0.1		
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 Organochlo	rine		0.2	No relaxation	BDL (DL -0.05)
i	Alpha-HCH	μg/l	ANtr/7.2/RES/01: 2018			
ii	Beta HCH			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	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	Aldrin	μg/l	ANtr/7.2/RES/01: 2018	20	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	0.03	No relaxation	BDL (DL - 0.03
ix	p,p'-DDE	μg/l	ANtr/7.2/RES/01: 2018	125	No relaxation	BDL (DL - 0.03
		µg/1 🦠	ANtr/7.2/RES/01: 2018	1	No relaxation	BDL (DL - 0.03)
x xi	o,p'-DDE	μg/l	ANtr/7.2/RES/01: 2018	1	No relaxation	BDL (DL - 0.03)
xii	p,p'-DDD	μg/1	ANtr/7.2/RES/01: 2018	1	No relaxation	BDL (DL - 0.03)
ciii	o,p'-DDD	μg/l	ANtr/7.2/RES/01: 2018	1	No relaxation	
	o,p'- DDT	μg/l	ANtr/7.2/RES/01: 2018	- 1	No relaxation	BDL (DL - 0.03)
civ	p,p'- DDT	μg/l	ANtr/7.2/RES/01: 2018	1	No relaxation	BDL (DL - 0.03)
XV	Endosulphan			•	140 ICIAXALION	BDL (DL - 0.03)
ļ	Alpha-Endosulphan					
ļ	Beta-Endosulphan	μg/l	ANtr/7.2/RES/01: 2018	0. 4	No salassas	nn. n.
	Endosulphan sulphate	10.00	2010	0.4	No relaxation	BDL (DL - 0.03)

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Radha Pawar Chemist

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Test Report

Test Report No.: ALPL/30092023/3-8

Issued To: M/s. Hindalco Industries Ltd., Tatijharia, Post Jamira, Tehsil Samri(Kusmi), District: Balrampur (C.G)	Sample Inward No. ALPL/20092023/ENV-220/3-GW-2 Inward Date 20/09/2023 Reference 13562310015 Reference Date 20/05/2023		Analysis Start Analysis End Report Issue Da Sample Categor	SCHOOL SCHOOL SERVICE STATE ST
Sample Name Ground Water		ple Collected By stative Mr. Kailash Chah	appoint the common to the comm	ty Received
Sampling Location BKB Camp	Sample Sourd Borewell Wat	ce Samplin	g Date Samp	& 250ml ling Time 50 pm

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Require IS 105 (Drinking Wat Including An	Test Result	
44	Pesticide Residues Organopho			Acceptable Limit	Permissible Limit #	
xvi	2.4 Diables organophic					
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	P	No relaxation	
xviii	Atrazine	μg/l	ANtr/7.2/RES/02: 2018	2		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	0.3	No relaxation	BDL (DL - 0.03
xxi	Isoproturon	μg/l	ANtr/7.2/RES/02 : 2018		1 5	BDL (DL - 0.03)
xxii	Malathion		ANtr/7.2/RES/02:2018	9	No relaxation	BDL (DL - 0.03)
xxiii	Malaoxon	μg/l		190	No relaxation	BDL (DL - 0.03)
xxiv	Ethion	μg/l	ANtr/7.2/RES/02: 2018		-	BDL (DL - 0.03)
		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	
xxvi	Phorate			30	rorciaxation	BDL (DL - 0.03)
	Phorate-sulfone	μg/l	ANtr/7.2/RES/02: 2018	2		
	Phorate-sulfoxide	L. O.	. M. 1. 21 (L. 3/02 . 2016	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. NOTES: ● Please see watermark "Original Test Report" to confirm the authenticity of this report. ● Results 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

1550.00

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

Tatijharia Bauxite Mine Of M/s Hindalco Industries Limited

Pr	oject Addres	ss:			Villag	/illage-tatijharia							10			
Village:			Tatijh	Tatijhariya				I	Block:	Kusr	ni	AX.				
Di	District:				Balra	Balrampur				;	State:	Chh	attisgar	h		
Pi	Pin Code:															
Communication Address:					Hindalco Industries Limited, Mines Division Samri, At And Po - Kusmi, Kusmi, Balrampur, Chhattisgarh - 497224											
Ac	Address of CGWB Regional Office :			And L	Central Ground Water Board North Central Chhattisgarh, 2nd Floor, Lk Corporate And Logistic Park, Dhamtari Road, Nh-30, Dumartarai, Raipur, Chhattisgarh - 492015											
1.	NOC No.:		CGWA/NOC/MIN/REN/2/2023/7571				-	2.	Date o	ite of Issuence 03/04/2023						
3.	Application	No.:	21-4/	1434/C	T/MIN/2	T/MIN/2018			69	4.	Category: Safe (GWRE 2020)					
5.	Project Stat	tus:	Existi	ng Gro	und Wa	ater		1	76	6.	NOC Type:			Renewal		
7.	Valid from:		28/03	/2023						8.	Valid up to: 27/03/2025				25	
9.	Ground Wa	ter Abstr	raction	Permi	tted:		1	100								
	Fresh \	Nater			Saline	Saline Water			[Dewatering				Total		
	m³/day	m³/ye	ar	m³.	/day	day m³/year m³/d		n³/da	y m³/year		m	m³/day		/year		
	5.00 1550.00		7	~ ~												
10.	Details of g	round wa	ater ab	stracti	on /Dew	/atering	g struc	tures								
			Tota	al Exis	ting No	.:5						То	tal Pro	posed N	lo.:0	
				DW	DCB	BW	TW	MP	MP	u	DW	DCB	BW	TW	MP	MPu
	Abstraction	Structure	e*	0	0	1	4	0	0		0	0	0	0	0	0

(Compliance Conditions given overleaf)

*DW- Dug Well; DCB-Dug-cum-Bore Well; BW-Bore Well; TW-Tube Well; MP-Mine Pit; MPu-Mine Pumps

11. Ground Water Abstraction/Restoration Charges paid (Rs.):

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 / tube wells / dug wells shall be collected during April/May every year and analysed in NABL accredited laboratories for basic parameters (cations and anions), heavy metals, pesticides/ organic compounds etc. Water quality data shall be made available to CGWA through the web portal.
- 5) In case of mining projects, additional key wells shall be established in consultation with the Regional Director, CGWB for ground water level monitoring four (4) times a year (January, May, August and November) in core as well as buffer zones of the mine.
- 6) In case of mining project the firm shall submit water quality report of mine discharge/ seepage from Govt. approved/ NABL accredited lab
- 7) The firm shall report compliance of the NOC conditions online in the website (www.cqwa-noc.gov.in) within one year from the date of issue of this NOC.
- 8) Industries abstracting ground water in excess of 100 m 3 /d shall undertake annual water audit through certified auditors and submit audit reports within three months of completion of the same to CGWA. All such industries shall be required to reduce their ground water use by at least 20% over the next three years through appropriate means.
- 9) Application for renewal can be submitted online from 90 days before the expiry of NOC. Ground water withdrawal, if any, after expiry of NOC shall be illegal & liable for legal action as per provisions of Environment (Protection) Act. 1986.
- 10) This NOC is subject to prevailing Central/State Government rules/laws/norms or Court orders related to construction of tube well/ground water abstraction structure / recharge or conservation structure/discharge of effluents or any such matter as applicable.

General conditions:

- 11) No additional ground water abstraction and/or de-watering structures shall be constructed for this purpose without prior approval of the Central Ground Water Authority (CGWA).
- 12) The proponent shall seek prior permission from CGWA for any increase in quantum of groundwater abstraction (more than that permitted in NOC for specific period).
- 13) Proponents shall install roof top rain water harvesting in the premise as per the existing building bye laws in the premise.
- 14) The project proponent shall take all necessary measures to prevent contamination of ground water in the premises failing which the firm shall be responsible for any consequences arising thereupon.
- 15) In case of industries that are likely to contaminate the ground water, no recharge measures shall be taken up by the firm inside the plant premises. The runoff generated from the rooftop shall be stored and put to beneficial use by the firm.
- 16) Wherever feasible, requirement of water for greenbelt (horticulture) shall be met from recycled / treated waste water.
- 17) Wherever the NOC is for abstraction of saline water and the existing wells (s) is /are yielding fresh water, the same shall be sealed and new tubewell(s) tapping saline water zone shall be constructed within 3 months of the issuance of NOC. The firm shall also ensure safe disposal of saline residue, if any.
- 18) Unexpected variations in inflow of ground water into the mine pit, if any, shall be reported to the concerned Regional Director, Central Ground Water Board.
- 19) In case of violation of any NOC conditions, the applicant shall be liable to pay the penalties as per Section 16 of Guidelines.
- 20) This NOC does not absolve the proponents of their obligation / requirement to obtain other statutory and administrative clearances from appropriate authorities
- 21) The issue of this NOC does not imply that other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would consider the project on merits and take decisions independently of the NOC.
- 22) In case of change of ownership, new owner of the industry will have to apply for incorporation of necessary changes in the No Objection Certificate with documentary proof within 60 days of taking over possession of the premises.
- 23) This NOC is being issued without any prejudice to the directions of the Hon'ble NGT/court orders in cases related to ground water or any other related matters.
- 24) Proponents, who have installed/constructed artificial recharge structures in compliance of the NOC granted to them previously and have availed rebate of upto 50% (fifty percent) in the ground water abstraction charges/ground water restoration charges, shall continue to regularly maintain artificial recharge structures.
- 25) Industries which are likely to cause ground water pollution e.g. Tanning, Slaughter Houses, Dye, Chemical/ Petrochemical, Coal washeries, pharmaceutical, other hazardous units etc. (as per CPCE list) need to undertake necessary well head protection measures to ensure prevention of ground water pollution as per Annexure III of the guidelines.
- 26) In case of new infrastructure projects having ground water abstraction of more than 20 m3/day, the firm/entity shall ensure implementation of dual water supply system in the projects.
- 27) In case of infrastructure projects, paved/parking area must be covered with interlocking/perforated tiles or other suitable measures to ensure groundwater infiltration/harvesting.
- 28) In case of coal and other base metal mining projects, the project proponent shall use the advance dewatering technology (by construction of series of dewatering abstraction structures) to avoid contamination of surface water.
- 29) The NOC issued is conditional subject to the conditions mentioned in the Public notice dated 27.01.2021 failing which penalty/EC/cancellation of NOC shall be imposed as the case may be.
- 30) This NOC is issued subject to the clearance of Expert Appraisal Committee (EAC) (if applicable)

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

CENTRAL GROUND WATER AUTHORITY

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

Receipt

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

Application No,:	21-4/1434/CT/MIN/2018		
Name of Firm:	TATIJHARIA BAUXITE MINE	OF M/S HINDALCO INDUS	STRIES LIMITED
AppType Category:	Base Metal Ores		
Application Type:	Mining		1
PAN/GSTIN No. of Firm	n/Individual:	/	

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

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

Tatijahria Bauxite Mines

Six monthly Average Ambient Air Quality Data

Period: October 2023 to March 2024

Month	Monitoring	Monitoring Parameters							
WIOHTH	Location	$PM_{10} (\mu g/m^3)$	$PM_{2.5} (\mu g/m^3)$	$SO_2 (\mu g/m^3)$	NOx (μg/m ³)				
Oct-23		56.3	19.9	11.7	19.4				
Nov-23]	67.8	27.3	13.4	24.6				
Dec-23	Tatijharia	68.6	27.5	14.1	24.6				
Jan-24	Vllage/	58.0	22.5	10.0	21.3				
Feb-24	Nr.Weigh Bridge	63.6	25.5	12.4	23.0				
Mar-24	Bridge	71.6	29.6	14.4	27.0				
Six Monthly Average		64.3	25.4	12.7	23.3				
Oct-23		61.3	24.8	13.4	23.6				
Nov-23		65.6	26.4	14.5	27.0				
Dec-23	D: //	63.7	26.5	14.3	25.2				
Jan-24	Piprapat/ Nr. Mining	59.8	26.6	9.8	21.1				
Feb-24	Area	62.5	25.0	11.8	22.3				
Mar-24		68.6	25.8	11.6	22.8				
Six Monthly Average	-	63.6	25.9	12.6	23.7				
Oct-23		54.9	22.2	10.7	22.8				
Nov-23		66.9	27.1	14.1	26.9				
Dec-23		68.6	27.5	14.0	25.6				
Jan-24	Virhorepat	62.8	23.8	11.8	23.2				
Feb-24	, mierspar	64.9	22.7	11.4	22.5				
Mar-24		69.6	28.8	12.9	27.3				
Six Monthly Average		64.6	25.4	12.5	24.7				
Oct-23		56.2	20.6	9.8	20.3				
Nov-23		58.8	20.7	10.9	20.8				
Dec-23		66.7	27.8	13.5	24.7				
Jan-24	Khainpat	61.9	25.0	11.8	21.4				
Feb-24		66.0	23.0	11.0	25.3				
Mar-24	7	69.7	28.0	11.2	22.0				
Six Monthly Average		63.2	24.2	11.4	22.4				
NAAQ Standard		100	60	80	80				

For Hindatco Industries Limited



Hindalco Industries Limited

Mines Division, Samri

Date: 22-01-2024

Environment Management Cell

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

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

Agent of Mines

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

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 FY 2023-24.

Sl. No.	Environment Protection Measure	Actual Cost (Lakh) FY-2023-24
01	Environment Monitoring	6.02
02	Greenbelt development	9.0
03	Reclamation/ rehabilitation of mined out area (Samri-11.135Ha., Kudag-1.958Ha., Tatijharia-11.265Ha.) Total- 24.358 Ha.	73.074
04	Drip irrigation	6.52
	Total	94.614

- 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.

For Hindalco Industries Limited

Samn Mines Division Hindalco Industries Ltd

दजन जुआारया स । / हजार वरामद

बड़-छोटे जुआरी एक ही दिन पकड़े गए

पुलिस ने जीतीयत संक्रियत

गते हुए पश्ती के न पांद यदे देव । जुआईएवी को समध्य हासार 'कपए मद करने में व्यवा पाई है। । सुबर ओहा क समाप धेसे लोग भी ॥ छोत्रते प्रकट्टे पत गरी के अपदी वर्ष संदिप तिथिए 4 पत् अरहे हैं। इस अरहे हैं।

प्रकृष आभियार

अआरिया कंप मदा कई है। पुरिसा अधीवन हेम्कुण राठीर निर्देशन में ग्रांक्स्पों के आर. हर में। नेदाय में मोदो एवं नगर क्रम प्रसार सार्याकी, विशेष शस के प्रभारी प्रान्तिकार वित पूत्र एका के नेएक में निकल ट्रा घल ने मध्ये पहले हिम बांध समीप पूजा खेल रहे सभेश ज्ञाल, मनीच अध्यक्त, विक

ब्रह्मेक व्यक्ताल,

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गांति निकेतन सहाविद्यालय वृत्रधासीक्षस वि.धि. से सम्बद्ध पंजाबी कालीनी स्चलबंद विलासपुर

Hn.- 94252-91236

हरिसूर्वि व्यूज (अधिकानुह)। रामगोराज अववाल की है (कर यह एकीया । इस जुआ प्रस् से प्रतिस में कं अल 11700 रूपए पूर्व ताल

लिए रखे 52 मी समय थ जार के यसे करा किए नए हैं। पुलस की यह मार्रिशह राजि ३ वर्ण एवं ९ सते

> 可用证 पुलिस का यह अधियान अरक सूचर भा कारो रहा। ज्यार फे असीपादा मोहले स्थित गोहा वासाय के पोब ने पेरास हार जीत का यांनं समा रहे संबंध प्रसाद, गव् समाद

त्र स् तादक, ভাষাত্বাত, কিমাৰ दादव को रंगे डावें प्रकार उनके। कान्ये में संरक्षण 250 कर्पण एक ताश के प्रते जन्म क्रिए गर्हे। सभी जुआहियों पर पृष्टिस में 13 जुआ एस का आतार का है।



चेले खोग भी चोलते हैं जुआ

वर्गनद किया है। इसके नाद पुलिस

को होस चीवहाजारा ग्रहें । वहां पर

बुआ खेल रहे सुरेश लकड़ा, रेजी

भारती, राक्षेत्र सिंह, घटाँग खान,

अपान गुला, सताप को विशासन में

क्षेत्रार अनक अध्यो से ए व समाने के



हिण्डालको इण्डस्ट्रीन लिजिटेड

(सामरी खान प्रभाग)

स्पाना

सर्वसाधारण को राजित किया जाता है कि वनएवे प्रवीवस्था मेंत्रालय, नई दिला से उनके पत्र क्रमांक जे 1015/353/2007-IA.II(M) दिशोक 27.07.2007 संसा चे.11015/954/2007-IA.II(M) fortun 27.07.2007 के तहत हिण्डालक इंग्डस्ट्रीज लिमिटे ड के सामग्रे तथा कृदान बॉक्सरईट खादानी के क्षमता विस्तार (0.50 चिलियन ट्रंप तथ्रा 0.06 मिल्यिन टन ऑक्साईट उत्पादन प्रतिवर्ध) हेतु प्रयोवस्पीय स्वीकृति अनुमादित होका प्राप्त हो जुकी है। इपराक्त स्वाकृति पत्र की प्रविनिधि छ.ग. पर्यावरण संरक्षण मंडल कार्यालय में उपलब्ध है एवं यन एवं धर्याबाग मंत्रालय की वेबसाईट http://envfor.nic.in पर देखी का सकती है।

> धवदीय हिण्डालको इण्डस्ट्रीज लिमिटेड सामरी खाद ग्रभाग

Annexue-I

प्रिप्ताने कर्ष शुक्त किया गया है। इसमें बार्त को सिवान के लिए संसाहत हा उपलब्ध नहीं है। समाधन और प्रशीन नहीं रहते के करिना अर्जुरीआई के प्रशिक्षणाओं वर्ष भर आहंदीआड सांच्या में आतं में व्हीर बिना कुछ किए पूस कर गर नापस वत जाते थे। इन्हें चीन्टकल की भी आनकारों गुरी दो गई। ऐसे में प्राप्त्रभगावियों को धविष्य अधिर में है। छात्रें का कहना है कि 20 अससी से व्यक्ति परोधा शुरू है। ब्योरी की पहार नहीं हुई है कियु किसी ग्रेंड रेंट कर ब्यारी की परीक्षा के जनाम कर लेते जिल्ले प्राथटकत का थोड़ा भी रान गरी है। उन्होंने नतामा कि प्राप्ताश्यापियों के द्वारा स्वय देख

प्रायमिक परीक्षा में जिसी प्रका गरेशको होतो तो प्रतिश्वाधियो सारापुर्वत पुत्रक स्थाप विकास विकास विकास दसकी अन्तर पर अध्यक्त सर्मा गया है। परिका की है अधित भारतीय स्टा पर निध की जानी है इसलिए परोक्षा की वि परिवर्तन करना संभव गहीं है। अवसर पर प्रव कांग्रेस के प्र fragues musti gold for आलोक सद्देश विकास पिक, र पिकृष, रेक्न सिन्द्र, अस्तुरूष र भेलव मुना, अभिन चीप, प्रदीप क्षेत्र साना एमक्टल मित्रा र काको संख्या में आहरीयाई प्राराजपायाँ वर्षास्था थे।

स्वतंत्रता सेनानियों को श्रद्धाजित देने आज जुटेंगे कार्य का निर्माणका स्थापका निर्माण के निर्माण के स्थापका स्थापका के स्थापका स्थापका स्थापका के स्थापका दिशस पर मुख्य कार्यम् अत्र दशः परिचा कार्यमः एनप्रमुख्या प्रत ज कोशः के अभी प्रदर्भकारियां एवं अन्य महित्य जन से इन्ह कार्यनम व्यक्तिया यो वर्ग अर्थलं जो है।

तरिभूमि अधिवकापुर जिल्ला कारणेलय वे प्रसार माफेटिंग में फार्स पहले के लिए उत्साही, योग्य स्था अनुसंवी हा फेसर भूषक य युवित्यों की शीव अनुबद्धालयां

उनमीतवारों में नियालिकित दोन्यता होना अनिपार्थ है

- 12 वी वा स्थावक उत्तीर्ण होना पाहिएक।
- » आयु ३० वर्ष से अधिक नहीं होनी साहित्य।
- कंपनी द्वारा संवाधित हुवेट में कार्य फर खोग छंपा प्रांचालित फरने हेतु नगर से बाहर भी पा स्वेग
- » इधित निर्णय होये में सवास हो।

: वेलयमागः यो स्थतानुसार वेतन वेय होगाः

कार्य का समय प्रातः रहा २ वर्णे शक फीट्स कर्त सार्थ क से ६ कवी तुपन विमारिया

> मिलके का सन्दर सायं ५ कते. से कार्या अक

> > कायालय प्रमुख

सरगुजा जिला कार्यालय केद्रारपुर, तक पानी टेकी के पास अस्थिकापुर (छ.म.) कीन/97774-220776. F1.98261-19698, 98261-62296, 98930-877

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वया। शायन येवे रिगक्तिम फ्डार वे नाम बले इस आदोलन में भाग केने कुर्यमुण्या, नेवरा, एनटीपीशी, एचटीपीपी, बाल्को, निवारिका सहित समें केंग्रों के लोगों ने भाग लिया थी मंद्रे तक यसे इस आदोलन में अन्य सभी लोग उपस्थित थे।

पुत्री किरण का वेवाद 20 मई १९९७ को तरहतपुर बाना अंतर्गत, ग्रंभ अमोदा निवासी शमनाम्य के पुत्र राजंदधसार पाठण के पुत्र के साम gon था। विवाह के एक साल बाद है किरण को दहें। के लिए प्रताहित किए जाने लगा

छतीसगढ प्रदेश के वर्तमान सांसप एवं पूर्व पुख्यमंत्री अजीत प्रमोद जोगी के सुपुत्र अभित फोगी बर रधानीय पुवा कार्यकर्ताओं ने जन्म दिवस मनारा। परथालगांय के सामुदाधिक प्रवास्थ्य केन्द्र के वार्ड में यह चलार शुता कांग्रेसी कार्यकर्ताओं ने प्रीतपाल चादिया के शीप्रत्य सं फल, विस्कृट, बेंग्र को दितारण किया तथा कांचे सी

क्षात्रकाम पुष्टा

अभीत प्रांती के जन्मविवस के अवसर पर अस्पताल परितर में कत एवं विरिशाट वित्तरण के दावत हरगोविन्द अंग्रवाल मनीज अन्यस्ट, रवि सावव , विशामुद्रीन , सुरेन्द्र चेडवानी, शिव क्यांवल , वेदलन सिदार, अशोज चेहिका एवं अन्य पानीण करवेकली सम्बन्धिक थे।

ंगीता को कटघोरा का प्रभार

अधिकारी चीरिन पश्चिम्न को पदोत्रति मिलने वाली थी। लेकिन वे अभी स्थानासरण के लिए यहरा

लाई निगम के आयुक्त जए लगा रहे जोर

दवाद मही दाल १४ है। प्रदेश शासन दाश जारी आदेश के अनुसार राप्त्रों। ९४ वेच के अधिकारी आईके येशमुख को पाणनारंगांव का 1 0 अपर काले कटर पदस्य किया गया प्रस्थे के है। डीडी सिंह को जशपुर

कलंबर बनाए जाने के बाद से राजन दर्शाय छन्। बालेक्टर का पद विगत २-३ मार से रिक्त था। की श्रेष्टामुख नवा अंतर्थ परियोजना के राज्य लगासक के पद पर पानीण जनालक के पद पर प्रेचायत प्रतिभा विकास विकास ने प्रतिनियुक्ति पर धो। इस पीय २००५ केया के छा प्रतिश्व आईएस अफसर्श को सहन्यक बत्तेक्टर के पद पर पदरण किया गया है। आई एएस अर संगीता को कटकोश एवं पतत कुमार को सारांगढ अन्दिमागीय अधिकारी बनाया गया है

स जिला अध्यक्ष ने दौरा रयाओं की जानकारी ली

से अपनी भावनाओं से अवगत डो ने घट भी माम लखी कि 5, जान क्रेणी शि**सक** एवं केन्द्रीय चेतनमान विद्या जाना । येरानपान मिलने से प्रत्येक का से २००० हपए वक का ोगा। नहनाई मत्त्र की भोषणा क्रिए तथ महंगाई भरते के जनसार होना चाहिए तथा ही राशि केन्द्र की घोषणा के होना पाहिए। जिस तरह से पी. प्रसिद्धी की विद्या दिशाम में अभिन जाती है जसी प्रकार एम. फील में भी अग्रिम वेशन पृद्धि निलनी

र्यक्रम में मुख्य क्षप से विश्रासद्द ाम असाबित्यः भी सुबे, एव ो. यो. सिए, ए. के. जेन, के वर्षा श्वना श्रीवास्तव, रंजना पुर क्लाक में प्रेमचन्द्र सोती, डी. तर की भगवा, स्वानास्थाण राम हुलाम मोहम्मद खन के एत. ठ दुः र, आर, भी, तिहर, भी साह लाक ने दीनानाथ साह, अञ्चयन प्रसाद, नारायम पुत्रह, प्रत्रहयान

दुवे, भोरेलाल टाकुल, शिया एत सिंह, मुलेक्यर सिंह, मेरियारायण सारू, प्रमृत्याल साहू, प्रमनमाय क्षाक रायनक्तू साहू कृष्ण साहू रामपाठ साहू, राजेन्द्र जानवारे, पितृ याम सिह, राज्युनार पेरन्स, गहाल हिंट, पारसपति पेकारा भीपती मानभति भगत कानती प्यापी टोल्मो संडवेद सिंड, क्रीमधी कल्चल्या जायसंबद्धि, क्षीमती सुनिता पाण्डेम, में एन, बादव, भी इसलाम अंसारी, रवाम गान्यण सिंह, उदयपुर लाक में सुखराम यादर हरिशंकर मुखा, भोहेलाल राजवाडे, कतेवहादुर सिंह, प्रयोद कुमार छरवंप, अलोइस टे पो, अमरनाथ महेत, देवकुनार बावन, शंकर पन, जबकीसन, सीमही द्वालिएर टोप्पी, शमलान सिंह, छोटेलाल पुत्रे, सोमानलाय सिंह, सह पर सिंह, राम्यून श्रेप, झीनसी अभयकिशोरी टापी, धनेप्रवर सिंह, युहन राम संधा अधिकाधिक संख्या ने हर बनाक में रिक्षक-शिविकाएं ए रिश्वत भी। विक्कों के प्रस्ताव को उसित कार्यवाही हेतु इसकी सूर्वना हेतु प्रदेश अध्यक्त सुरेश विदास एव उप-प्रान्तास्यक थी. एस जिह को दे वी गई है। मुख्यमंत्री फलीसगढ़ शासन स्कूल शिशा वंकी एवं आदिन काति र त्याण मंत्री की सभी मांगी जो की जायज गांग है स्वीकृत करने हेतु अगुरोध पन्न लिखा गरा है।

खाद नहीं मिलने को लेकर कृषकों ने निकाली रैली

क्षेत्र के किसानों को छाद गही निल कित्त्वत के नित्र्य व्यापारियों से रत है, जिसको लेकर कल परधालमांच के किसान नेपा वेदप्रकाश भिन्ना ने आगीण किसानी

का तकर एक रही आश्वासन मिला एक वो कि कार्न दिन में होगा उपलब्ध िराप पर निकारप्रकर

विस्तार अधिकारी श्री पन्ना से खाद किल्ला के सका में जानकारी मांगी व जनकर नारेब जी की गई। प्रन्ता ने आरपासन दिया कि वे एक-यो दिन में खाद प्रत्यालगांव में स्वपलका कराई जायेती। इस आक्यारण के पश्चात ही रेती में उपस्थित संकडी विक्सान वामस जाते को तैथार हुए।

अधिकारियाँ प्राप्त सारणांड तक उन्ने वामों की बिकी पर अधिकारी अध्य मूर्वे समाजा देख परे हें पूर्वाई

हाथ धर्म प्राचे दामी में ऋगीवने को मजबूर है। हेली में भवन राम कुण्डर, धरणसाय कुजूर, मसराव पन्ना, बुडाहाद सम्बंध हेमराम पटेल. ओलेक दब्ब, तीओ पादव, टिकेस्टर बादव व अन्य किसान मीजूद थे। रती की अनुवाई किसान नेता द्वारा को गई।



हिण्डालको इण्डरटीज लिमिटेड (सामरी खान प्रभाग)

सर्व र आतण को स्थित किया काता है कि प्रण एवं पर्य दरण मेजालयः महे दिख्ये से अनेक पत्र कामीक जे. 11015/353/2007-IA II(M) दिनोक 27.07.2007तवा के - 11015/354/2007-A.II(M) faria 27.07.2007 & and feveress 30 stella लियर इ.क. सामरी तथा कुटान बादसाइट खटानों के अपना विस्तार (०.५० मिलियन दन तथा ०.०६ मिलियन टन चॉक्साइट खपाउन प्रतिवर्ध) हतु प्रयोवन्त्रीय स्वीकृति अनुमोदित होक। प्राप्त हो सुन्धी है। द्यरोत्स स्व कृति पर की प्रतिविधि है से एयी बरा। सेरक्या संदेश का पालम में उपलब्ध है एवं जन एवं प्रयोजाण मंत्रालम की बेहसाईद http://envior.nic.ip. पा भी देखी जा सकती है।

अवर्ग ग विवासको इपाएटिज विभिन्दे चामश्री खान प्रमास

आविकतावाकी 93711EA 200