

SPEED POST

Ref.: HZL/Kayad/ENV/MOEF/2026-27/ 27

May 28, 2026

To,  
The Deputy Director (S) / Scientist -C  
Ministry of Environment, Forest & Climate Change,  
Integrated Regional Office, A-209&218, Aranya Bhawan,  
Jhalana Institutional area Jaipur-302004

**Sub: Six monthly environmental compliance report from October- 2025 to March- 2026.**

Ref: Env clearance vide No. : J-11015/47/2012-IA,II (M) dated 5th Feb, 2018.

Dear Sir / Madam,

With reference to the aforesaid subject and cited references, we wish to inform you that we are hereby submitting the **six-monthly compliance report** for the conditions stipulated in the **Environmental Clearance of Kayad Mine** for the period **October- 2025 to March- 2026**.

A copy of the above compliance report is also being sent via email and has been uploaded on the website.

Thanking you,  
Yours faithfully,

  
**Rajesh Choudhary**  
SBU Director  
Hindustan Zinc Ltd.  
Director- SBU Kayad Mine-305023  
Ajmer, Rajasthan

Cc to:

In-Charge ( Zonal office)  
Central Pollution Control Board,  
Vithal Market, Paryavaran Parisar,  
E-5, Arera Colony, Bhopal – 462 016 (MP)

The Regional officer  
Rajasthan Pollution Control Board Regional Office,  
SPI-II, RIICO Industrial Area, Phase-V, Kishangarh,  
Dist. Ajmer-305801

Member Secretary  
Rajasthan Pollution Control Board  
4 Institutional Area, Jhalana Doorgi  
Jaipur (Raj)-302004



**Hindustan Zinc limited  
Kayad Mine, Ajmer**

**Environment Clearance Compliance Report:**

**Name of the Project: Kayad Lead-Zinc Underground Mine, M/S Hindustan Zinc Limited, Village  
Kayad Dist. Ajmer, Rajasthan**

**Environment Clearance Letter no: J-110115/47/2012-1A (M) dated 5<sup>th</sup> Feb 2018.**

**Period of Compliance Report: April 2025 to September 2025**

S.no	A. Specific Condition	Compliance Status
1.	Environmental Clearance is granted Subject to Under Honorable Supreme Court Judgement Date: 02.08.2017	Noted
2.	Environmental clearance is granted subject to final outcome of honorable supreme court of India, Honorable High Court of Rajasthan and other court of law, if any, as may be applicable to these project.	Noted
3.	This Environmental Clearance is subject to obtaining Requisite NBWL Clearance from the Standing Committee of National Board for Wildlife, if any, Applicable for this Mining Project.	Not Applicable
4.	No Mining activities Will be Allowed in Forest Area, If Any for which the forest clearance is not available.	No forest involved in Mine lease
5.	This Project Shall obtain Consent to Operate from the State Pollution control Board, Rajasthan and effectively implement all the Conditions Stipulated therein.	Consent to operate was granted by Rajasthan State Pollution Control Board Vide: F(Mines)/Ajmer(Ajmer)/303(1)/2017-2018 dated: 06.01.2023 valid till 31.01.2028. (Annexure-IX). All the conditions are being implemented effectively
6.	The Proponent should install online Ambient Air Quality Monitoring System and there should be system for display of digital AAQ data within 03 months at least at three locations as per wind direction. Online provisions of pH and Turbidity meters at discharge points of STP and ETP and also at water storage pond in the mining area may be made; Project Proponent should display the result digitally in front of the main Gate of the mine site.	Online Ambient Air Quality Monitoring System Installed and AAQ data digitally displayed outside gate. pH and Turbidity meters at discharge point of STP. (Annexure-VII) and at a water storage point in mining area are installed and result digitally displayed. (Annexure-XI). No ETP at Kayad Mine.
7.	The Project Proponent has to take care of gullies formed on slopes. Dump mass should be consolidated with proper filling/leveling with the help of dozer/compactors. The report on slope and stability monitoring should be sent to MoE, F & CC and its Regional office every six-month.	Waste generated from Mining operations is being Reused for Backfilling. No waste is accumulated at site.
8.	The reclamation at waste dump sites shall be ecologically sustainable. Scientific reclamation has been followed. The local species may be encouraged and species are so chosen that the slope, bottom of the dumps and top of the dumps are able to sustain these species. The aspect of the dump is also a factor which regulates some climatic parameters and allows only species adapted to that micro climate. This may be recommended to be studied by hiring Expert Ecology Group.	Waste generated from Mining operations is being Reused for Backfilling. No waste is accumulated at site.
9.	There is need for regular monitoring of invertebrates and aquatic life of water bodies including the reservoir located close to the mining lease to establish that fish and other animals including the water is not contaminated with heavy metal. There could be a research on "bio accumulation of heavy metals in invertebrates" to completely establish that there is no impact of mining.	Study get done from M/s NEERI Nagpur and Report submitted.(Annexure-X)
10.	A specialized institution may be hired to carry out ecological survey on the plant species to evaluate their growth in terms of stunted, deformed and seed viability. The sensitive species and indicator species to heavy metal pollution may be screened out and plantation accordingly designed. Similarly, uptake of Zinc, Cadmium and lead etc. by crops and vegetables grown in the crop lands around the mining lease may be studied. Bottom sediment analysis of ponds, wells and Rivers to ascertain the level of accumulation of heavy metal may be done.	Study get done from M/s NEERI Nagpur Report Submitted. (Annexure-X)
11.	The Proponent shall conduct an Occupational health study with respect to the pressure impact on ear drums as person goes underground and implement the recommendations.	Occupational health study with respect to the pressure impact on ear drums as person goes

		underground conducted Inhouse as well as from M/s Sure Safety Report Submitted.
12.	Project Proponent shall carry out vibration studies well before approaching any such habitats or other buildings to evaluate the zone of influence and impact of blasting on the neighborhood. Within 500 meters of such sites vulnerable to blasting vibrations, avoidance of use of explosives and adoption of alternative means of mineral extraction. A provision for monitoring of each blast should be made so that the impact of blasting on nearby habitation and dwelling units could be ascertained. The covenant of lease deed under Rule 31 of MCR 1960 provides that no mining operations shall be carried out within 50 meters of public works such as public roads and buildings or inhabited sites except with the prior emission from the Competent Authority.	Blasting being carried out during daytime only and the vibration study is being done regularly by M/s CIMFR, Dhanbad. No secondary blasting being carried out at site.(Annexure-XX)
13.	Main haulage road in the mine should be provided with permanent water sprinklers and other roads should be regularly wetted with water tankers fitted with sprinklers. The material transfer points should invariably be provided with Bag filters and or dry fogging system. Belt-conveyors should be fully covered to avoid air borne dust Use of effective sprinkler system to suppress fugitive dust on haul roads and other transport roads shall be ensured.	Mine haul road is being wetted through water tankers fitted with sprinklers. (Annexure-XIV) Permanent water sprinkler fitted Belt-conveyor at CRF is being covered to avoid air borne dust Ensured effective sprinkling system to suppress fugitive dust on haul and transport roads.
14.	The monitoring of PM2.5 in the vehicle emission shall be conducted to improve the mine environment and report submitted to the Regional Office of the MoEF& CC.	Monitoring of PM 2.5 is done on regular basis. However we are not able to monitor PM 2.5 vehicular emission due to unavailability of required technologies. Instruments for vehicular emission monitored on regular basis for the parameter mentioned in BS-IV norms and pollution under control(PUC) certificates for all vehicle from authorized center is obtained.
15.	The Project Proponent reported that there are seven Schedule-I species viz. peafowl ( <i>pavo cristatus</i> ), Osprey ( <i>Pandion haliaetus</i> ), Tawny eagle ( <i>Aquila rapax</i> ), Crested honey buzzard ( <i>pernisptilorhynchus</i> ), Shikra [ <i>Accipiter badius</i> ], Leopard ( <i>Pantherapardus</i> ), Indian pangolin ( <i>Manis crassicaudata</i> ) in the study area. The pp shall implement the Conservation Plan and enhance the budget for implementation of Conservation plan for Schedule-I species and also increase the budget for plantation/green development. The Proponent shall implement the Wildlife Conservation plan along with the funds so allocated with consultation of Chief Wild Life Warden of the State Govt. A copy of action plan shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office, Lucknow and the Chief Wild Life Warden of the State Govt.	Conservation plan has been developed for Schedule-I namely Peafowl ( <i>Pavo cristatus</i> ) and has been approved by the additional Principal Chief Conservation of Forest and Chief wildlife warden Jaipur, Rajasthan and implemented the same.  Action plan along with its implementation status report being submitted to RO MoEF & CC and Chief Wild life warden of State Government.
16.	Proponent shall carry out monitoring of lead in the blood samples of the employees and the villagers in the areas surrounding the mine in their schedule of health checkup. The nearby water bodies shall be monitored every six months and report submitted to Regional I office of the MoEFCC to ascertain in impact due to lead contamination.	Lead in the blood samples of the employees carried out during their PME and villagers are monitored. Water samples analysis of nearby water bodies carried out regularly and report submitted.
17.	Implementation of Action plan on the issues raised during the Public Hearing shall be ensured. The project proponent shall complete all the tasks as per the Action plan submitted with budgetary provisions during the Public Hearing.	Being implemented
18.	Implementation of the outcome of study with regard to of blast design parameter for the safety and stability of surface structures and subsequent monitoring of vibration on the surface structures for their long term stability., which was carried out by Central institute of Mining and Fuel Research should be ensured.	The implementation of CIMFR study report is being ensured. <ul style="list-style-type: none"> <li>Regular vibration studies conducted through CIMFR.</li> <li>Peak Particle Velocity within ranging between 1.0 to 15.00 mm/sec .</li> <li>Due care is taken in blast design, explosives use, selection of detonators and delay to ensure safe vibration limit</li> </ul>
19.	Continuous monitoring of radioactive elements, if any, shall be undertaken till entire mine is dewatered and report has to be submitted to MoEF & CC Regional Office. Periodic monitoring of any adverse impact	The report of Radioactive element done, and report already submitted to MOEF & CC and Regional office. No Radioactive element trace

	of Radon and its daughter products on any worker should be included in the Occupational Health Monitoring Programmed.	in analysis. periodic monitoring of any adverse impact of Radon and its daughter products on any worker should be included in the Occupational Health Monitoring Programmed.
	B. Standard Conditions	
1.	A Final Mine Closure plan along with details of Corpus fund shall be submitted to the Ministry of Environment, Forest and Climate Change 5 years in advance of final mine closure for approval.	A final Mine Closure Plan along with details of corpus Fund Shall be Submitted 5 years in Advance.
2.	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment, Forest and Climate Change.	No change in mining activity, Complied
3.	No change in the calendar plan including excavation quantum of mineral and waste should be made.	Being Ensured as per mine plan.
4.	The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of water (surface water and ground water) for the project.	NOC Granted by CGWA, valid till 09.10.2026. vide Reference no. CGWA/NOC/MIN/REN/4/2025/11265 dated: 28.03.2025.(Annexure-XIX)
5.	Mining shall be carried out as per the provisions outlined in mining plan approved by Indian Bureau of Mines (IBM) as well as by abiding to the guidelines of Directorate General Mines Safety (DGMS).	Ensuring the Mining as per the Mine Plan approved by IBM and as per the guideline of DGMS.
6.	The lands which are not owned by Proponent, mining will be carried out only after obtaining the consents from all the concerned land owners as per the provisions of the Mineral Concession Rules, 1960 and MMDR Act, 1957.	Assured to Comply.
7.	Digital processing of the entire lease area using remote sensing technique shall be carried out regularly once in three years for monitoring land use. Pattern and report submitted to Ministry of Environment, Forest and Climate Change its Regional Office.	Digital processing of the entire lease area using remote sensing technique carried out M/s Hydro Geosurvey Consultants Pvt. Ltd and report submitted. (Annexure-XVII)
8.	The critical parameters as per the Notification 2009 such as PM 10, PM 2.5 NOx and Sox etc. in the ambient air within the impact zone, peak particle velocity at 300m distance or within 1 the nearest habitation, whichever is closer shall be monitored periodically. Further, quality of discharged water shall also be monitored [(TDS, DO, pH and Total Suspended Solids-(TSS)]. The monitored data shall be uploaded on the website of the company as well as displayed on a display board at the project site at a suitable location near the main gate of the Company in public domain. The circular No.3-20012/1/2006-IA.II (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance	The critical parameters such as PM10, PM 2.5, NOx, Sox etc. in the ambient air are being monitored within the impact zone, peak particle velocity at Kayad village being monitored periodically. Zero Discharged is being maintained.  PM10, PM 2.5 Nox, Sox etc. monitoring data and peak particle velocity data are being uploaded on website of company as well as the display board on main gate.
9.	Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of Phyllo and PM2.5 such as haul road, loading and unloading point and transfer points. Fugitive dust emissions from all the sources shall be controlled regularly. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed under National Ambient Air Quality Standards (NAAQS) or by the Central Pollution control Board in this regard. Monitoring of Ambient Air Quality to be carried out based on the Notification 2009, as amended from time to time the Central Pollution Control Board.	An effective safeguard measure has been taken and regular water sprinkling on haul road, loading & unloading are being carried out.  Ambient Air Quality parameters maintained and monitored regularly. As per National Ambient Air Quality Monitoring Standards (NAAQMS). And report submitted to Central Pollution Control Board. (Annexure-I)
10.	Regular monitoring of ground water level and quality shall be carried out in and around the mine lease by establishing a network of existing wells and constructing new piezometers during the mining operation. The project proponent shall ensure that no natural water course and/or water resources shall be obstructed due to any mining operations. 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 Ministry of Environment, Forest and Climate Change and its Regional Office, Central	Regular monitoring of ground water level and quality is being carried out in and around the mine lease by establishing a network of existing wells and piezometers. No natural water course / water Resources obstructed due to mining operations. The Water level and water quality. (Annexure-V)

	Ground Water Authority and Regional Director, Central Ground Water Board.	
11.	Regular monitoring of the flow rate of the springs and perennial allays flowing in and around the mine lease shall be carried out and records maintain. The natural water bodies and or streams which are flowing in an around the village, should not be disturbed, The Water Table should be nurtured so as not to go down below the pre-mining period. In case of any water scarcity in the area, the project proponent has to provide water to the villagers for their use. A provision for regular monitoring of water table in open dug wall located in village should be incorporated to ascertain the impact of mining over ground water table.	No springs and perennial allay flowing in and around the mine lease.
12.	Regular monitoring of water quality upstream and downstream of water bodies shall be carried out and record of monitoring data should be maintained and submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office, Central Ground Water Authority, Regional Director, Central Ground Water Board, State pollution Control Board and Central Pollution Control Board.	Regular monitoring of water quality upstream and downstream of water bodies carried out and analysis report Enclosed. (Annexure-IV)
13.	Transportation of the minerals by road passing through the village shall not be allowed. A, bypass, road should be constructed (say, leaving a gap of at least 200 meters) for the purpose of transportation of the minerals so that the impact of sound, dust and accidents could be mitigated. The project proponent shall bear the cost towards the widening and strengthening of existing public road network in case the same is proposed to be used for the project. No road movement should be allowed on existing village road network without appropriately increasing the carrying capacity of such roads.	Transportation of the Lead-Zinc ore is being done by roads which is passing through Highways.
14.	The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day light/night hours.	Ensured the biological clock of the villagers by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limit for day and night. (Annexure-II)
15.	Main haulage road in the mine should be provided with permanent water sprinklers and other road should be regularly wetted with water tankers fitted with sprinklers. The material transfer points should invariably be provided with bag filters and Dry fogging system. In case of Belt conveyors facilities the system should be fully covered to avoid air borne dust, use of effective sprinkler system to suppress fugitive dust on haul roads and other transport roads shall be ensured.	Permanent water sprinkler at near portal haul roads and roads is being wetted through water tankers fitted with sprinklers. Effective sprinkling system is placed to suppress fugitive dust on haul roads. Belt-Conveyor at (CRF) is fully covered to avoid air borne dust.(Annexure-XIV)
16.	Sufficient number of Gullies to be provided for better management of water. Regular Monitoring of pH shall be included in the monitoring plan and report shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional office on six monthly bases.	Mine water monitored regularly and report attached.(Annexure-III) Regular pH monitoring report enclosed. (Annexure-III (A))
17.	There shall be planning, developing, and implementing facility of rainwater harvesting measures on long term basis and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board.	Rainwater harvesting is being done and water recharge structure is made in Consultation with CGWA (Annexure-XV)
18.	The Project Proponent has to take care of gullies formed on slopes. Dump mass should be consolidated with proper filling/leveling with the help of Dozer/compactors.	No dump mass, all the waste is reused for backfilling.
19.	The reclamation at waste dump sites shall be ecologically sustainable. Scientific reclamation shall be followed. The local species may be encouraged and species are so chosen that the slope, bottom of the dumps and top of the dumps are able to sustain these species. The aspect of the dump is also a factor which regulates some climatic parameters and allows only species adapted to the micro climate.	No waste dumps, all the waste is used for buckfilling in underground.
20.	The top soil, if any, shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation. The over burden (OB) generated during	The top soil stored at earmark location if 9000cum soil in 645 sq.m and developed a

	<p>the mining operations shall be stacked at earmarked dump site(s) only and it should not be kept active for a long period of time. The maximum height of the dumps shall not exceed 8m and width 20 m and overall slope of the dumps shall be maintained to 45°. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface runoff. In critical areas, use of geo textiles shall be undertaken for stabilization of the dump, The entire excavated area shall be backfilled and afforested. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional office on six monthly Basis.</p>	<p>beautiful garden on it, All the waste utilized in the mine void refilling. No such OB dump.</p>
21.	<p>Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, mineral and OB dumps to prevent run off of water and flow of sediments directly into the river and other water bodies. The water so collected should be utilized for watering the mine area, roads, Green belt development etc. The drains shall be regularly desilted Particularly after monsoon and maintained properly. The drains, settling tanks and check dams of appropriate size, gradient and length shall be constructed both around the mine pit and over burden dumps to prevent run off of water and flow of sediments directly into the river and other Water bodies and sump capacity should 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 should also provide adequate retention period to allow proper settling of silt Material. Sedimentation pits shall be constructed at the corners of the garland drains and desilted at regular intervals.</p>	<p>Catch drains and siltation ponds constructed to collect and prevent run off water and flow of sediments directly into the river and other water bodies. Water so collected used for dust suppression in mine area haul roads, green belt development, recharge etc. The drain and settling pond are being regularly de-silted and maintained properly.</p>
22.	<p>Plantation shall be raised in a 7.5m wide green belt in the safety zone around the mining lease, backfilled and reclaimed area, around water body, along the roads etc. by planting the native species in consultation with the local DFO/Agriculture Department and as per CPCB Guidelines. The density of the trees should be around 2500 plants per ha. Greenbelt shall be developed all along the mine lease area in a phased manner and shall be completed within first five years.</p>	<p>Plantation has been raised around boundary of acquired area along the road etc. and included the native species. More than 33% Greenbelt has been developed in mine area.(Annexure-XVI)</p>
23.	<p>Project Proponent shall follow the mitigation measures provided in Office Memorandum No. 2-11013/5712014-JA.II (M), dated 29th October, 2014, titled "impact of mining activities on Habitations-issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area", if any, applicable to the project.</p>	<p>Being Assured</p>
24.	<p>The Project Proponent shall make necessary alternative arrangements, where required, in consultation with the State Government to provide alternate areas for livestock grazing, if any. In this context, Project Proponent should implement the directions of the Hon'ble Supreme Court with regard to acquiring grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded against felling and plantation of such trees should be promoted.</p>	<p>Ensured</p>
25.	<p>The project proponent shall take precautionary alternative during mining operation for conservation and protection of endangered fauna, if any, spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and Wildlife Department. A copy of action plan shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office.</p>	<p>A nursery has been developed within mine area for rare plant's species and other medicinal plants. Same being included in yearly plantation program to improve their existence.</p>
26.	<p>As per the Company Act, the CSR cost should be 2 % of average net profit of last three years. Hence CSR expenses should be as per the Company Act/Rule for the Socio Economic Development of the neighborhood Habitats which could be planned and executed by the Project Proponent more systematically based on the 'Need based door to door survey' by established Social Institutes/Workers. The report shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office on six monthly bases.</p>	<p>The Baseline needs assessment survey done. CSR activities in nearby communities done on regular basis . (Annexure-XXI)</p>

27.	Provision shall be made for the housing of construction labor within the site with all necessary infrastructure and facilities such as Mel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed After the completion of the project.	The facilities are provided like Canteen, Toilets, STP, (Annexure-XII) and safe drinking water and permanent Doctor for their health care and crèche etc.
28.	Measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs / muffs.	Regular monitoring of the noise , work environment is being carried out and workers engaged operations of HEMM are being ensured with ear muffs.
29.	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 should be installed before discharge of workshop effluents.	Automatic Oil water Separator have been installed at vehicle washing area and clean water reuse for vehicle washing. Mine water reused for drilling and dust suppression, CRF Plant. Zero discharge Maintained.(Annexure-XIII)
30.	Person working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.	Job specific PPE are mandatory for all workers and regular training being given on safety and health aspect.
31.	A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.	A separate environmental management department is in place under control of SBU Director.
32.	The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry and its Regional Office.	The funds earmarked for environmental protection measure and kept in separate account. The expenditure from Oct-25 to Mar-26 has been incurred (Annexure-VIII)
33.	The project authorities should inform to the Regional Office regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	No additional land is required for proposed expansion.
34.	The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment, Forest and Climate Change, its Regional Office, Central Pollution Control Board and State Pollution Control Board.	Being Complied
35.	The Regional Office of this Ministry 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.	The Project will extend full cooperation to the officer (s) of the regional office by furnishing the requisite data/ information/ monitoring reports.
36.	A copy of clearance letter will be marked to concerned Panchayat / local NGO, if any, from whom suggestion / representation has been received while processing them proposal.	Complied.
37.	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.	Complied.
38.	The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of the Ministry of Environment, Forest and Climate Change at <a href="http://www.environmentclearance.nic.in">www.environmentclearance.nic.in</a> and a copy of the same should be forwarded to the Regional Office.	Complied.
14.	The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.	Assured to comply.
15.	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the Provisions of the Environment (Protection) Act, 1986.	Assured to comply.
16.	The above conditions will 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	Assured to comply. Environment statement submitted to MoEF & CC Dated: 20/09/2025. (Annexure-XVIII)

	(Protection) Act, 1985 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/ High Court of Rajasthan and any other Court of Law relating to the subject matter	
17.	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Assured to comply.

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# HINDUSTAN ZINC

## Environmental Policy

### Purpose:

Hindustan Zinc Limited is committed to achieving excellence in environmental management. Our goal is to minimise environmental impacts of our business across the entire lifecycle by implementing pollution-prevention and natural resource conservation actions either on site or off site.

This policy is forward looking and sets a vision for businesses across the Hindustan Zinc Limited.

### Scope:

This policy is applicable to all Hindustan Zinc Limited business units, including subsidiaries, joint ventures, and acquisitions, managed sites, licensees, outsourcing partners, corporate offices, and research facilities. This policy is also applicable to all Hindustan Zinc Limited employees, contractor employees, business partners, suppliers, and others with whom Hindustan Zinc does business.

In addition, this policy is applicable throughout the operational lifecycle of the projects and mines, covering stages from exploration and planning to evaluation, operation, and closure. Furthermore, it extends to activities in our upstream and downstream value chain, limited to distribution, logistics, and sale of products and services to the customer.

### Objectives of the Environmental Policy:

#### Hindustan Zinc will strive to:

- ◆ Comply with applicable national, regional, and local environmental regulations and statutory obligations. In the absence (or lack) of appropriate legislation, industry best practices and applicable international standards will be used.
- ◆ Develop, implement, and improve environmental management systems, consistent with world-class standards.
- ◆ Set targets and objectives to avoid, reduce or mitigate Environmental impacts on people and planet.
- ◆ Consistently assess our environmental risks, manage our impacts, take appropriate mitigation and adaptation measures, and communicate our environmental strategy to our stakeholders.
- ◆ Incorporate appropriate environmental criteria for all business decisions including the planning, operationalization, and closure of the projects.
- ◆ Conduct regular environmental review and due diligence of the projects (including for mergers & acquisitions) to identify, prioritize, assess, and take effective actions for mitigating the potential environmental risks.
- ◆ Drive continuous environmental performance improvement by implementing appropriate available practices and technology.
- ◆ Conserve natural resources by adopting environment-friendly and energy-efficient technologies through process improvements.
- ◆ Apply mitigation hierarchy (avoid, reduce, reuse, recycle, disposal) to environmental impacts and adopt the principles of circular economy.
- ◆ Manage impacts related to energy, carbon emissions, waste, nature, air emissions, land-use & biodiversity, and water.
- ◆ Raise awareness of internal and external stakeholders including business partners, suppliers, and other stakeholders on adoption of practices in alignment with our policies, thereby fostering a collective commitment to managing environmental impacts.
- ◆ Provide appropriate training to all employees and emphasise the importance of minimising risks to environment, while also understanding the impacts of their work activities on the environment.
- ◆ Engage with relevant stakeholders in building capacity and capability to identify and proactively manage environmental related issues.
- ◆ Communicate with all our stakeholders on the progress and performance of Environment management.
- ◆ Review the performance against the policy on a periodic basis to ensure management of environmental impacts as per our objectives including the sharing of good practices throughout the organization and stakeholders.

### Responsibility & Review:

This policy is part of our Sustainability Framework, and each Hindustan Zinc Limited business unit shall implement this policy. Our CEO will be accountable for controlling and setting the policy, and the Executive Committee are responsible for the full implementation of the policy and associated standards. The Board ESG committee will review this policy annually and recommend appropriate revisions to the Board as may deem necessary.

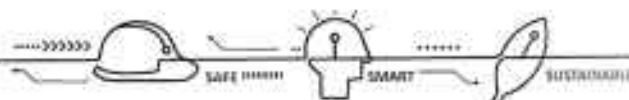
*Related additional policies: Energy & Climate Change Policy, Biodiversity Policy, Water Policy, Tailings Management Policy.*

Date: 05<sup>th</sup> June, 2025

Arun Misra

**Arun Misra**

CEO & Whole Time Director, HZL





## **Mechanism for addressing Environmental Issues**

HZL has a Health, Safety and Environment Policy, given below, Signed by its CEO and forms the guidelines for the entire organization. A well laid mechanism is implemented uniformly across all units of HZL for the implementation of the policy.

All operating units of Hindustan Zinc Limited are certified for ISO-14001 Environmental Management System (EMS). The Management Representative (MR) of the certification system is an experienced environmental officer with due authority to implement and drive a responsible EMS. The MR is duly supported by a committee constituting the operations and maintenance officers of the unit. The System has a well laid documented procedure for identification of all environmental aspect, impacts and implementation of suitable mitigation measure.

The company has three level monitoring mechanism for addressing environmental concerns starting at unit level, HZL corporate level and Vedanta group company level. Depending on the scale and nature of the issue, the concern is escalated to different level right up to Board of the company and also the shareholders of the company in the general body meeting.

The compliances to Environment Clearance and all environmental licenses are reviewed and monitored regularly and reports submitted to the respective regulatory authorities at every unit, by a dedicated environmental professional, who reports directly to the unit head. The compliance is periodically reviewed and audited by corporate Environment department, which reports to top management of the company. A corporate Sustainability committee, chaired by the CEO of the company, oversees all the sustainability issues including Environment, Safety and Health And also reviewing any policy matters.

Any non-compliance/show cause/ notices/complaints received from regulatory authority or any stakeholder is addresses jointly by the unit and corporate environment department. Such issues are also reported and the actions taken are reviewed by the top management every month. Further, all show cause, complaint letters and notices from any stakeholders, along with the action taken report is submitted to the Board Of Directors of the company every quarterly. All major concerns are reported to the stakeholders through the annual general body meetings of the company.



HINDUSTAN ZINC LIMITED  
KAYAD MINES

Ambient Air Monitoring (Oct 25-Mar 26)

Station-1

Month/year	Near Job Site										Near AHQ									
	SO <sub>2</sub>	PM 10	PM 2.5	CO	NO <sub>x</sub>	CH <sub>4</sub>	SO <sub>2</sub>	PM 10	PM 2.5	CO	NO <sub>x</sub>	CH <sub>4</sub>	SO <sub>2</sub>	PM 10	PM 2.5	CO	NO <sub>x</sub>	CH <sub>4</sub>		
Oct-25	143.47	60.08	21.51	6.76	34.61	540.88	343.81	75.42	28.42	8.88	14.59	260.00	330.28	68.83	30.88	8.63	14.83	192.28		
Nov-25	133.39	33.26	33.98	6.85	34.81	303.00	122.29	61.76	28.45	6.88	15.16	303.82	335.33	75.27	32.00	8.88	14.88	188.98		
Dec-25	128.88	83.86	33.88	6.82	34.81	303.00	132.45	73.87	35.19	6.73	14.83	303.88	341.48	78.47	32.88	7.73	14.73	183.93		
Jan-26	128.78	69.88	31.53	6.79	34.83	303.00	192.84	68.81	34.88	6.67	16.7	303.00	349.88	76.75	32.88	6.74	14.83	193.88		
Feb-26	124.72	64.2	33.88	6.88	34.23	330.00	342.93	78.23	36.19	7.88	15.41	303.88	338.88	73.18	34.48	6.48	14.78	188.88		
Mar-26	128.28	83.81	33.88	6.81	34.76	330.00	348.81	77.17	36.31	6.78	16.8	303.88	344.71	78.83	33.87	6.88	14.78	188.88		
Apr-26	133.8	83.88	33.17	6.73	34.86	303.00	193.1	68.5	34.88	6.1	16.17	303.88	342.2	83.28	32.88	6.88	15.17	188.88		
May-26	138.84	88.88	33.13	6.83	34.72	333.88	338.88	78.82	36.41	6.82	16.86	303.88	338.23	83.28	32.88	6.88	15.17	188.88		
Jun-26	143.44	88.87	32.88	6.27	34.61	338.88	348.28	75.87	34.84	6.55	15.7	338.88	338.88	82.83	38.83	6.55	14.88	188.88		
Jul-26	148.84	88.88	33.88	6.24	34.81	308.88	348.18	84.88	34.88	6.34	16.87	308.88	344.23	88.13	38.81	6.34	14.23	178.88		
Aug-26	158.44	88.28	31.23	6.86	34.82	303.88	332.28	82.88	34.83	6.67	14.17	303.88	333.28	78.88	32.88	6.67	14.57	188.88		
Sep-26	158.84	88.28	30.17	6.28	34.77	308.28	338.28	82.88	34.28	6.28	14.86	308.28	328.14	74.26	28.77	6.28	15.13	178.88		

Month/year	Kapat										Lubag										Sapaha									
	SO <sub>2</sub>	PM 10	PM 2.5	CO	NO <sub>x</sub>	CH <sub>4</sub>	SO <sub>2</sub>	PM 10	PM 2.5	CO	NO <sub>x</sub>	CH <sub>4</sub>	SO <sub>2</sub>	PM 10	PM 2.5	CO	NO <sub>x</sub>	CH <sub>4</sub>	SO <sub>2</sub>	PM 10	PM 2.5	CO	NO <sub>x</sub>	CH <sub>4</sub>						
Oct-25	128.44	74.88	27.44	6.83	33.88	318.88	128.84	68.83	28.38	6.83	14.81	318.88	114.28	71.88	28.88	6.88	13.44	300.00												
Nov-25	131.18	70.82	31.88	6.88	33.88	292.88	188.28	68.28	28.71	6.88	13.88	308.88	128.87	77.28	27.88	6.88	13.23	288.88												
Dec-25	142.28	81.88	28.88	6.88	33.12	318.88	158.81	68.87	28.88	6.81	14.88	292.88	137.78	83.17	25.82	6.88	13.15	288.88												
Jan-26	123.81	67.11	25.42	6.83	33.48	338.88	138.81	68.28	28.14	6.82	14.28	298.88	128.28	83.18	27.48	6.88	13.88	288.88												
Feb-26	128.7	68.28	33.81	6.88	33.23	242.88	188.81	68.88	28.82	6.88	13.47	310.88	182.88	34.22	28.58	6.88	13.8	288.88												
Mar-26	148.27	83.88	27.28	6.83	33.87	318.88	148.81	78.88	34.28	6.8	15.23	308.88	132.83	83.28	26.81	6.88	13.48	288.88												
Apr-26	153.7	77.61	28.61	6.8	33.91	308.88	138.88	72.27	30.88	6.8	15.85	288.88	138.53	75.27	26.88	6.88	14.15	288.88												
May-26	172.28	88.28	28.28	6.8	33.23	318.88	222.8	68.2	28.22	6.8	13.88	288.88	198.21	82.28	28.78	6.82	13.17	288.88												
Jun-26	128.81	68.83	33.81	6.8	33.1	318.88	124.28	72.28	28.81	6.8	14.88	298.88	128.88	88.88	27.71	6.82	13.84	288.88												
Jul-26	164.84	83.12	33.81	6.84	34.22	338.88	128.88	73.23	28.23	6.8	13.28	308.88	112.78	88.27	28.22	6.88	13.88	288.88												
Aug-26	128.27	73.11	28.68	6.8	34.88	318.88	128.28	73.41	28.18	6.8	13.38	278.88	128.28	88.2	26.42	6.88	13.88	288.88												
Sep-26	128.87	68.82	27.81	6.8	33.8	308.88	128.88	73.17	28.18	6.8	13.22	288.88	118.5	88.42	26.88	6.88	13.88	288.88												

*[Handwritten signature]*





# TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)



Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

RSPCB

ISO 9001:2015,

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ISO 45001:2018 (OH&S)

JDA/UDH

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	25400001842	Date :	25-10-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	06-10-2025 15:54 to 07-10-2025 15:54
Point of Collection :	Near Sub Station	Date of Receipt :	10-10-2025
Date of Test/Analysis :	10-10-2025 to 24-10-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	340	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.15	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.61	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(<20.0)	IS 5182 (Part-9) :1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	149.47	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	31.51	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.78	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	80.4	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	3.3	IS 5182 Part-26 :2020	20.00

### Notes :-

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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Puran Maheshwari  
Senior Analyst

Rajesh Maheshwari  
Authorized Signatory  
(Report No: 25400001842 )



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Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	400001842	Date :	25-10-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	06-10-2025 15:54 to 07-10-2025 15:54
Point of Collection :	Near Sub Station	Date of Receipt :	10-10-2025
Date of Test/Analysis :	10-10-2025 to 24-10-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram Jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m <sup>3</sup> ]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
13	Benzo-alfa- Pyrene [ng/m <sup>3</sup> ]	BDL(<1.0)	CPCB Guidelines	1.00

**Notes -**

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*Purush*  
**Purush Mehta**  
Senior Analyst

**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: 400001842)



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Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	25400001843	Date :	25-10-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	06-10-2025 15:56 to 07-10-2025 15:56
Point of Collection :	Near CRF	Date of Receipt :	10-10-2025
Date of Test/Analysis :	10-10-2025 to 24-10-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m <sup>3</sup> ]	360	TTH/AAQM/08	4000
3	Lead [microgram/m <sup>3</sup> ]	0.15	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	14.52	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part-9) : 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	143.61	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	36.02	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m <sup>3</sup> ]	6.86	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	75.43	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m <sup>3</sup> ]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m <sup>3</sup> ]	2.7	IS 5182 Part-26 :2020	20.00

### Notes :-

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Senior Analyst

**Puran Mai Yogi**

Authorized Signatory

(Report No: 25400001843 )

**Rajesh Maheshwari**



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Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	400001843	Date :	25-10-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	06-10-2025 15:56 to 07-10-2025 15:56
Point of Collection :	Near CRF	Date of Receipt :	10-10-2025
Date of Test/Analysis :	10-10-2025 to 24-10-2025	Sampling Plan :	IS 5182:2000(Part 14)RA-2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m <sup>3</sup> ]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
13	Benzo-alfa- Pyrene [ng/m <sup>3</sup> ]	BDL(<1.0)	CPCB Guidelines	1.00

Notes :-

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*Puran Meiyogi*

Senior Analyst  
**Puran Meiyogi**

*Rajesh Maheshwari*

Authorized Signatory  
(Report No: 400001843)

**Rajesh Maheshwari**



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Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	25400001844	Date :	25-10-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	06-10-2025 15:58 to 07-10-2025 15:58
Point of Collection :	Near ANFO Station	Date of Receipt :	10-10-2025
Date of Test/Analysis :	10-10-2025 to 24-10-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m <sup>3</sup> ]	320	TTH/AAQM/08	4000
3	Lead [microgram/m <sup>3</sup> ]	Less than 0.1	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	14.03	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part-9) : 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	136.28	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	34.09	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m <sup>3</sup> ]	6.63	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	69.82	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m <sup>3</sup> ]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m <sup>3</sup> ]	2.9	IS 5182 Part-26 :2020	20.00

### Notes :-

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Senior Analyst  
**Puran Mei Yogi**

Authorized Signatory  
(Report No: 25400001844 )

**Rajesh Maheshwari**



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## TEST REPORT

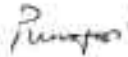
Report No./ULR No. :	400001844	Date :	25-10-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	06-10-2025 15:58 to 07-10-2025 15:58
Point of Collection :	Near ANFO Station	Date of Receipt :	10-10-2025
Date of Test/Analysis :	10-10-2025 to 24-10-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram Jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m <sup>3</sup> ]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
13	Benzo-alfa- Pyrene [ng/m <sup>3</sup> ]	BDL(<1.0)	CPCB Guidelines	1.00

### Notes -

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Senior Analyst  
Purnan Maheshwari

  
Authorized Signatory  
(Report No: 400001844 )  
Rajesh Maheshwari



# TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	25400001845	Date :	25-10-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	05-10-2025 16:00 to 06-10-2025 16:00
Point of Collection :	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	10-10-2025
Date of Test/Analysis :	10-10-2025 to 25-10-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m <sup>3</sup> ]	280	TTH/AAQM/08	4000
3	Lead [microgram/m <sup>3</sup> ]	0.17	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	13.33	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part-9) :1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	105.94	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	26.38	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m <sup>3</sup> ]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	68.93	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m <sup>3</sup> ]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m <sup>3</sup> ]	2.9	IS 5182 Part-26 :2020	20.00

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Senior Analyst  
**Puran Mai Yogi**

Authorized Signatory  
(Report No: 25400001845 )

**Rajesh Maheshwari**



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JDA/UDH

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	400001845	Date :	25-10-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	05-10-2025 16:00 to 06-10-2025 16:00
Point of Collection :	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	10-10-2025
Date of Test/Analysis :	10-10-2025 to 25-10-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m <sup>3</sup> ]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
13	Benzo-alfa- Pyrene [ng/m <sup>3</sup> ]	BDL(<1.0)	CPCB Guidelines	1.00

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*Purani*  
Senior Analyst  
**Puran Mal Yogi**

*Rajesh*  
Authorized Signatory  
(Report No: 400001845 )  
**Rajesh Maheshwari**



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Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	25400001846	Date :	25-10-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	05-10-2025 16:02 to 06-10-2025 16:02
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	10-10-2025
Date of Test/Analysis :	10-10-2025 to 25-10-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	290	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.15	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	13.44	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(<20.0)	IS 5182 (Part-9) :1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	114.36	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	28.05	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	71.08	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	3.3	IS 5182 Part-26 :2020	20.00

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Senior Analyst  
**Puran Mai Yogi**

Authorized Signatory  
(Report No: 25400001846 )

**Rajesh Maheshwari**



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	400001846	Date :	25-10-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	05-10-2025 16:02 to 06-10-2025 16:02
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	10-10-2025
Date of Test/Analysis :	10-10-2025 to 25-10-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m <sup>3</sup> ]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
13	Benzo-alfa- Pyrene [ng/m <sup>3</sup> ]	BDL(<1.0)	CPCB Guidelines	1.00

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*Puran*  
Senior Analyst.  
**Puran Mal Yogi**

*Rajesh*  
Authorized Signatory  
(Report No: 400001846 )  
**Rajesh Maheshwari**



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	25400001847	Date :	25-10-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	05-10-2025 16:06 to 06-10-2025 16:06
Point of Collection :	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Receipt :	10-10-2025
Date of Test/Analysis :	10-10-2025 to 25-10-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram Jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m <sup>3</sup> ]	310	TTH/AAQM/08	4000
3	Lead [microgram/m <sup>3</sup> ]	0.11	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	13.04	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part-9) :1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	126.44	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	27.44	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m <sup>3</sup> ]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]	74.99	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m <sup>3</sup> ]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m <sup>3</sup> ]	3.8	IS 5182 Part-26 :2020	20.00

### Notes :-

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Senior Analyst  
Puran Mah Yogi

Authorized Signatory  
(Report No. 25400001847 )  
Rajesh Maheshwari



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	400001847	Date :	25-10-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	05-10-2025 16:06 to 06-10-2025 16:06
Point of Collection :	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Receipt :	10-10-2025
Date of Test/Analysis :	10-10-2025 to 25-10-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m3]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
13	Benzo-alfa- Pyrene [ng/m3]	BDL(<1.0)	CPCB Guidelines	1.00

Notes ->

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Senior Analyst  
**Puran Meel Yogi**

Authorized Signatory  
(Report No: 400001847)  
**Rajesh Maheshwari**



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JDA/UDH

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C-Scheme, Jaipur - 302001, Rajasthan  
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Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	25400001888	Date :	25-10-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	16-10-2025 12:03 to 17-10-2025 12:03
Point of Collection :	Near Sub Station	Date of Receipt :	18-10-2025
Date of Test/Analysis :	18-10-2025 to 25-10-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	360	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.13	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.01	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(<20.0)	IS 5182 (Part-9) :1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	135.59	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	32.9	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.86	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	72.08	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	2.4	IS 5182 Part-26 :2020	20.00

### Notes :-

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*Puran Maheshwari*  
Senior Analyst

*Rajesh Maheshwari*  
(Report No: 25400001888)



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bulhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	400001888	Date :	25-10-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	16-10-2025 12:03 to 17-10-2025 12:03
Point of Collection :	Near Sub Station	Date of Receipt :	18-10-2025
Date of Test/Analysis :	18-10-2025 to 25-10-2025	Sampling Plan :	IS 5182-2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m <sup>3</sup> ]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
13	Benzo-alfa- Pyrene [ng/m <sup>3</sup> ]	BDL(<1.0)	CPCB Guidelines	1.00

**Notes :-**

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*Puran Mehta*  
Senior Analyst

*Rajesh Maheshwari*  
Authorized Signatory  
(Report No: 400001888 )



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JDA/UDH

Office : E-65, Chitranjan Marg,  
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Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	25400001889	Date :	25-10-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	16-10-2025 12:05 to 17-10-2025 12:05
Point of Collection :	Near CRF	Date of Receipt :	18-10-2025
Date of Test/Analysis :	18-10-2025 to 25-10-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	380	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.13	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	15.19	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(<20.0)	IS 5182 (Part-9) : 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	122.22	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	28.45	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.08	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	61.75	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	4.9	IS 5182 Part-26 :2020	20.00

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**Puran Majhi**  
Senior Analyst

  
**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: 25400001889)



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(Unit of Team Institute of Science & Technology Pvt. Ltd.)

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RSPCB

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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	400001889	Date :	25-10-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	16-10-2025 12:05 to 17-10-2025 12:05
Point of Collection :	Near CRF	Date of Receipt :	18-10-2025
Date of Test/Analysis :	18-10-2025 to 25-10-2025	Sampling Plan :	IS 5182-2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m3]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
13	Benzo-alfa- Pyrene [ng/m3]	BDL(<1.0)	CPCB Guidelines	1.00

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**Purnan Mai Yogi**  
Senior Analyst

  
**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: 400001889)



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Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
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Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
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Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No.:	25400001890	Date :	25-10-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	16-10-2025 12:07 to 17-10-2025 12:07
Point of Collection :	Near ANFO Station	Date of Receipt :	18-10-2025
Date of Test/Analysis :	18-10-2025 to 25-10-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m <sup>3</sup> ]	340	TTH/AAQM/08	4000
3	Lead [microgram/m <sup>3</sup> ]	0.1	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	14.66	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part-9) : 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	134.39	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	34.09	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m <sup>3</sup> ]	6.8	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	71.27	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m <sup>3</sup> ]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m <sup>3</sup> ]	3.7	IS 5182 Part-26 :2020	20.00

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Senior Analyst

Authorized Signatory  
(Report No: 25400001890 )



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Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	400001890	Date :	25-10-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	16-10-2025 12:07 to 17-10-2025 12:07
Point of Collection :	Near ANFO Station	Date of Receipt :	18-10-2025
Date of Test/Analysis :	18-10-2025 to 25-10-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m <sup>3</sup> ]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
13	Benzo-alfa- Pyrene [ng/m <sup>3</sup> ]	BDL(<1.0)	CPCB Guidelines	1.00

Notes ->

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Purnan Malhotra  
Senior Analyst

  
Rajesh Maheshwari  
(Report No: 400001890)



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Phone : +91 6377210064, 9414077379,  
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Email : team.bdhead@gmail.com

Laboratory : G1-584, RHCO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No.:	25400001891	Date :	25-10-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	16-10-2025 12:08 to 17-10-2025 12:08
Point of Collection :	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	18-10-2025
Date of Test/Analysis :	18-10-2025 to 25-10-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	260	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.11	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	13.67	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(<20.0)	IS 5182 (Part-9) :1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	132.25	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	28.71	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	65.23	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	3.4	IS 5182 Part-26 :2020	20.00

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Purnima Yogi  
Senior Analyst

Rakesh Sharma  
Authorized Signatory  
(Report No. 25400001891)



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Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	400001891	Date :	25-10-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	16-10-2025 12:08 to 17-10-2025 12:08
Point of Collection :	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	18-10-2025
Date of Test/Analysis :	18-10-2025 to 25-10-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m3]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
13	Benzo-alfa- Pyrene [ng/m3]	BDL(<1.0)	CPCB Guidelines	1.00

**Notes >**

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*Puran Mehta*  
**Puran Mehta Yogi**  
Senior Analyst

*Rakesh Maheshwari*  
**Rakesh Maheshwari**  
(Report No: 400001891)



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Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	25400001892	Date :	25-10-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	16-10-2025 12:09 to 17-10-2025 12:09
Point of Collection :	Gagwana Village (26°31'44.4"N, 74°43'20.1"E)	Date of Receipt :	18-10-2025
Date of Test/Analysis :	18-10-2025 to 25-10-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	290	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.1	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	13.19	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(<20.0)	IS 5182 (Part-9) : 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	128.07	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	27.6	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	77.15	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	4.6	IS 5182 Part-26 :2020	20.00

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Puran Kishor Yogi

Rajesh Maheshwari  
(Report No: 25400001892)



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JDA/UDH

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C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	400001892	Date :	25-10-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	16-10-2025 12:09 to 17-10-2025 12:09
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	18-10-2025
Date of Test/Analysis :	18-10-2025 to 25-10-2025	Sampling Plan :	IS 5182:2000(Part 14):RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m <sup>3</sup> ]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
13	Benzo-alfa- Pyrene [ng/m <sup>3</sup> ]	BDL(<1.0)	CPCB Guidelines	1.00

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**Puran Mehta**  
Senior Analyst

**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: 400001892 )



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Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	25400001893	Date :	25-10-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	16-10-2025 12:10 to 17-10-2025 12:11
Point of Collection :	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Receipt :	18-10-2025
Date of Test/Analysis :	18-10-2025 to 25-10-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	280	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.17	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	13.55	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(<20.0)	IS 5182 (Part-9) :1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	131.14	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	32.36	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	70.51	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	2.8	IS 5182 Part-26 :2020	20.00

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**Puran Mal Yogi**  
Senior Analyst

**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: 25400001893 )



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## TEST REPORT

Report No./ULR No. :	400001893	Date :	25-10-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	16-10-2025 12:10 to 17-10-2025 12:11
Point of Collection :	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Receipt :	18-10-2025
Date of Test/Analysis :	18-10-2025 to 25-10-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m3]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
13	Benzo-alfa- Pyrene [ng/m3]	BDL(<1.0)	CPCB Guidelines	1.00

**Notes :-**

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*Prakash Sharma*  
Prakash Sharma  
Yogi

*Rajesh Maheshwari*  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: 400001893 )



# TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	25400002047	Date :	04-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	24-11-2025 11:57 to 25-11-2025 11:57
Point of Collection :	Near Sub Station	Date of Receipt :	27-11-2025
Date of Test/Analysis :	27-11-2025 to 04-12-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m <sup>3</sup> ]	360	TTH/AAQM/08	4000
3	Lead [microgram/m <sup>3</sup> ]	0.13	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	14.64	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part-9):1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	126.78	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	31.73	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m <sup>3</sup> ]	6.79	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	65.55	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m <sup>3</sup> ]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m <sup>3</sup> ]	2	IS 5182 Part-26 :2020	20.00

### Notes -

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Puran Mai Yogi  
Senior Analyst

Rajesh Maheshwari  
Authorized Signatory  
(Report No: 25400002047)



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JDA/UDH

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C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	400002047	Date :	04-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	24-11-2025 11:57 to 25-11-2025 11:57
Point of Collection :	Near Sub Station	Date of Receipt :	27-11-2025
Date of Test/Analysis :	27-11-2025 to 04-12-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m3]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
13	Benzo (a) Pyrene [ng/m3]	BDL(<1.0)	CPCB Guidelines	1.00

**Notes :-**

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**Puran Mai Yogi**  
Senior Analyst

  
**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: 400002047 )



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C-Scheme, Jaipur - 302001, Rajasthan  
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Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	25400002048	Date :	04-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	24-11-2025 11:58 to 25-11-2025 11:58
Point of Collection :	Near CRF	Date of Receipt :	27-11-2025
Date of Test/Analysis :	27-11-2025 to 04-12-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m <sup>3</sup> ]	390	TTH/AAQM/08	4000
3	Lead [microgram/m <sup>3</sup> ]	0.1	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	15.7	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part-9) :1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	152.94	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	35.86	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m <sup>3</sup> ]	7.67	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]	80.51	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m <sup>3</sup> ]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m <sup>3</sup> ]	3	IS 5182 Part-26 :2020	20.00

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Ratan Mohi Yogi

Rajesh Maheshwari  
(Report No: 25400002048 )



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JDA/UDH

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./JLR No. :	400002048	Date :	04-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	24-11-2025 11:58 to 25-11-2025 11:58
Point of Collection :	Near CRF	Date of Receipt :	27-11-2025
Date of Test/Analysis :	27-11-2025 to 04-12-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m <sup>3</sup> ]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
13	Benzo (a) Pyrene [ng/m <sup>3</sup> ]	BDL(<1.0)	CPCB Guidelines	1.00

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**Purnima Yogi**  
Senior Analyst

  
**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: 400002048 )



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JDA/UDH

Office : E-65, Chitranganj Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	25400002049	Date :	04-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	24-11-2025 11:59 to 25-11-2025 11:59
Point of Collection :	Near ANFO Station	Date of Receipt :	27-11-2025
Date of Test/Analysis :	27-11-2025 to 04-12-2025	Sampling Plan :	IS 5182:2000(Part 14)/RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	370	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.11	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.81	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(<20.0)	IS 5182 (Part-9) :1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	148.88	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	32.69	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.74	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	75.71	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	4.7	IS 5182 Part-26 :2020	20.00

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**Puran Majhi**  
Senior Analyst

  
**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: 25400002049)



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	400002049	Date :	04-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	24-11-2025 11:59 to 25-11-2025 11:59
Point of Collection :	Near ANFO Station	Date of Receipt :	27-11-2025
Date of Test/Analysis :	27-11-2025 to 04-12-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m <sup>3</sup> ]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
13	Benzo (a) Pyrene [ng/m <sup>3</sup> ]	BDL(<1.0)	CPCB Guidelines	1.00

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Purni Mai Yogi  
Senior Analyst

Rakesh Maheshwari  
(Report No: 400002049)



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C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
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Laboratory : G1-584, RICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	25400002050	Date :	04-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	25-11-2025 12:00 to 26-11-2025 12:00
Point of Collection :	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	27-11-2025
Date of Test/Analysis :	27-11-2025 to 04-12-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m <sup>3</sup> ]	290	TTH/AAQM/08	4000
3	Lead [microgram/m <sup>3</sup> ]	0.11	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	14.2	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part-9) :1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	139.03	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	26.14	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m <sup>3</sup> ]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]	66.78	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m <sup>3</sup> ]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m <sup>3</sup> ]	Less than 2	IS 5182 Part-26 :2020	20.00

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**Puran Mai Yogi**  
Senior Analyst

**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: 25400002050 )



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C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
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Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	400002050	Date :	04-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	25-11-2025 12:00 to 26-11-2025 12:00
Point of Collection :	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	27-11-2025
Date of Test/Analysis :	27-11-2025 to 04-12-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m <sup>3</sup> ]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
13	Benzo (a) Pyrene [ng/m <sup>3</sup> ]	BDL(<1.0)	CPCB Guidelines	1.00

**Notes :-**

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**Puran Maji Yogi**  
Senior Analyst

  
**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: 400002050 )



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Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	25400002051	Date :	04-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	25-11-2025 12:01 to 26-11-2025 12:01
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	27-11-2025
Date of Test/Analysis :	27-11-2025 to 04-12-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing


## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m <sup>3</sup> ]	310	TTH/AAQM/08	4000
3	Lead [microgram/m <sup>3</sup> ]	0.13	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	13.66	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part-9) :1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	135.26	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	27.48	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m <sup>3</sup> ]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]	65.38	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m <sup>3</sup> ]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m <sup>3</sup> ]	2.9	IS 5182 Part-26 :2020	20.00

### Notes :-

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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

  
Puran Mehta  
Senior Analyst

  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: 25400002051)



# TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)

Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

RSPCB

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ISO 45001:2018 (OH&S)

JDA/UDH

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	400002051	Date :	04-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	25-11-2025 12:01 to 26-11-2025 12:01
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	27-11-2025
Date of Test/Analysis :	27-11-2025 to 04-12-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m3]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
13	Benzo (a) Pyrene [ng/m3]	BDL(<1.0)	CPCB Guidelines	1.00

**Notes -**

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*Puran Mehta*  
**Puran Mehta**  
Senior Analyst

*Rajesh Maheshwari*  
**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: 400002051)



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C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	25400002052	Date :	04-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	25-11-2025 12:02 to 26-11-2025 12:02
Point of Collection :	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Receipt :	27-11-2025
Date of Test/Analysis :	27-11-2025 to 04-12-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m <sup>3</sup> ]	320	TTH/AAQM/08	4000
3	Lead [microgram/m <sup>3</sup> ]	0.12	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	13.49	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part-9) :1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	121.61	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	29.42	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m <sup>3</sup> ]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]	67.11	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m <sup>3</sup> ]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m <sup>3</sup> ]	2	IS 5182 Part-26 :2020	20.00

### Notes >

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**Puran Majhi**  
Senior Analyst

  
**Rajesh Mabechhari**  
Authorized Signatory

(Report No: 25400002052 )



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C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RJICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	400002052	Date :	04-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	25-11-2025 12:02 to 26-11-2025 12:02
Point of Collection :	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Receipt :	27-11-2025
Date of Test/Analysis :	27-11-2025 to 04-12-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m <sup>3</sup> ]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
13	Benzo (a) Pyrene [ng/m <sup>3</sup> ]	BDL(<1.0)	CPCB Guidelines	1.00

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Rajesh Maheshwari

  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: 400002052)



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C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
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Email : team.bdhead@gmail.com

Laboratory : G1-584, RHICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235725400002158F	Date :	23-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	11-12-2025 12:32 to 12-12-2025 12:33
Point of Collection :	Near Sub Station	Date of Receipt :	13-12-2025
Date of Test/Analysis :	13-12-2025 to 22-12-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	370	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.13	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.32	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(<20.0)	IS 5182 (Part-9) : 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	124.12	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	32.68	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.56	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	64.2	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	2.1	IS 5182 Part-26 :2020	20.00

### Notes :-

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Purnima Yoo  
Senior Analyst

Rajesh Maheshwar  
Authorized Signatory

(Report No: TC1235725400002158F )



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Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	400002158	Date :	23-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	11-12-2025 12:32 to 12-12-2025 12:33
Point of Collection :	Near Sub Station	Date of Receipt :	13-12-2025
Date of Test/Analysis :	13-12-2025 to 22-12-2025	Sampling Plan :	IS 5182.2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m3]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
13	Benzo (a) Pyrene [ng/m3]	BDL(<1.0)	CPCB Guidelines	1.00

**Notes -**

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*Prakash Sharma*  
Senior Analyst

*Krashtra Murari*  
Authorized Signatory  
(Report No: 400002158 )



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235725400002159F	Date :	23-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	11-12-2025 12:35 to 12-12-2025 12:35
Point of Collection :	Near CRF	Date of Receipt :	13-12-2025
Date of Test/Analysis :	13-12-2025 to 22-12-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m <sup>3</sup> ]	380	TTH/AAQM/08	4000
3	Lead [microgram/m <sup>3</sup> ]	0.14	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	15.41	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part-9) :1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	142.93	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	36.18	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m <sup>3</sup> ]	7.05	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]	78.23	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m <sup>3</sup> ]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m <sup>3</sup> ]	2.1	IS 5182 Part-26 :2020	20.00

### Notes :-

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Puran Mai Yogi  
Senior Analyst

Rajesh Maheshwari  
Analyst

(Report No: TC1235725400002159F)



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JDA/UDH

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	400002159	Date :	23-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	11-12-2025 12:35 to 12-12-2025 12:35
Point of Collection :	Near CRF	Date of Receipt :	13-12-2025
Date of Test/Analysis :	13-12-2025 to 22-12-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m <sup>3</sup> ]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
13	Benzo (a) Pyrene [ng/m <sup>3</sup> ]	BDL(<1.0)	CPCB Guidelines	1.00

**Notes -**

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*Prakash*  
Prakash Yogi

*Raj*  
Authorized Signatory  
(Report No: 400002159)



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JDA/UDH

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379.  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235725400002160F	Date :	23-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	11-12-2025 12:40 to 12-12-2025 12:40
Point of Collection :	Near ANFO Station	Date of Receipt :	13-12-2025
Date of Test/Analysis :	13-12-2025 to 22-12-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	360	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.13	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.78	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(<20.0)	IS 5182 (Part-9):1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	139.88	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	34.46	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.45	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	72.18	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	3	IS 5182 Part-26 :2020	20.00

### Notes -

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Purni Mehta  
Senior Analyst

  
Rajash Mishra  
(Report No: TC1235725400002160F )



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JDA/UDH

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C-Scheme, Jaipur - 302001, Rajasthan  
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Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	400002160	Date :	23-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	11-12-2025 12:40 to 12-12-2025 12:40
Point of Collection :	Near ANFO Station	Date of Receipt :	13-12-2025
Date of Test/Analysis :	13-12-2025 to 22-12-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing


### RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m3]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
13	Benzo (a) Pyrene [ng/m3]	BDL(<1.0)	CPCB Guidelines	1.00

**Notes -**

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Senior Analyst

  
Authorized Signatory  
(Report No: 400002160)



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235725400002161F	Date :	23-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	10-12-2025 12:53 to 11-12-2025 12:53
Point of Collection :	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	13-12-2025
Date of Test/Analysis :	13-12-2025 to 22-12-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m <sup>3</sup> ]	310	TTH/AAQM/08	4000
3	Lead [microgram/m <sup>3</sup> ]	0.11	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	13.47	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part-9):1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	105.69	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	25.62	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m <sup>3</sup> ]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	58.95	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m <sup>3</sup> ]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m <sup>3</sup> ]	4.4	IS 5182 Part-26 :2020	20.00

### Notes :-

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Puran M. Yogi  
Senior Analyst

Rajesh Maheshwar  
(Report No: TC1235725400002161F)



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	400002161	Date :	23-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	10-12-2025 12:53 to 11-12-2025 12:53
Point of Collection :	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	13-12-2025
Date of Test/Analysis :	13-12-2025 to 22-12-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m3]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
13	Benzo (a) Pyrene [ng/m3]	BDL(<1.0)	CPCB Guidelines	1.00

**Notes -**

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*Puran K. Vooi*  
Senior Analyst

*Pat*  
Authorized Signatory  
(Report No: 400002161)



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JDA/UDH

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C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235725400002162F	Date :	23-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	10-12-2025 12:54 to 11-12-2025 12:54
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	13-12-2025
Date of Test/Analysis :	13-12-2025 to 22-12-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	250	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.13	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	13.6	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(<20.0)	IS 5182 (Part-9) :1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	102.95	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	26.54	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	58.32	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	Less than 2	IS 5182 Part-26 :2020	20.00

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Purnima Yogi  
Senior Analyst

Rajesh Maheshwar

(Report No: TC1235725400002162F )



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JDA/UDH

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	400002162	Date :	23-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	10-12-2025 12:54 to 11-12-2025 12:54
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	13-12-2025
Date of Test/Analysis :	13-12-2025 to 22-12-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m <sup>3</sup> ]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
13	Benzo (a) Pyrene [ng/m <sup>3</sup> ]	BDL(<1.0)	CPCB Guidelines	1.00

### Notes :-

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Puran Mai Yogi  
Senior Analyst

  
Authorized Signatory  
(Report No: 400002162 )



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235725400002163F	Date :	23-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	10-12-2025 12:55 to 11-12-2025 12:55
Point of Collection :	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Receipt :	13-12-2025
Date of Test/Analysis :	13-12-2025 to 22-12-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	340	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.14	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	13.25	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(<20.0)	IS 5182 (Part-9) : 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	130.7	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	28.83	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.08	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	66.34	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	2.2	IS 5182 Part-26 :2020	20.00

### Notes :-

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Purnima Yogi  
Senior Analyst

Rakesh Maheshwar  
Analyst

(Report No: TC1235725400002163F )



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JDA/UDH

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bfhead@gmail.com

Laboratory : G1-584, RICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	400002163	Date :	23-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	10-12-2025 12:55 to 11-12-2025 12:55
Point of Collection :	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Receipt :	13-12-2025
Date of Test/Analysis :	13-12-2025 to 22-12-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m3]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
13	Benzo (a) Pyrene [ng/m3]	BDL(<1.0)	CPCB Guidelines	1.00

**Notes -**

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Senior Analyst

  
Authorized Signatory  
(Report No: 400002163)



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235726400002297F	Date :	01-01-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	26-12-2025 12:03 to 27-12-2025 12:03
Point of Collection :	Near Sub Station	Date of Receipt :	29-12-2025
Date of Test/Analysis :	29-12-2025 to 01-01-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400
2	Carbon Monoxide [microgram/m <sup>3</sup> ]	370	TTH/AAQM/08	2000 (8 Hours)
3	Lead [microgram/m <sup>3</sup> ]	0.11	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	15.76	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part-9) :1974	100 (8 Hours)
6	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	126.28	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	31.98	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m <sup>3</sup> ]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]	65.91	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m <sup>3</sup> ]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m <sup>3</sup> ]	Less than 2	IS 5182 Part-26 :2020	20.00

### Notes >

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Prakash Maheshwar  
Senior Analyst

  
Rakesh Maheshwar  
Authorized Signatory

(Report No: TC1235726400002297F )



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JDA/UDH

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	400002297	Date :	01-01-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	26-12-2025 12:03 to 27-12-2025 12:03
Point of Collection :	Near Sub Station	Date of Receipt :	29-12-2025
Date of Test/Analysis :	29-12-2025 to 01-01-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

### RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m <sup>3</sup> ]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
13	Benzo (a) Pyrene [ng/m <sup>3</sup> ]	BDL(<1.0)	IS 5182 (Part-12) :2004 RA 2019	1.00

**Notes -**

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Senior Analyst

Authorized Signatory  
(Report No: 400002297 )



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JDA/UDH

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C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235726400002298F	Date :	01-01-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	26-12-2025 12:04 to 27-12-2025 12:04
Point of Collection :	Near CRF	Date of Receipt :	29-12-2025
Date of Test/Analysis :	29-12-2025 to 01-01-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400
2	Carbon Monoxide [microgram/m <sup>3</sup> ]	390	TTH/AAQM/08	2000 (8 Hours)
3	Lead [microgram/m <sup>3</sup> ]	0.14	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	15.8	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part-9) :1974	100 (8 Hours)
6	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	146.01	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	38.31	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m <sup>3</sup> ]	6.38	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]	77.17	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m <sup>3</sup> ]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m <sup>3</sup> ]	2.3	IS 5182 Part-26 :2020	20.00

### Notes -

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Senior Analyst

Authorized Signatory  
(Report No: TC1235726400002298F)



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(Unit of Team Institute of Science & Technology Pvt. Ltd.)

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JDA/UDH

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	400002298	Date :	01-01-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	26-12-2025 12:04 to 27-12-2025 12:04
Point of Collection :	Near CRF	Date of Receipt :	29-12-2025
Date of Test/Analysis :	29-12-2025 to 01-01-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m3]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
13	Benzo (a) Pyrene [ng/m3]	BDL(<1.0)	IS 5182 (Part-12) :2004 RA 2019	1.00

**Notes :-**

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Senior Analyst

  
Rajesh B. Bhatnagar  
(Report No: 400002298 )



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6577210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235726400002299F	Date :	01-01-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	26-12-2025 12:06 to 27-12-2025 12:06
Point of Collection :	Near ANFO Station	Date of Receipt :	29-12-2025
Date of Test/Analysis :	29-12-2025 to 01-01-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400
2	Carbon Monoxide [microgram/m <sup>3</sup> ]	380	TTH/AAQM/08	2000 (8 Hours)
3	Lead [microgram/m <sup>3</sup> ]	0.12	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	14.79	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part-9) :1974	100 (8 Hours)
6	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	144.11	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	36.87	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m <sup>3</sup> ]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]	72.91	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m <sup>3</sup> ]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m <sup>3</sup> ]	2.2	IS 5182 Part-26 :2020	20.00

### Notes >

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Purni Mai Yogi  
Senior Analyst

Authorized Signatory  
(Report No: TC1235726400002299F )



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RHCO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	400002299	Date :	01-01-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	26-12-2025 12:06 to 27-12-2025 12:06
Point of Collection :	Near ANFO Station	Date of Receipt :	29-12-2025
Date of Test/Analysis :	29-12-2025 to 01-01-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m <sup>3</sup> ]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
13	Benzo (a) Pyrene [ng/m <sup>3</sup> ]	BDL(<1.0)	IS 5182 (Part-12) :2004 RA 2019	1.00

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Purnima Yogi  
Senior Analyst

  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: 400002299 )



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235726400002300F	Date :	01-01-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	27-12-2025 12:07 to 28-12-2025 12:07
Point of Collection :	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	29-12-2025
Date of Test/Analysis :	29-12-2025 to 01-01-2026	Sampling Plan :	IS 5182:2000(Part 14)/RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400
2	Carbon Monoxide [microgram/m <sup>3</sup> ]	250	TTH/AAQM/08	2000 (8 Hours)
3	Lead [microgram/m <sup>3</sup> ]	0.17	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	13.33	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part-9) : 1974	100 (8 Hours)
6	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	124.01	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	34.29	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m <sup>3</sup> ]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]	72.06	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m <sup>3</sup> ]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m <sup>3</sup> ]	4.7	IS 5182 Part-26 : 2020	20.00

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Senior Analyst

Authorized Signatory  
(Report No: TC1235726400002300F)



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : GI-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	400002300	Date :	01-01-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	27-12-2025 12:07 to 28-12-2025 12:07
Point of Collection :	Lohagal Village [26°31'06.7"N, 74°39'30.8"E]	Date of Receipt :	29-12-2025
Date of Test/Analysis :	29-12-2025 to 01-01-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing


### RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m3]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
13	Benzo (a) Pyrene [ng/m3]	BDL(<1.0)	IS 5182 (Part-12) :2004 RA 2019	1.00

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Senior Analyst

  
Authorized Signatory  
(Report No: 400002300)



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JDA/UDH

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077579,  
Website : www.teamtesthouse.com  
Email : team.bfhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235726400002301F	Date :	01-01-2026
Issued To :	M/S Hindustan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	27-12-2025 12:08 to 28-12-2025 12:08
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	29-12-2025
Date of Test/Analysis :	29-12-2025 to 01-01-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400
2	Carbon Monoxide [microgram/m3]	290	TTH/AAQM/08	2000 (8 Hours)
3	Lead [microgram/m3]	0.13	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	13.49	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(<20.0)	IS 5182 (Part-9) : 1974	100 (8 Hours)
6	Suspended Particulate Matter (SPM) [microgram/m3]	123.03	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	25.07	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	7.8	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	65.28	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	3.1	IS 5182 Part-26 -2020	20.00

### Notes -

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Senior Analyst

  
Authorized Signatory  
(Report No: TC1235726400002301F)



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JDA/UDH

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./JLR No. :	400002301	Date :	01-01-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	27-12-2025 12:08 to 28-12-2025 12:08
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	29-12-2025
Date of Test/Analysis :	29-12-2025 to 01-01-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m <sup>3</sup> ]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
13	Benzo (a) Pyrene [ng/m <sup>3</sup> ]	BDL(<1.0)	IS 5182 (Part-12) :2004 RA 2019	1.00

**Notes :**

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Prakash Kumar Yogi  
Senior Analyst

Rajesh M. Meshwar  
Authorized Signatory  
(Report No: 400002301)



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Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235726400002302F	Date :	01-01-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	27-12-2025 12:09 to 28-12-2025 12:09
Point of Collection :	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Receipt :	29-12-2025
Date of Test/Analysis :	29-12-2025 to 01-01-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400
2	Carbon Monoxide [microgram/m <sup>3</sup> ]	310	TTH/AAQM/08	2000 (8 Hours)
3	Lead [microgram/m <sup>3</sup> ]	0.13	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	13.67	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part-9) :1974	100 (8 Hours)
6	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	114.27	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	27.78	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m <sup>3</sup> ]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	65.49	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m <sup>3</sup> ]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m <sup>3</sup> ]	3.6	IS 5182 Part-26 :2020	20.00

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Senior Analyst

Rakesh Sharma  
(Report No: TC1235726400002302F)



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JDA/UDH

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	400002302	Date :	01-01-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	27-12-2025 12:09 to 28-12-2025 12:09
Point of Collection :	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Receipt :	29-12-2025
Date of Test/Analysis :	29-12-2025 to 01-01-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m <sup>3</sup> ]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
13	Benzo (a) Pyrene [ng/m <sup>3</sup> ]	BDL(<1.0)	IS 5182 (Part-12) :2004 RA 2019	1.00

Notes :-

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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

  
Puran Mai Yogi  
Senior Analyst

  
Rakesh Kumar Shrivastava  
Authorized Signatory  
(Report No: 400002302)



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JDA/UDH

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC123572640000032F	Date :	20-01-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	09-01-2026 10:20 to 10-01-2026 10:20
Point of Collection :	Near Sub Station	Date of Receipt :	12-01-2026
Date of Test/Analysis :	12-01-2026 to 20-01-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400
2	Carbon Monoxide [microgram/m <sup>3</sup> ]	360	TTH/AAQM/08	2000 (8 Hours)
3	Lead [microgram/m <sup>3</sup> ]	Less than 0.1	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	14.96	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part-9) :1974	100 (8 Hours)
6	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	137.6	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	33.17	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m <sup>3</sup> ]	6.33	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	81.36	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m <sup>3</sup> ]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m <sup>3</sup> ]	5.4	IS 5182 Part-26 :2020	20.00

### Notes :-

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Puran Mal Yogi  
Senior Analyst

Rajesh Khosla  
Authorized Signatory

(Report No: TC123572640000032F )



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JDA/UDH

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	400000032	Date :	20-01-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	09-01-2026 10:20 to 10-01-2026 10:20
Point of Collection :	Near Sub Station	Date of Receipt :	12-01-2026
Date of Test/Analysis :	12-01-2026 to 20-01-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m3]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
13	Benzo (a) Pyrene [ng/m3]	BDL(<1.0)	IS 5182 (Part-12) :2004 RA 2019	1.00

**Notes :-**

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**Puran Mahto**  
Senior Analyst

**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: 400000032)



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JDA/UDH

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C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235726400000033F	Date :	20-01-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	09-01-2026 10:21 to 10-01-2026 10:21
Point of Collection :	Near CRF	Date of Receipt :	12-01-2026
Date of Test/Analysis :	12-01-2026 to 20-01-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400
2	Carbon Monoxide [microgram/m3]	380	TTH/AAQM/08	2000 (8 Hours)
3	Lead [microgram/m3]	Less than 0.1	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	15.12	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(<20.0)	IS 5182 (Part-9):1974	100 (8 Hours)
6	Suspended Particulate Matter (SPM) [microgram/m3]	155.1	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	39.66	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.1	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	78.4	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	2.9	IS 5182 Part-26 :2020	20.00

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Purnan M. Yogi  
Senior Analyst

Rakesh Maheshwari  
Authorized Signatory

(Report No: TC1235726400000033F )



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JDA/UDH

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	400000033	Date :	20-01-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	09-01-2026 10:21 to 10-01-2026 10:21
Point of Collection :	Near CRF	Date of Receipt :	12-01-2026
Date of Test/Analysis :	12-01-2026 to 20-01-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m <sup>3</sup> ]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
13	Benzo (a) Pyrene [ng/m <sup>3</sup> ]	BDL(<1.0)	IS 5182 (Part-12) :2004 RA 2019	1.00

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Puran Maheshwari  
Senior Analyst

  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: 400000033 )



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC123572640000034F	Date :	20-01-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	09-01-2026 10:22 to 10-01-2026 10:22
Point of Collection :	Near ANFO Station	Date of Receipt :	12-01-2026
Date of Test/Analysis :	12-01-2026 to 20-01-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400
2	Carbon Monoxide [microgram/m3]	390	TTH/AAQM/08	2000 (8 Hours)
3	Lead [microgram/m3]	Less than 0.1	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	15.12	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(<20.0)	IS 5182 (Part-9) :1974	100 (8 Hours)
6	Suspended Particulate Matter (SPM) [microgram/m3]	142.2	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	37.26	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.03	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	83.29	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	2.2	IS 5182 Part-26 :2020	20.00

### Notes :

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Puran Mal Yogi  
Senior Analyst

Rajesh Babeshwari  
(Report No: TC123572640000034F)



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JDA/UDH

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	400000034	Date :	20-01-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	09-01-2026 10:22 to 10-01-2026 10:22
Point of Collection :	Near ANFO Station	Date of Receipt :	12-01-2026
Date of Test/Analysis :	12-01-2026 to 20-01-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

### RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m3]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
13	Benzo (a) Pyrene [ng/m3]	BDL(<1.0)	IS 5182 (Part-12) :2004 RA 2019	1.00

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Puran Majhi  
Senior Analyst

  
Rajesh Maheshwari  
Authorized Signatory

(Report No: 400000034 )



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JDA/UDH

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235726400000035F	Date :	20-01-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	08-01-2026 10:23 to 09-01-2026 10:23
Point of Collection :	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	12-01-2026
Date of Test/Analysis :	12-01-2026 to 20-01-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400
2	Carbon Monoxide [microgram/m3]	290	TTH/AAQM/08	2000 (8 Hours)
3	Lead [microgram/m3]	0.12	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	13.03	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(<20.0)	IS 5182 (Part-9) : 1974	100 (8 Hours)
6	Suspended Particulate Matter (SPM) [microgram/m3]	115.94	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	33.98	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	72.37	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	3.9	IS 5182 Part-26 :2020	20.00

### Notes :-

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Puran Mai Yogi  
Senior Analyst

Rajesh Maheshwari  
Authorized Signatory

(Report No: TC1235726400000035F )



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JDA/UDH

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
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Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	400000035	Date :	20-01-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	08-01-2026 10:23 to 09-01-2026 10:23
Point of Collection :	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	12-01-2026
Date of Test/Analysis :	12-01-2026 to 20-01-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m <sup>3</sup> ]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
13	Benzo (a) Pyrene [ng/m <sup>3</sup> ]	BDL(<1.0)	IS 5182 (Part-12) :2004 RA 2019	1.00

**Notes :-**

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**Puran Mattogri**  
Senior Analyst

*Rajesh Maheshwari*  
Authorized Signatory  
(Report No: 400000035)



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JDA/UDH

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Phone : +91 6377210064, 9414077379,  
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Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235726400000036F	Date :	20-01-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	08-01-2026 10:24 to 09-01-2026 10:24
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	12-01-2026
Date of Test/Analysis :	12-01-2026 to 20-01-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400
2	Carbon Monoxide [microgram/m3]	310	TTH/AAQM/08	2000 (8 Hours)
3	Lead [microgram/m3]	0.11	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.15	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(<20.0)	IS 5182 (Part-9) :1974	100 (8 Hours)
6	Suspended Particulate Matter (SPM) [microgram/m3]	134.53	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	29.99	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	75.57	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	3.7	IS 5182 Part-26 :2020	20.00

### Notes -

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Puran Mehta  
Senior Analyst

Rajesh Maheshwari  
Authorized Signatory

(Report No: TC1235726400000036F )



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	400000036	Date :	20-01-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	08-01-2026 10:24 to 09-01-2026 10:24
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	12-01-2026
Date of Test/Analysis :	12-01-2026 to 20-01-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m3]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
13	Benzo (a) Pyrene [ng/m3]	BDL(<1.0)	IS 5182 (Part-12) :2004 RA 2019	1.00

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Puran Majhi  
Senior Analyst

  
Rajesh Moheshwari  
(Report No: 400000036)



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JDA/UDH

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Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No.:	TC1235726400000037F	Date :	20-01-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	08-01-2026 10:25 to 09-01-2026 10:25
Point of Collection :	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Receipt :	12-01-2026
Date of Test/Analysis :	12-01-2026 to 20-01-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400
2	Carbon Monoxide [microgram/m3]	320	TTH/AAQM/08	2000 (8 Hours)
3	Lead [microgram/m3]	0.11	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	13.91	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(<20.0)	IS 5182 (Part-9) : 1974	100 (8 Hours)
6	Suspended Particulate Matter (SPM) [microgram/m3]	116.2	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	29.81	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	72.61	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	3.1	IS 5182 Part-26 : 2020	20.00

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Buran Moh Yogi  
Senior Analyst

Rajesh Maheshwari  
(Report No: TC1235726400000037F)



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JDA/UDH

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Phone : +91 6377210064, 9414077379,  
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Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	400000037	Date :	20-01-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	08-01-2026 10:25 to 09-01-2026 10:25
Point of Collection :	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Receipt :	12-01-2026
Date of Test/Analysis :	12-01-2026 to 20-01-2026.	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m <sup>3</sup> ]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
13	Benzo (a) Pyrene [ng/m <sup>3</sup> ]	BDL(<1.0)	IS 5182 (Part-12) :2004 RA 2019	1.00

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Puran Mal Yogi  
Senior Analyst

  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: 400000037)



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Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235726400000088F	Date:	02-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	22-01-2026 10:39 to 23-01-2026 10:39
Point of Collection :	Near Sub Station	Date of Receipt :	24-01-2026
Date of Test :	24-01-2026 to 02-02-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400
2	Carbon Monoxide [microgram/m <sup>3</sup> ]	340	TTH/AAQM/08	2000 (8 Hours)
3	Lead [microgram/m <sup>3</sup> ]	Less than 0.1	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	14.72	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part-9) : 1974	100 (8 Hours)
6	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	146.94	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	33.17	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m <sup>3</sup> ]	6.87	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]	70.85	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m <sup>3</sup> ]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m <sup>3</sup> ]	Less than 2	IS 5182 Part-26 :2020	20.00

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Senior Analyst

Rajesh Maheshwari  
Authorized Signatory

(Report No: TC1235726400000088F )



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	400000088	Date:	02-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	22-01-2026 10:39 to 23-01-2026 10:39
Point of Collection :	Near Sub Station	Date of Receipt :	24-01-2026
Date of Test :	24-01-2026 to 02-02-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m3]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
13	Benzo (a) Pyrene [ng/m3]	BDL(<1.0)	IS 5182 (Part-12) :2004 RA 2019	1.00

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*Purani*  
**Purani Mai Yogi**  
Senior Analyst

*Rajesh*  
**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: 400000088)



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JDA/UDH

Office : E-65, Chitranganj Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235726400000089F	Date:	02-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	22-01-2026 10:39 to 23-01-2026 10:39
Point of Collection :	Near CRF	Date of Receipt :	24-01-2026
Date of Test :	24-01-2026 to 02-02-2026	Sampling Plan :	IS 5182-2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400
2	Carbon Monoxide [microgram/m <sup>3</sup> ]	360	TTH/AAQM/08	2000 (8 Hours)
3	Lead [microgram/m <sup>3</sup> ]	Less than 0.1	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	15.05	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part-9) : 1974	100 (8 Hours)
6	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	140.33	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	35.41	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m <sup>3</sup> ]	6.43	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	74.82	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m <sup>3</sup> ]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m <sup>3</sup> ]	2.2	IS 5182 Part-26 :2020	20.00

**Notes -**

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Senior Analyst

Rajesh Maheshwar  
Authorized Signatory  
(Report No: TC1235726400000089F )



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ISO 45001:2018 (OH&S)

JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	400000089	Date:	02-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	22-01-2026 10:39 to 23-01-2026 10:39
Point of Collection :	Near CRF	Date of Receipt :	24-01-2026
Date of Test :	24-01-2026 to 02-02-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram Jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009.
12	Benzene [microgram/m3]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
13	Benzo (a) Pyrene [ng/m3]	BDL(<1.0)	IS 5182 (Part-12) :2004 RA 2019	1.00

**Notes >**

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Purnan Mal Yogi  
Senior Analyst

  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: 400000089)



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JDA/UDH

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
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Email : team.bdhead@gmail.com

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Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC123572640000090F	Date:	02-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	22-01-2026 10:40 to 23-01-2026 10:40
Point of Collection :	Near ANFO Station	Date of Receipt :	24-01-2026
Date of Test :	24-01-2026 to 02-02-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400
2	Carbon Monoxide [microgram/m3]	370	TTH/AAQM/08	2000 (8 Hours)
3	Lead [microgram/m3]	Less than 0.1	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	15.35	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(<20.0)	IS 5182 (Part-9) : 1974	100 (8 Hours)
6	Suspended Particulate Matter (SPM) [microgram/m3]	134.72	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	37.85	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.7	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	83.53	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	2.3	IS 5182 Part-26 :2020	20.00

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Purnima Yogi  
Senior Analyst

Rajesh Maheshwar  
Authorized Signatory

(Report No: TC123572640000090F)



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JDA/UDH

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Laboratory : G1-584, RICO Industrial Area,  
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Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	400000090	Date:	02-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	22-01-2026 10:40 to 23-01-2026 10:40
Point of Collection :	Near ANFO Station	Date of Receipt :	24-01-2026
Date of Test :	24-01-2026 to 02-02-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram Jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

### RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m3]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
13	Benzo (a) Pyrene [ng/m3]	BDL(<1.0)	IS 5182 (Part-12) :2004 RA 2019	1.00

**Notes :-**

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**Puran Mal Yogi**  
Senior Analyst

  
**Rajesh Maheshwar**  
Authorized Signatory  
(Report No: 400000090 )



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No.:	TC1235726400000091F	Date:	02-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	21-01-2026 10:41 to 22-01-2026 10:41
Point of Collection :	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Receipt :	24-01-2026
Date of Test :	24-01-2026 to 02-02-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400
2	Carbon Monoxide [microgram/m3]	310	TTH/AAQM/08	2000 (8 Hours)
3	Lead [microgram/m3]	0.12	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	13.13	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(<20.0)	IS 5182 (Part-9) :1974	100 (8 Hours)
6	Suspended Particulate Matter (SPM) [microgram/m3]	122.32	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	29.69	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	68.76	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	3.9	IS 5182 Part-26 :2020	20.00

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Senior Analyst

Authorized Signatory  
(Report No: TC1235726400000091F )



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JDA/UDH

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	400000091	Date:	02-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	21-01-2026 10:41 to 22-01-2026 10:41
Point of Collection :	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Receipt :	24-01-2026
Date of Test :	24-01-2026 to 02-02-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram Jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

### RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m <sup>3</sup> ]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
13	Benzo (a) Pyrene [ng/m <sup>3</sup> ]	BDL(<1.0)	IS 5182 (Part-12) :2004 RA 2019	1.00

**Notes -**

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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

  
Purnima Yogi  
Senior Analyst

  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: 400000091)



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JDA/UDH

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C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235726400000092F	Date:	02-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	21-01-2026 10:42 to 22-01-2026 10:42
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	24-01-2026
Date of Test :	24-01-2026 to 02-02-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400
2	Carbon Monoxide [microgram/m3]	320	TTH/AAQM/08	2000 (8 Hours)
3	Lead [microgram/m3]	0.13	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	13.17	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(<20.0)	IS 5182 (Part-9) :1974	100 (8 Hours)
6	Suspended Particulate Matter (SPM) [microgram/m3]	126.31	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	30.76	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	61.28	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	3.8	IS 5182 Part-26 :2020	20.00

### Notes >

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Senior Analyst

Authorized Signatory  
(Report No: TC1235726400000092F)



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JDA/UDH

Office : E-65, Chitranganj Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	400000092	Date:	02-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	21-01-2026 10:42 to 22-01-2026 10:42
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	24-01-2026
Date of Test :	24-01-2026 to 02-02-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m3]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
13	Benzo (a) Pyrene [ng/m3]	BDL(<1.0)	IS 5182 (Part-12) :2004 RA 2019	1.00

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Senior Analyst

Authorized Signatory  
(Report No: 400000092)



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C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC123572640000093F	Date:	02-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	21-01-2026 10:44 to 22-01-2026 10:44
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	24-01-2026
Date of Test :	24-01-2026 to 02-02-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400
2	Carbon Monoxide [microgram/m <sup>3</sup> ]	280	TTH/AAQM/08	2000 (8 Hours)
3	Lead [microgram/m <sup>3</sup> ]	0.15	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	13.65	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part-9):1974	100 (8 Hours)
6	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	123.6	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	26.53	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m <sup>3</sup> ]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]	55.4	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m <sup>3</sup> ]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m <sup>3</sup> ]	3.6	IS 5182 Part-26 :2020	20.00

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Purni Mal Yogi  
Senior Analyst

Rajesh Mahochwar  
Authorized Signatory

(Report No: TC123572640000093F)



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JDA/UDH

Office : E-65, Chitranganj Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No.:	400000093	Date:	02-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	21-01-2026 10:44 to 22-01-2026 10:44
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	24-01-2026
Date of Test :	24-01-2026 to 02-02-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m3]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
13	Benzo (a) Pyrene [ng/m3]	BDL(<1.0)	IS 5182 (Part-12) :2004 RA 2019	1.00

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Senior Analyst

Authorized Signatory  
(Report No: 400000093)



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235726400000106F	Date :	14-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	05-02-2026 15:54 to 06-02-2026 15:54
Point of Collection :	Near Sub Station	Date of Receipt :	07-02-2026
Date of Test/Analysis :	07-02-2026 to 13-02-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400
2	Carbon Monoxide [microgram/m3]	330	TTH/AAQM/08	2000 (8 Hours)
3	Lead [microgram/m3]	Less than 0.1	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.07	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(<20.0)	IS 5182 (Part-9) :1974	100 (8 Hours)
6	Suspended Particulate Matter (SPM) [microgram/m3]	141.44	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	32.95	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.27	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	69.57	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	3	IS 5182 Part-26 :2020	20.00

### Notes -

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Purnima  
Senior Analyst

  
Rajesh Madheshwar  
Authorized Signatory  
(Report No: TC1235726400000106F )



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./JLR No. :	400000106	Date :	14-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	05-02-2026 15:54 to 06-02-2026 15:54
Point of Collection :	Near Sub Station	Date of Receipt :	07-02-2026
Date of Test/Analysis :	07-02-2026 to 13-02-2026	Sampling Plan :	IS 5182-2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m3]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
13	Benzo (a) Pyrene [ng/m3]	BDL(<1.0)	IS 5182 (Part-12) :2004 RA 2019	1.00

**Notes -**

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*Puran Singh*  
Puran Singh  
Senior Analyst

*Rajesh Maheshwar*  
Rajesh Maheshwar  
Authorized Signatory  
(Report No: 400000106 )



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C-Scheme, Jaipur - 302001, Rajasthan  
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Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235726400000107F	Date :	14-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	05-02-2026 15:55 to 06-02-2026 15:55
Point of Collection :	Near CRF	Date of Receipt :	07-02-2026
Date of Test/Analysis :	07-02-2026 to 13-02-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400
2	Carbon Monoxide [microgram/m3]	370	TTH/AAQM/08	2000 (8 Hours)
3	Lead [microgram/m3]	Less than 0.1	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	15.7	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(<20.0)	IS 5182 (Part-9) : 1974	100 (8 Hours)
6	Suspended Particulate Matter (SPM) [microgram/m3]	145.33	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	34.84	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.55	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	75.07	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	5	IS 5182 Part-26 :2020	20.00

### Notes -

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Purnima Khatiwala  
Senior Analyst

Rajesh Khatiwala  
Authorized Signatory

(Report No: TC1235726400000107F )



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Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	400000107	Date :	14-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	05-02-2026 15:55 to 06-02-2026 15:55
Point of Collection :	Near CRF	Date of Receipt :	07-02-2026
Date of Test/Analysis :	07-02-2026 to 13-02-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m <sup>3</sup> ]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
13	Benzo (a) Pyrene [ng/m <sup>3</sup> ]	BDL(<1.0)	IS 5182 (Part-12) :2004 RA 2019	1.00

**Notes -**

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Puran Malhotra  
Senior Analyst

  
Rajesh Malhotra  
Authorized Signatory  
(Report No: 400000107)



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JDA/UDH

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235726400000108F	Date :	14-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	05-02-2026 15:57 to 06-02-2026 15:57
Point of Collection :	Near ANFO Station	Date of Receipt :	07-02-2026
Date of Test/Analysis :	07-02-2026 to 13-02-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400
2	Carbon Monoxide [microgram/m3]	380	TTH/AAQM/08	2000 (8 Hours)
3	Lead [microgram/m3]	0.18	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.66	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(<20.0)	IS 5182 (Part-9) :1974	100 (8 Hours)
6	Suspended Particulate Matter (SPM) [microgram/m3]	153.49	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	38.83	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.14	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	84.51	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	3.6	IS 5182 Part-26 :2020	20.00

### Notes -

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Puran Singh  
Senior Analyst

  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: TC1235726400000108F)



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	400000108	Date :	14-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	05-02-2026 15:57 to 06-02-2026 15:57
Point of Collection :	Near ANFO Station	Date of Receipt :	07-02-2026
Date of Test/Analysis :	07-02-2026 to 13-02-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

### RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m3]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
13	Benzo (a) Pyrene [ng/m3]	BDL(<1.0)	IS 5182 (Part-12) :2004 RA 2019	1.00

**Notes :-**

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*Puran Prastogi*  
Senior Analyst

*Rajesh Matheshwari*  
Authorized Signatory  
(Report No: 400000108 )



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Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235726400000109F	Date :	14-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	04-02-2026 15:58 to 05-02-2026 15:58
Point of Collection :	Lohagal Village (26°31'08.7"N, 74°39'30.8"E)	Date of Receipt :	07-02-2026
Date of Test/Analysis :	07-02-2026 to 13-02-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m <sup>3</sup> ]	More than 200	IS 5182 (Part 25) : 2018	400
2	Carbon Monoxide [microgram/m <sup>3</sup> ]	290	TTH/AAQM/08	2000 (8 Hours)
3	Lead [microgram/m <sup>3</sup> ]	0.11	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	13.86	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part-9) :1974	100 (8 Hours)
6	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	134.74	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	29.03	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m <sup>3</sup> ]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]	72.25	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m <sup>3</sup> ]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m <sup>3</sup> ]	3.7	IS 5182 Part-26 :2020	20.00

### Notes :-

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Purnima Singh  
Senior Analyst

  
Rajesh Marashwari  
Authorized Signatory

(Report No: TC1235726400000109F)



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Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglah@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	400000109	Date :	14-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	04-02-2026 15:58 to 05-02-2026 15:58
Point of Collection :	Lohagal Village [26°31'08.7"N. 74°39'30.8"E]	Date of Receipt :	07-02-2026
Date of Test/Analysis :	07-02-2026 to 13-02-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m <sup>3</sup> ]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
13	Benzo (a) Pyrene [ng/m <sup>3</sup> ]	BDL(<1.0)	IS 5182 (Part-12) :2004 RA 2019	1.00

**Notes :-**

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*Punit*  
Senior Analyst

*Rajesh Maheshwari*  
Authorized Signatory  
(Report No: 400000109)



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6577210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No.:	TC1235726400000110F	Date :	14-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	04-02-2026 15:59 to 05-02-2026 15:59
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	07-02-2026
Date of Test/Analysis :	07-02-2026 to 13-02-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400
2	Carbon Monoxide [microgram/m3]	280	TTH/AAQM/08	2000 (8 Hours)
3	Lead [microgram/m3]	0.12	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m3]	13.64	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(<20.0)	IS 5182 (Part-9):1974	100 (8 Hours)
6	Suspended Particulate Matter (SPM) [microgram/m3]	132.64	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m3]	27.71	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	66.49	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	3.6	IS 5182 Part-26 :2020	20.00

Notes -

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Puran Singh  
Senior Analyst

  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: TC1235726400000110F )



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.btlhead@gmail.com

Laboratory : G1-584, RICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

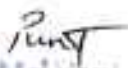
Report No./ULR No. :	400000110	Date :	14-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	04-02-2026 15:59 to 05-02-2026 15:59
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	07-02-2026
Date of Test/Analysis :	07-02-2026 to 13-02-2026	Sampling Plan :	IS 5182 2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m3]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
13	Benzo (a) Pyrene [ng/m3]	BDL(<1.0)	IS 5182 (Part-12) :2004 RA 2019	1.00

### Notes >

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Purnima  
Senior Analyst

  
Rajesh  
Authorized Signatory  
(Report No: 400000110)



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235726400000111F	Date :	14-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	04-02-2026 16:00 to 05-02-2026 16:00
Point of Collection :	Kayad Village [26°31'44"N, 74°41'16.5"E]	Date of Receipt :	07-02-2026
Date of Test/Analysis :	07-02-2026 to 13-02-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Prakash Shama	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400
2	Carbon Monoxide [microgram/m <sup>3</sup> ]	310	TTH/AAQM/08	2000 (8 Hours)
3	Lead [microgram/m <sup>3</sup> ]	0.13	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	13.1	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part-9) :1974	100 (8 Hours)
6	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	120.81	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	30.81	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m <sup>3</sup> ]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]	66.02	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m <sup>3</sup> ]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m <sup>3</sup> ]	2.5	IS 5182 Part-26 :2020	20.00

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Senior Analyst

Authorized Signatory  
(Report No: TC1235726400000111F)



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JDA/UDH

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
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Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	400000111	Date :	14-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	04-02-2026 16:00 to 05-02-2026 16:00
Point of Collection :	Kayad Village [26°31'44"N, 74°41'16.5"E]	Date of Receipt :	07-02-2026
Date of Test/Analysis :	07-02-2026 to 13-02-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m3]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
13	Benzo (a) Pyrene [ng/m3]	BDL(<1.0)	IS 5182 (Part-12) :2004 RA 2019	1.00

**Notes :-**

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Purnan Kishore  
Senior Analyst

  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: 400000111)



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JDA/UDH

Office : E-65, Chitranganj Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235726400000234F	Date :	08-03-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	24-02-2026 15:14 to 25-02-2026 15:15
Point of Collection :	Near Sub Station	Date of Receipt :	27-02-2026
Date of Test/Analysis :	27-02-2026 to 08-03-2026	Sampling Plan :	IS 5182-2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400
2	Carbon Monoxide [microgram/m <sup>3</sup> ]	360	TTH/AAQM/08	2000 (8 Hours)
3	Lead [microgram/m <sup>3</sup> ]	Less than 0.1	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	15.83	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part-9) :1974 RA 2019	100 (8 Hours)
6	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	148.64	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	32.56	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m <sup>3</sup> ]	6.24	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]	78.85	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Benzene [microgram/m <sup>3</sup> ]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
11	Benzo (a) Pyrene [ng/m <sup>3</sup> ]	BDL(<1.0)	IS 5182 (Part-12) :2004 RA 2019	1.00
12	Arsenic [ng/m <sup>3</sup> ]	BDL(<2.0)	TTH/AAQM/11	6.00
13	Nickel [ng/m <sup>3</sup> ]	Less than 5	IS 5182 Part-26 :2020	20.00

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*Puran Mahi Yogi*  
Puran Mahi Yogi

*Rajesh & Manishwari*  
Rajesh & Manishwari



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Email : team.bdhead@gmail.com

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Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235726400000235F	Date :	06-03-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	24-02-2026 15:15 to 25-02-2026 15:15
Point of Collection :	Near CRF	Date of Receipt :	27-02-2026
Date of Test/Analysis :	27-02-2026 to 06-03-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400
2	Carbon Monoxide [microgram/m <sup>3</sup> ]	380	TTH/AAQM/08	2000 (8 Hours)
3	Lead [microgram/m <sup>3</sup> ]	Less than 0.1	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	15.02	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part-9) : 1974 RA 2019	100 (8 Hours)
6	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	147.16	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	35.26	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m <sup>3</sup> ]	6.34	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	84.55	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Benzene [microgram/m <sup>3</sup> ]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
11	Benzo (a) Pyrene [ng/m <sup>3</sup> ]	BDL(<1.0)	IS 5182 (Part-12) :2004 RA 2019	1.00
12	Arsenic [ng/m <sup>3</sup> ]	BDL(<2.0)	TTH/AAQM/11	6.00
13	Nickel [ng/m <sup>3</sup> ]	Less than 5	IS 5182 Part-26 :2020	20.00

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*Rajesh Maheshwari*

*Rajesh Maheshwari*



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JDA/UDH

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C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235726400000236F	Date :	06-03-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	24-02-2026 15:16 to 25-02-2026 15:16
Point of Collection :	Near ANFO Station	Date of Receipt :	27-02-2026
Date of Test/Analysis :	27-02-2026 to 06-03-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400
2	Carbon Monoxide [microgram/m <sup>3</sup> ]	370	TTH/AAQM/08	2000 (8 Hours)
3	Lead [microgram/m <sup>3</sup> ]	Less than 0.1	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	14.22	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part-9):1974 RA 2019	100 (8 Hours)
6	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	154.24	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	35.81	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m <sup>3</sup> ]	6.94	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]	80.13	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Benzene [microgram/m <sup>3</sup> ]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
11	Benzo (a) Pyrene [ng/m <sup>3</sup> ]	BDL(<1.0)	IS 5182 (Part-12) :2004 RA 2019	1.00
12	Arsenic [ng/m <sup>3</sup> ]	BDL(<2.0)	TTH/AAQM/11	6.00
13	Nickel [ng/m <sup>3</sup> ]	Less than 5	IS 5182 Part-26 :2020	20.00

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Purani Maheshwari

Rajesh Maheshwari



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235726400000237F	Date :	06-03-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	25-02-2026 15:17 to 26-02-2026 15:17
Point of Collection :	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	27-02-2026
Date of Test/Analysis :	27-02-2026 to 06-03-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400
2	Carbon Monoxide [microgram/m3]	280	TTH/AAQM/08	2000 (8 Hours)
3	Lead [microgram/m3]	0.13	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	13.34	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(<20.0)	IS 5182 (Part-9) :1974 RA 2019	100 (8 Hours)
6	Suspended Particulate Matter (SPM) [microgram/m3]	124.82	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	28.35	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	73.73	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Benzene [microgram/m3]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
11	Benzo (a) Pyrene [ng/m3]	BDL(<1.0)	IS 5182 (Part-12) :2004 RA 2019	1.00
12	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
13	Nickel [ng/m3]	Less than 5	IS 5182 Part-26 :2020	20.00

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*Puran*  
**Puran Mai Yogi**

*Rajesh*  
**Rajesh Maheshwari**



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JDA/UDH

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235726400000238F	Date :	06-03-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	25-02-2026 15:17 to 26-02-2026 15:17
Point of Collection :	Gagwana Village (26°31'44.4"N, 74°43'20.1"E)	Date of Receipt :	27-02-2026
Date of Test/Analysis :	27-02-2026 to 06-03-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram Jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400
2	Carbon Monoxide [microgram/m <sup>3</sup> ]	290	TTH/AAQM/08	2000 (8 Hours)
3	Lead [microgram/m <sup>3</sup> ]	0.11	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	13.55	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part-9) : 1974 RA 2019	100 (8 Hours)
6	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	117.76	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	26.74	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m <sup>3</sup> ]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]	63.37	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Benzene [microgram/m <sup>3</sup> ]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
11	Benzo (a) Pyrene [ng/m <sup>3</sup> ]	BDL(<1.0)	IS 5182 (Part-12) : 2004 RA 2019	1.00
12	Arsenic [ng/m <sup>3</sup> ]	BDL(<2.0)	TTH/AAQM/11	6.00
13	Nickel [ng/m <sup>3</sup> ]	Less than 5	IS 5182 Part-26 : 2020	20.00

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Puran Mai Yogi

Rajesh Maheshwari



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JDA/UDH

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C-Scheme, Jaipur - 302001, Rajasthan  
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Website : www.teamtesthouse.com  
Email : team.hdhead@gmail.com

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## TEST REPORT

Report No./ULR No. :	TC1235726400000239F	Date :	06-03-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	25-02-2026 15:18 to 26-02-2026 15:18
Point of Collection :	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Receipt :	27-02-2026
Date of Test/Analysis :	27-02-2026 to 06-03-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400
2	Carbon Monoxide [microgram/m3]	310	TTH/AAQM/08	2000 (8 Hours)
3	Lead [microgram/m3]	0.17	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	13.7	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(<20.0)	IS 5182 (Part-9) :1974 RA 2019	100 (8 Hours)
6	Suspended Particulate Matter (SPM) [microgram/m3]	122.98	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	29.8	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	73.89	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Benzene [microgram/m3]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
11	Benzo (a) Pyrene [ng/m3]	BDL(<1.0)	IS 5182 (Part-12) :2004 RA 2019	1.00
12	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
13	Nickel [ng/m3]	Less than 5	IS 5182 Part-26 :2020	20.00

**Notes -**

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**Puran Mai Yogi**

*Rajesh Maheshwari*  
**Rajesh Maheshwari**



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JDA/UDH

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Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

### RESULTS

S.No	Parameters	Observed Value	Testing Protocol
11	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019
12	Total Suspended Solids [mg/l]	85	IS 3025 (Part 17) : 1984 RA 2017
13	Cobalt [mg/l]	Less than 0.05	3113 -B , APHA 24th Edition
14	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003 RA 2019

Notes >

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*Balram*  
**Balram Agarwal**  
Senior Analyst

*Rajesh*  
**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: TC1235726100000087F)



# TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235726100000087F	Date :	18-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	05-02-2026
Point of Collection :	PW - 3	Date of Receipt :	07-02-2026
Date of Test/Analysis :	07-02-2026 to 18-02-2026	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.63	IS 3025 (Part 11) : 1983 RA 2017
2	Total Hardness [mg/l]	3245.61	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	0.07	IS 3025 (Part 53) : 2003 RA 2019
4	Total Dissolved Solids [mg/l]	8087	IS 3025 (Part 16) : 1984 RA 2017
5	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019
6	Sulphate [mg/l]	1953.8	IS 3025 (Part 24) : 1986 RA 2019
7	Cadmium [mg/l]	Less than 0.001	3113 -B , APHA 24th Edition
8	Lead [mg/l]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019
9	Zinc [mg/l]	0.03	IS 3025 (Part 49) : 1994 RA 2019
10	Alkalinity - T [mg/l]	255	IS 3025 (Part 23) : 1986 RA 2019

Note:

Continue to next page...

*Rajesh*  
**Rajesh Maheshwar**



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JDA/UDH

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C-Scheme, Jaipur - 302001, Rajasthan  
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Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	100000086	Date :	18-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	05-02-2026
Point of Collection :	PW - 2	Date of Receipt :	07-02-2026
Date of Test/Analysis :	07-02-2026 to 18-02-2026	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
16	Total Solids [mg/l]	2639	IS 3025 (part 15) : 1984 RA 2019

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**Balram Agarwal**  
Senior Analyst

  
**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: 100000086 )



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C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
11	Alkalinity - T [mg/l]	484.5	IS 3025 (Part 23) : 1986 RA 2019
12	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019
13	Total Suspended Solids [mg/l]	53	IS 3025 (Part 17) : 1984 RA 2017
14	Cobalt [mg/l]	Less than 0.05	3113 -B , APHA 24th Edition
15	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003 RA 2019

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Senior Analyst

  
**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: TC1235726100000086F )



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## TEST REPORT

Report No./ULR No. :	TC1235726100000086F	Date :	18-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	05-02-2026
Point of Collection :	PW - 2	Date of Receipt :	07-02-2026
Date of Test/Analysis :	07-02-2026 to 18-02-2026	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.01	IS 3025 (Part 11) : 1983 RA 2017
2	Total Hardness [mg/l]	1105.26	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	Less than 0.01	IS 3025 (Part 53) : 2003 RA 2019
4	Chloride [mg/l]	831.66	IS 3025 (Part 32) : 1988 RA 2019
5	Total Dissolved Solids [mg/l]	2586	IS 3025 (Part 16) : 1984 RA 2017
6	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019
7	Sulphate [mg/l]	531.4	IS 3025 (Part 24) : 1986 RA 2019
8	Cadmium [mg/l]	Less than 0.001	3113 -B , APHA 24th Edition
9	Lead [mg/l]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019
10	Zinc [mg/l]	0.03	IS 3025 (Part 49) : 1994 RA 2019

Note:

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*Signature*

**Rajesh Maheshwari**



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C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

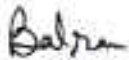
Report No./ULR No. :	100000085	Date :	18-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	05-02-2026
Point of Collection :	PW - 1	Date of Receipt :	07-02-2026
Date of Test/Analysis :	07-02-2026 to 18-02-2026	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
16	Total Solids [mg/l]	2610	IS 3025 (part 15) : 1984 RA 2019

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**Balram Agarwal**  
Senior Analyst

  
**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: 100000085)



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C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
11	Alkalinity - T [mg/l]	544	IS 3025 (Part 23) : 1986 RA 2019
12	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019
13	Total Suspended Solids [mg/l]	64	IS 3025 (Part 17) : 1984 RA 2017
14	Cobalt [mg/l]	Less than 0.05	3113 -B , APHA 24th Edition
15	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003 RA 2019

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*Balram*  
**Balram Agarwal**  
Senior Analyst

*Rajesh*  
**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: TC1235726100000085F )



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C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC123572610000085F	Date :	18-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	05-02-2026
Point of Collection :	PW - 1	Date of Receipt :	07-02-2026
Date of Test/Analysis :	07-02-2026 to 18-02-2026	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.05	IS 3025 (Part 11) : 1983 RA 2017
2	Total Hardness [mg/l]	1280.7	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	0.07	IS 3025 (Part 53) : 2003 RA 2019
4	Chloride [mg/l]	900.15	IS 3025 (Part 32) : 1988 RA 2019
5	Total Dissolved Solids [mg/l]	2546	IS 3025 (Part 16) : 1984 RA 2017
6	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019
7	Sulphate [mg/l]	353.8	IS 3025 (Part 24) : 1986 RA 2019
8	Cadmium [mg/l]	Less than 0.001	3113 -B , APHA 24th Edition
9	Lead [mg/l]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019
10	Zinc [mg/l]	0.08	IS 3025 (Part 49) : 1994 RA 2019

Note:

Continue to next page...

*Raj*  
**Rajesh Maheshwari**



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	100001357	Date :	30-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	30-11-2025
Point of Collection :	PW - 5	Date of Receipt :	01-12-2025
Date of Test/Analysis :	01-12-2025 to 30-12-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
15	Chloride [mg/l]	1990.04	IS 3025 (Part 32) : 1988 RA 2019
16	Total Solids [mg/l]	6656	IS 3025 (part 15) : 1984 RA 2019

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*Balram*  
Balram Agarwal  
Senior Analyst

*Puran*  
Puran Mal Yogi  
Authorized Signatory  
(Report No: 100001357)



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JDA/UDH

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235725100001357F	Date :	30-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	30-11-2025
Point of Collection :	PW - 5	Date of Receipt :	01-12-2025
Date of Test/Analysis :	01-12-2025 to 30-12-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.65	IS 3025 (Part 11) : 1983 RA 2017
2	Total Hardness [mg/l]	2075.29	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	Less than 0.01	IS 3025 (Part 53) : 2003 RA 2019
4	Total Dissolved Solids [mg/l]	6552	IS 3025 (Part 16) : 1984 RA 2017
5	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019
6	Sulphate [mg/l]	1598.75	IS 3025 (Part 24) : 1986 RA 2019
7	Cadmium [mg/l]	Less than 0.001	3113 -B , APHA 24th Edition
8	Lead [mg/l]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019
9	Zinc [mg/l]	0.02	IS 3025 (Part 49) : 1994 RA 2019
10	Alkalinity - T [mg/l]	447.02	IS 3025 (Part 23) : 1986 RA 2019
11	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019
12	Total Suspended Solids [mg/l]	104	IS 3025 (Part 17) : 1984 RA 2017
13	Cobalt [mg/l]	Less than 0.05	3113 -B , APHA 24th Edition
14	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003 RA 2019

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*Puran Mai Yogi*



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JDA/VEDH

Office : E-65, Chitrang Marg,  
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Phone : +91 9377210064, 9414077379,  
Website : www.teamtesthouse.com,  
Email : team.td@rediffmail.com

Laboratory : G1-594, HICO Industrial Area,  
Sitapura, Jaipur - 302023, Rajasthan  
Phone : +91 9460271039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : market@teamtesthouse.com

## TEST REPORT

Report No./LR No.:	100001356	Date :	30-12-2025
Issued To :	M/S Hindustan Zinc Limited (Kayad Mines), Village Kayad, District Ajmer (Rajasthan)	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	30-11-2025
Point of Collection	PW-4	Date of Receipt :	01-12-2025
Date of Test/Analysis :	01-12-2025 to 30-12-2025	Sampling Plan :	IS 3025:1987 (Part 1) RA-2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Sitaram Jodgi
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
15	Sulphate (mg/l)	2106.75	IS 3025 (Part 24) ; 1986 RA-2019
16	Total Solids (mg/l)	5637	IS 3025 (part 15) ; 1984 RA-2019

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*Balram*  
**Balram Rajarwal**  
Senior Analyst

*Puran*  
**Puran (Mst) Yogi**  
Authorized Signatory  
(Report No: 100001356)



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## TEST REPORT

Report No./ULR No. :	TC1235725100001356F	Date :	30-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	30-11-2025
Point of Collection :	PW - 4	Date of Receipt :	01-12-2025
Date of Test/Analysis :	01-12-2025 to 30-12-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.86	IS 3025 (Part 11) : 1983 RA 2017
2	Total Hardness [mg/l]	1767.45	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	0.06	IS 3025 (Part 53) : 2003 RA 2019
4	Chloride [mg/l]	1043.11	IS 3025 (Part 32) : 1988 RA 2019
5	Total Dissolved Solids [mg/l]	5569	IS 3025 (Part 16) : 1984 RA 2017
6	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019
7	Cadmium [mg/l]	Less than 0.001	3113 -B , APHA 24th Edition
8	Lead [mg/l]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019
9	Zinc [mg/l]	0.05	IS 3025 (Part 49) : 1994 RA 2019
10	Alkalinity - T [mg/l]	625	IS 3025 (Part 23) : 1986 RA 2019
11	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019
12	Total Suspended Solids [mg/l]	68	IS 3025 (Part 17) : 1984 RA 2017
13	Cobalt [mg/l]	Less than 0.05	3113 -B , APHA 24th Edition
14	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003 RA 2019

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*Puran Mai Yogi*



# TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)

Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

RSPCB

ISO 9001:2015,

ISO 14001:2015,

ISO 45001:2018 (OH&S)

JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	100001355	Date :	30-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	30-11-2025
Point of Collection :	PW - 3	Date of Receipt :	01-12-2025
Date of Test/Analysis :	01-12-2025 to 30-12-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Sitaram Jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
15	Chloride [mg/l]	2593.17	IS 3025 (Part 32) : 1988 RA 2019
16	Total Solids [mg/l]	7670	IS 3025 (part 15) : 1984 RA 2019

### Notes :-

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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

*Balram*  
**Balram Agarwal**  
Senior Analyst

*Puran Msi Yogi*  
**Puran Msi Yogi**  
Authorized Signatory  
(Report No: 100001355)



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Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235725100001355F	Date :	30-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	30-11-2025
Point of Collection :	PW - 3	Date of Receipt :	01-12-2025
Date of Test/Analysis :	01-12-2025 to 30-12-2025	Sampling Plan :	IS 3025:1987(Part 1)RA:2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.62	IS 3025 (Part 11) : 1983 RA 2017
2	Total Hardness [mg/l]	2647.06	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	Less than 0.01	IS 3025 (Part 53) : 2003 RA 2019
4	Total Dissolved Solids [mg/l]	7531	IS 3025 (Part 16) : 1984 RA 2017
5	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019
6	Sulphate [mg/l]	More than 2000	IS 3025 (Part 24) : 1986 RA 2019
7	Cadmium [mg/l]	Less than 0.001	3113 -B , APHA 24th Edition
8	Lead [mg/l]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019
9	Zinc [mg/l]	0.03	IS 3025 (Part 49) : 1994 RA 2019
10	Alkalinity - T [mg/l]	357.2	IS 3025 (Part 23) : 1986 RA 2019
11	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019
12	Total Suspended Solids [mg/l]	139	IS 3025 (Part 17) : 1984 RA 2017
13	Cobalt [mg/l]	Less than 0.05	3113 -B , APHA 24th Edition
14	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003 RA 2019

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*Pujan Mai Yogi*  
Pujan Mai Yogi



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Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

**TEST REPORT**

Report No./ULR No. :	100001354	Date :	30-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	30-11-2025
Point of Collection :	PW - 2	Date of Receipt :	01-12-2025
Date of Test/Analysis :	01-12-2025 to 30-12-2025	Sampling Plan :	IS 3025:1967(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fil for testing

**RESULTS**

S.No	Parameters	Observed Value	Testing Protocol
16	Total Solids [mg/l]	2537	IS 3025 (part 15) : 1984 RA 2019

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**Balram Agarwal**  
Senior Analyst

  
**Purnima Yogi**  
Authorized Signatory  
(Report No: 100001354 )



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Email : team.bdhead@gmail.com

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Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235725100001354F	Date :	30-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	30-11-2025
Point of Collection :	PW - 2	Date of Receipt :	01-12-2025
Date of Test/Analysis :	01-12-2025 to 30-12-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.79	IS 3025 (Part 11) : 1983 RA 2017
2	Total Hardness [mg/l]	1372.55	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	Less than 0.01	IS 3025 (Part 53) : 2003 RA 2019
4	Chloride [mg/l]	848.67	IS 3025 (Part 32) : 1988 RA 2019
5	Total Dissolved Solids [mg/l]	2472	IS 3025 (Part 16) : 1984 RA 2017
6	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019
7	Sulphate [mg/l]	605.75	IS 3025 (Part 24) : 1986 RA 2019
8	Cadmium [mg/l]	Less than 0.001	3113 -B , APHA 24th Edition
9	Lead [mg/l]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019
10	Zinc [mg/l]	0.04	IS 3025 (Part 49) : 1994 RA 2019
11	Alkalinity - T [mg/l]	354.32	IS 3025 (Part 23) : 1986 RA 2019
12	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019
13	Total Suspended Solids [mg/l]	65	IS 3025 (Part 17) : 1984 RA 2017
14	Cobalt [mg/l]	Less than 0.05	3113 -B , APHA 24th Edition
15	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003 RA 2019

Notes :-

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Purnan Mal Yogi



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JNA/CDH

Office : E-05, Chitrangad Marg,  
C. Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 9377210064, 9314077379,  
Website : www.teamtesthouse.com  
Email : team.bithead@gmail.com

Laboratory : G1-584, RICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : market@lab@teamtesthouse.com

## TEST REPORT

Report No./JLR No.:	100001353	Date :	30-12-2025
Issued To :	M/S Hindustan Zinc Limited (Kajad Mines) Village Kajad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	30-11-2025
Point of Collection	PW - 1	Date of Receipt :	01-12-2025
Date of Test/Analysis :	01-12-2025 to 30-12-2025	Sampling Plan :	IS 3025:1987(Part 1) RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Sifarah jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fa for testing

### RESULTS

S.No	Parameters	Observed Value	Testing Protocol
15	Total Solids (mg/l)	2418	IS 3025 (part 15): 1984 RA 2019

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Balram Agarwal  
Senior Analyst

Purnima Yogi  
Authorized Signatory  
(Report No: 100001353)



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C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
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Email : team.bdhead@gmail.com

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Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235725100001353F	Date :	30-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	30-11-2025
Point of Collection :	PW - 1	Date of Receipt :	01-12-2025
Date of Test/Analysis :	01-12-2025 to 30-12-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	8.02	IS 3025 (Part 11) : 1983 RA 2017
2	Total Hardness [mg/l]	1333.33	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	0.08	IS 3025 (Part 53) : 2003 RA 2019
4	Chloride [mg/l]	820.38	IS 3025 (Part 32) : 1988 RA 2019
5	Total Dissolved Solids [mg/l]	2369	IS 3025 (Part 16) : 1984 RA 2017
6	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019
7	Sulphate [mg/l]	325.45	IS 3025 (Part 24) : 1986 RA 2019
8	Cadmium [mg/l]	Less than 0.001	3113 -B , APHA 24th Edition
9	Lead [mg/l]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019
10	Zinc [mg/l]	0.06	IS 3025 (Part 49) : 1994 RA 2019
11	Alkalinity - T [mg/l]	515	IS 3025 (Part 23) : 1986 RA 2019
12	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019
13	Total Suspended Solids [mg/l]	49	IS 3025 (Part 17) : 1984 RA 2017
14	Cobalt [mg/l]	Less than 0.05	3113 -B , APHA 24th Edition
15	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003 RA 2019

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*Purushotam Yogi*  
**Purushotam Yogi**

## Hindustan Zinc Limited

## Kayad Mine

## Water Level of Piezometers &amp; Open Wells (Oct-25 to Mar-26)

Annexure-IV

S.No	Source Code	Latitude	Longitude	Oct-25	Nov-25	Dec-25	Jan-26	Feb-26	Mar-26
1	P-1	N26°31'44.1"	E74°41'19.2"	7.1	8.9	12.3	13.0	13.2	15.1
2	P-2	N26°31'56.9"	E74°41'41.1"	8.6	9.4	11.8	11.6	11.5	17.6
3	P-3	N26°32'10.0"	E74°41'44.4"	6.5	6.8	7.1	7.5	7.8	7.7
4	P-4	26°32'02.0"	74°41'45.2"	9.6	9.9	10.2	10.7	10.5	11.2
5	P-5	26°31'40.3"	74°41'29.1"	4.1	4.9	5.4	5.7	6	6.6
6	W-1	N26°33'25.7"	E74°41'45.9"	2.1	2.7	3	3.4	9.2	2.5
7	W-2	N26°32'48.6"	E74°42'24.8"	1.8	2.9	3.5	3.9	3.5	5.3
8	W-3	N26°32'08.3"	E74°42'27.7"	3.1	3.6	4.1	4.9	4	5.2
9	W-4	N26°31'11.7"	E74°41'02.7"	2.7	3.3	3.7	4.1	5.4	6.1
10	W-5	N26°31'52.7"	E74°41'36.0"	4.5	5.8	9.7	10.2	7.6	9.5
11	W-6	N26°31'38.7"	E74°41'11.3"	1.1	2.1	2.5	3.3	7.9	6.6



# Hindustan Zinc Limited

## Kayad Mine

Piezometers Code		Piezowell Monitoring Report (Oct-25 to Mar-26)										Annexure-V			
		P-1		P-2		P-3		P-4		P-5		Annexure-V			
Location with land mark	Piezometers-1, near VTC- HZL	Near mine damped area, HZL, fuel pump	Plantation area, nursery, near other collapsed bore well	New drilled bore well, near ANFO Mixing plant, HZL	New drilled bore well, DG Set area										
Parameter	Nov-25	Feb-26	Nov-25	Feb-26	Nov-25	Feb-26	Nov-25	Feb-26	Nov-25	Feb-26	Nov-25	Feb-26	Nov-25	Feb-26	
Ph	8.02	7.05	7.79	7.01	7.62	7.63	7.86	7.85	7.65	7.73					
Hardness	1333.33	1288.70	1372.55	1105.26	2647.06	3245.61	1767.45	1754.39	2075.29	1842.11					
Iron	0.08	0.07	<0.01	<0.01	<0.01	0.07	0.06	0.04	<0.01	<0.01					
TDS	2369.00	2546.00	2472.00	2586.00	7531.00	8087.00	5569.00	5232.00	6552.00	6793.00					
Copper	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01					
Sulphate	325.45	353.80	505.75	531.40	>2000	1953.80	2106.75	1947.80	1598.65	1673.50					
Cadmium	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001					
Lead	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01					
Zinc	0.06	0.08	0.04	0.03	0.03	0.03	0.05	0.02	0.02	<0.01					
Alkalinity	515.00	544.00	354.32	484.50	357.20	255.00	625.00	612.00	447.02	408.00					
Cynide	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04					
TSS	49.00	64.00	65.00	53.00	139.00	85.00	68.00	57.00	104.00	92.00					
Cobalt	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05					
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01					
Chloride	820.38	900.15	848.67	831.66	2593.17	2935.16	1043.11	1174.10	1990.04	2054.68					
Total Solid	2418.00	2640.00	2537.00	2639.00	7670.00	8172.00	5637.00	5289.00	6656.00	6885.00					





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Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	200000220	Date :	21-03-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	11-03-2026
Point of Collection :	Mine Water-1st	Date of Receipt :	13-03-2026
Date of Test/Analysis :	13-03-2026 to 21-03-2026	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
18	Chloride as Cl [mg/l]	425.61	4500- Cl- B , APHA 24th Edition	-
19	Sulphate [mg/l]	576.45	4500-SO4-E , APHA 24th Edition	Not Specified

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Senior Analyst

  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: 200000220 )



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Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235726200000220F	Date :	21-03-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	11-03-2026
Point of Collection :	Mine Water-1st	Date of Receipt :	13-03-2026
Date of Test/Analysis :	13-03-2026 to 21-03-2026	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Dissolved Solids [mg/l]	3827	2540- C , APHA 24th Edition	Not Specified
2	Total Solids [mg/l]	3856	2540-B , APHA 24th Edition	-
3	Total Suspended Solids [mg/l]	29	2540-D , APHA 24th Edition	100
4	Cyanide [mg/l]	Less than 0.04	4500- CN D , APHA 24th Edition	0.2
5	Hardness (total) [mg/l]	485.71	2340- C , APHA 24th Edition	-
6	pH	6.48	4500 H+B , APHA 24th Edition	5.5 - 9.0
7	Arsenic [mg/l]	Less than 0.01	3114- B , APHA 24th Edition	0.2
8	Cadmium [mg/l]	Less than 0.01	3111-B, APHA 24th Edition	2.0
9	Cobalt [mg/l]	Less than 0.01	3111-B, APHA 24th Edition	-
10	Copper [mg/l]	Less than 0.05	3111-B, APHA 24th Edition	3.0
11	Iron [mg/l]	Less than 0.5	3111-B, APHA 24th Edition	3.0
12	Lead [mg/l]	Less than 0.01	3111-B, APHA 24th Edition	0.1
13	Mercury [mg/l]	Less than 0.01	3112- B , APHA 24th Edition	0.01
14	Nickel [mg/l]	0.08	3111-B, APHA 24th Edition	3.0
15	Zinc [mg/l]	2.11	3111-B, APHA 24th Edition	5.0
16	Alkalinity - T [mg/l]	56.28	2320-B , APHA 24th Edition	-
17	Magnesium [mg/l]	69.43	3500-Mg-B , APHA 24th Edition	-

Notes -

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Sunil Kumar

Rajesh Maheshwar



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Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	200000089	Date :	16-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	05-02-2026
Point of Collection :	Mine Water-1st	Date of Receipt :	07-02-2026
Date of Test/Analysis :	07-02-2026 to 16-02-2026	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
18	Chloride as Cl [mg/l]	441.96	4500- Cl- B , APHA 24th Edition	-
19	Sulphate [mg/l]	602.75	4500-SO4-E , APHA 24th Edition	Not Specified

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Senior Analyst

  
Rajesh Mishra  
Authorized Signatory  
(Report No: 200000089)



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C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
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Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235726200000089F	Date :	16-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	05-02-2026
Point of Collection :	Mine Water-1st	Date of Receipt :	07-02-2026
Date of Test/Analysis :	07-02-2026 to 16-02-2026	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Dissolved Solids [mg/l]	3967	2540- C , APHA 24th Edition	Not Specified
2	Total Solids [mg/l]	3991	2540-B , APHA 24th Edition	-
3	Total Suspended Solids [mg/l]	24	2540-D , APHA 24th Edition	100
4	Cyanide [mg/l]	Less than 0.04	4500- CN D , APHA 24th Edition	0.2
5	Hardness (total) [mg/l]	534.65	2340- C , APHA 24th Edition	-
6	pH	6.33	4500 H+B , APHA 24th Edition	5.5 - 9.0
7	Arsenic [mg/l]	Less than 0.01	3114- B , APHA 24th Edition	0.2
8	Cadmium [mg/l]	Less than 0.01	3111-B, APHA 24th Edition	2.0
9	Cobalt [mg/l]	Less than 0.01	3111-B, APHA 24th Edition	-
10	Copper [mg/l]	Less than 0.05	3111-B, APHA 24th Edition	3.0
11	Iron [mg/l]	Less than 0.5	3111-B, APHA 24th Edition	3.0
12	Lead [mg/l]	Less than 0.01	3111-B, APHA 24th Edition	0.1
13	Mercury [mg/l]	Less than 0.01	3112- B , APHA 24th Edition	0.01
14	Nickel [mg/l]	Less than 0.05	3111-B, APHA 24th Edition	3.0
15	Zinc [mg/l]	1.96	3111-B, APHA 24th Edition	5.0
16	Alkalinity - T [mg/l]	48.24	2320-B , APHA 24th Edition	-
17	Magnesium [mg/l]	67.36	3500-Mg-B , APHA 24th Edition	-

Notes -

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JDA/UDH

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C-Scheme, Jaipur - 302001, Rajasthan  
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Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	200000029	Date :	22-01-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	10-01-2026
Point of Collection :	Mine Water-1st	Date of Receipt :	12-01-2026
Date of Test/Analysis :	12-01-2026 to 22-01-2026	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
18	Chloride as Cl [mg/l]	428.7	4500- Cl- B , APHA 24th Edition	-
19	Sulphate [mg/l]	587.85	4500-SO4-E , APHA 24th Edition	Not Specified

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Sunil Kumar

  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: 200000029 )



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C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC123572620000029F	Date :	22-01-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	10-01-2026
Point of Collection :	Mine Water-1st	Date of Receipt :	12-01-2026
Date of Test/Analysis :	12-01-2026 to 22-01-2026	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Dissolved Solids [mg/l]	3929	2540- C , APHA 24th Edition	Not Specified
2	Total Solids [mg/l]	3958	2540-B , APHA 24th Edition	-
3	Total Suspended Solids [mg/l]	29	2540-D , APHA 24th Edition	100
4	Cyanide [mg/l]	Less than 0.04	4500- CN D , APHA 24th Edition	0.2
5	Hardness (total) [mg/l]	500	2340- C , APHA 24th Edition	-
6	pH	7.44	4500 H+B , APHA 24th Edition	5.5 - 9.0
7	Arsenic [mg/l]	Less than 0.01	3114- B , APHA 24th Edition	0.2
8	Cadmium [mg/l]	Less than 0.01	3111-B, APHA 24th Edition	2.0
9	Cobalt [mg/l]	Less than 0.01	3111-B, APHA 24th Edition	-
10	Copper [mg/l]	Less than 0.05	3111-B, APHA 24th Edition	3.0
11	Iron [mg/l]	Less than 0.5	3111-B, APHA 24th Edition	3.0
12	Lead [mg/l]	Less than 0.01	3111-B, APHA 24th Edition	0.1
13	Mercury [mg/l]	Less than 0.01	3112- B , APHA 24th Edition	0.01
14	Nickel [mg/l]	0.14	3111-B, APHA 24th Edition	3.0
15	Zinc [mg/l]	1.75	3111-B, APHA 24th Edition	5.0
16	Alkalinity - T [mg/l]	90.64	2320-B , APHA 24th Edition	-
17	Magnesium [mg/l]	60.75	3500-Mg-B , APHA 24th Edition	-

Notes ->

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Sunil Kumar

  
Rajesh Maneshwari



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Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	200001420	Date :	26-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	12-12-2025
Point of Collection :	Washing Pit	Date of Receipt :	13-12-2025
Date of Test/Analysis :	13-12-2025 to 26-12-2025	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
19	Sulphate [mg/l]	636.75	4500-SO4-E , APHA 24th Edition	Not Specified

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Sanjay Kumar

  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: 200001420)



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Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

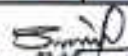
Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235725200001420F	Date :	26-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	12-12-2025
Point of Collection :	Washing Pit	Date of Receipt :	13-12-2025
Date of Test/Analysis :	13-12-2025 to 26-12-2025	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Dissolved Solids [mg/l]	3875	2540- C , APHA 24th Edition	Not Specified
2	Total Suspended Solids [mg/l]	31	2540-D , APHA 24th Edition	100
3	Biochemical Oxygen Demand (BOD) [mg/l]	5.38	5210-B , APHA 24th Edition	30
4	Chemical Oxygen Demand (COD) [mg/l]	21.06	5220-C , APHA 24th Edition	250
5	Cyanide [mg/l]	Less than 0.04	4500- CN D , APHA 24th Edition	0.2
6	Hardness (total) [mg/l]	500	2340- C , APHA 24th Edition	-
7	pH	7.44	4500 H+B , APHA 24th Edition	5.5 - 9.0
8	Arsenic [mg/l]	Less than 0.01	3114- B , APHA 24th Edition	0.2
9	Cadmium [mg/l]	Less than 0.01	3111-B, APHA 24th Edition	2.0
10	Chromium Total [mg/l]	Less than 0.01	3111-B, APHA 24th Edition	2.0
11	Cobalt [mg/l]	Less than 0.01	3111-B, APHA 24th Edition	-
12	Copper [mg/l]	0.05	3111-B, APHA 24th Edition	3.0
13	Iron [mg/l]	Less than 0.5	3111-B, APHA 24th Edition	3.0
14	Lead [mg/l]	Less than 0.01	3111-B, APHA 24th Edition	0.1
15	Mercury [mg/l]	Less than 0.01	3112- B , APHA 24th Edition	0.01
16	Zinc [mg/l]	2.37	3111-B, APHA 24th Edition	5.0
17	Oil & Grease [mg/l]	Less than 5	5520- B , APHA 24th Edition	10
18	Magnesium [mg/l]	59.56	3500-Mg-B , APHA 24th Edition	-

  
Sunil Kumar

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Rajesh Maheshwari



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

**TEST REPORT**

Report No./ULR No. :	200001295	Date :	01-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	12-11-2025
Point of Collection :	Mine Water-1st	Date of Receipt :	16-11-2025
Date of Test/Analysis :	16-11-2025 to 01-12-2025	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

**RESULTS**

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
18	Chloride as Cl [mg/l]	489.72	4500- Cl- B , APHA 24th Edition	-
19	Sulphate [mg/l]	621.29	4500-SO4-E , APHA 24th Edition	Not Specified

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**Sunil Kumar**  
Senior Analyst

**Rajesh Maheshwari**  
Authorized Signatory  
(Report No. 200001295)



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JDA/UDH

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.hdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	25200001295	Date :	01-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	12-11-2025
Point of Collection :	Mine Water-1st	Date of Receipt :	16-11-2025
Date of Test/Analysis :	16-11-2025 to 01-12-2025	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Dissolved Solids [mg/l]	3937	2540- C , APHA 24th Edition	Not Specified
2	Total Solids [mg/l]	3966	2540-B , APHA 24th Edition	-
3	Total Suspended Solids [mg/l]	29	2540-D , APHA 24th Edition	100
4	Cyanide [mg/l]	Less than 0.04	4500- CN D , APHA 24th Edition	0.2
5	Hardness (total) [mg/l]	553.4	2340- C , APHA 24th Edition	-
6	pH	7.34	4500 H+B , APHA 24th Edition	5.5 - 9.0
7	Arsenic [mg/l]	Less than 0.01	3114- B , APHA 24th Edition	0.2
8	Cadmium [mg/l]	Less than 0.01	3111-B, APHA 24th Edition	2.0
9	Cobalt [mg/l]	Less than 0.01	3111-B, APHA 24th Edition	-
10	Copper [mg/l]	Less than 0.05	3111-B, APHA 24th Edition	3.0
11	Iron [mg/l]	Less than 0.5	3111-B, APHA 24th Edition	3.0
12	Lead [mg/l]	Less than 0.01	3111-B, APHA 24th Edition	0.1
13	Mercury [mg/l]	Less than 0.01	3112- B , APHA 24th Edition	0.01
14	Nickel [mg/l]	0.07	3111-B, APHA 24th Edition	3.0
15	Zinc [mg/l]	1.76	3111-B, APHA 24th Edition	5.0
16	Alkalinity - T [mg/l]	72.72	2320-B , APHA 24th Edition	-
17	Magnesium [mg/l]	54.26	3500-Mg-B , APHA 24th Edition	-

Notes -

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Sunil Kumar

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Rajesh Maheshwari



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JDA/UDH

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : GI-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	200001143	Date :	27-10-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	08-10-2025
Point of Collection :	Mine Water-1st	Date of Receipt :	10-10-2025
Date of Test/Analysis :	10-10-2025 to 27-10-2025	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
18	Chloride as Cl [mg/l]	454.65	4500- Cl- B , APHA 24th Edition	-
19	Sulphate [mg/l]	656.75	4500-SO4-E , APHA 24th Edition	Not Specified

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**Sunil Kumar**  
Senior Analyst

**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: 200001143 )



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Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	25200001143	Date :	27-10-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	08-10-2025
Point of Collection :	Mine Water-1st	Date of Receipt :	10-10-2025
Date of Test/Analysis :	10-10-2025 to 27-10-2025	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Dissolved Solids [mg/l]	3872	2540- C , APHA 24th Edition	Not Specified
2	Total Solids [mg/l]	3896	2540-B , APHA 24th Edition	-
3	Total Suspended Solids [mg/l]	24	2540-D , APHA 24th Edition	100
4	Cyanide [mg/l]	Less than 0.04	4500- CN D , APHA 24th Edition	0.2
5	Hardness (total) [mg/l]	544.55	2340- C , APHA 24th Edition	-
6	pH	7.41	4500 H+B , APHA 24th Edition	5.5 - 9.0
7	Arsenic [mg/l]	Less than 0.01	3114- B , APHA 24th Edition	0.2
8	Cadmium [mg/l]	Less than 0.01	3111-B, APHA 24th Edition	2.0
9	Cobalt [mg/l]	Less than 0.01	3111-B, APHA 24th Edition	-
10	Copper [mg/l]	0.05	3111-B, APHA 24th Edition	3.0
11	Iron [mg/l]	Less than 0.5	3111-B, APHA 24th Edition	3.0
12	Lead [mg/l]	Less than 0.01	3111-B, APHA 24th Edition	0.1
13	Mercury [mg/l]	Less than 0.01	3112- B , APHA 24th Edition	0.01
14	Nickel [mg/l]	0.07	3111-B, APHA 24th Edition	3.0
15	Zinc [mg/l]	2.19	3111-B, APHA 24th Edition	5.0
16	Alkalinity - T [mg/l]	90.64	2320-B , APHA 24th Edition	-
17	Magnesium [mg/l]	45.71	3500-Mg-B , APHA 24th Edition	-

Notes :-

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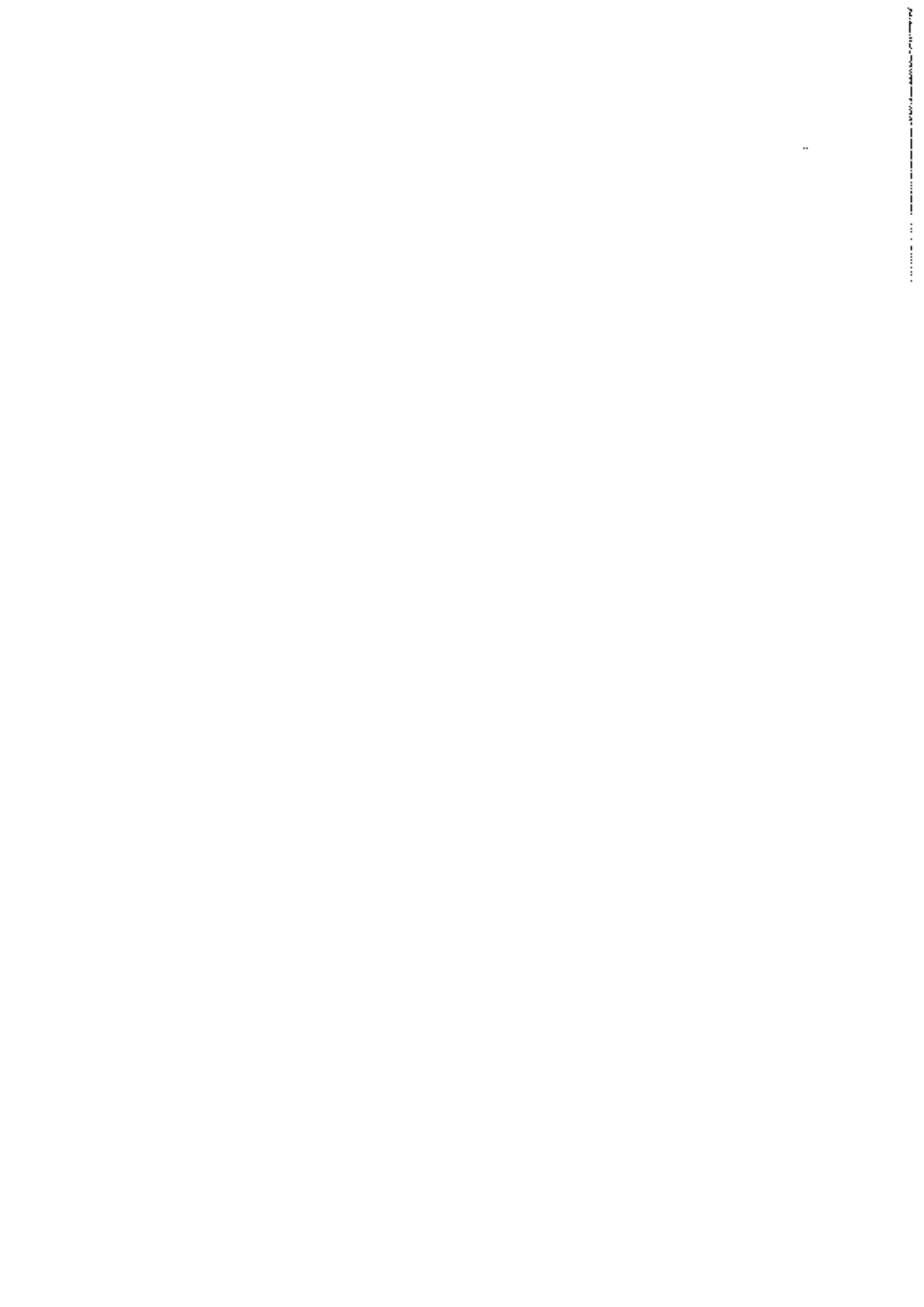


Hindustan zinc limited

Kayad mines

Mine Pond pH & Turbidity (Oct-25 to Mar-26)

Mine Pond pH & Turbidity (Oct-25 to Mar-26)												Annexure-III(A)		
Month	pH	Turbidity	Month	pH	Turbidity	Month	pH	Turbidity	Month	pH	Turbidity	Month	pH	Turbidity
01/10/2025	7.9	7.2	01/11/2025	7.8	2.4	01/12/2025	6.9	5.4	01/01/2026	6.5	6.8	01/02/2026	6.8	7.2
02/10/2025	7.6	7.2	02/11/2025	7.6	3.4	02/12/2025	7.1	4.2	02/01/2026	6.8	6.9	02/02/2026	6.1	6.6
03/10/2025	7.1	7.2	03/11/2025	7.3	5.7	03/12/2025	7.1	5.7	03/01/2026	6.4	6.7	03/02/2026	5.9	9.8
04/10/2025	6.9	6.6	04/11/2025	7.1	4.7	04/12/2025	7.2	5.8	04/01/2026	6.5	6.8	04/02/2026	5.4	6.7
05/10/2025	6.8	5.8	05/11/2025	7.4	4.8	05/12/2025	6.3	5.3	05/01/2026	6.6	5.8	05/02/2026	7.2	6.4
06/10/2025	6.9	5.8	06/11/2025	7.4	4.2	06/12/2025	6.8	5.1	06/01/2026	6.9	5.8	06/02/2026	6.8	7.1
07/10/2025	7.3	4.7	07/11/2025	7.7	3.4	07/12/2025	6.1	7.3	07/01/2026	7.2	4.7	07/02/2026	6.8	6.2
08/10/2025	6.6	4.8	08/11/2025	6.0	5.4	08/12/2025	5.9	6.4	08/01/2026	7.4	4.8	08/02/2026	6.3	6.4
09/10/2025	7.7	7.3	09/11/2025	8.1	5.4	09/12/2025	6.9	6.9	09/01/2026	6.9	5.3	09/02/2026	7.2	7.1
10/10/2025	7.5	6.4	10/11/2025	8.2	5.9	10/12/2025	9.5	6.6	10/01/2026	6.4	5.6	10/02/2026	7.0	7.5
11/10/2025	7.8	6.0	11/11/2025	7.8	6.2	11/12/2025	7.7	5.9	11/01/2026	6.7	5.3	11/02/2026	7.1	6.9
12/10/2025	7.8	6.5	12/11/2025	7.4	7.1	12/12/2025	7.5	5.6	12/01/2026	6.5	5.4	12/02/2026	7.3	6.1
13/10/2025	6.6	6.2	13/11/2025	7.2	7.2	13/12/2025	7.4	6.8	13/01/2026	7.4	7.9	13/02/2026	7.1	5.1
14/10/2025	7.1	5.6	14/11/2025	6.6	5.1	14/12/2025	7.0	6.4	14/01/2026	7.7	6.6	14/02/2026	7.5	4.2
15/10/2025	6.9	5.3	15/11/2025	6.6	6.7	15/12/2025	7.1	3.4	15/01/2026	7.5	2.4	15/02/2026	7.4	4.2
16/10/2025	7.3	5.8	16/11/2025	6.7	6.9	16/12/2025	6.9	5.4	16/01/2026	7.1	3.4	16/02/2026	7.0	6.5
17/10/2025	6.6	4.8	17/11/2025	7.4	6.8	17/12/2025	7.2	6.8	17/01/2026	7.4	3.4	17/02/2026	7.7	5.9
18/10/2025	7.9	5.9	18/11/2025	7.4	5.4	18/12/2025	6.7	7.2	18/01/2026	7.0	6.4	18/02/2026	7.6	6.6
19/10/2025	7.7	5.1	19/11/2025	8.3	6.9	19/12/2025	7.0	7.5	19/01/2026	7.3	8.8	19/02/2026	7.0	6.7
20/10/2025	7.6	6.8	20/11/2025	7.2	6.5	20/12/2025	6.7	7.9	20/01/2026	7.4	3.8	20/02/2026	7.1	6.8
21/10/2025	7.0	2.4	21/11/2025	6.5	5.0	21/12/2025	7.9	7.6	21/01/2026	7.4	4.7	21/02/2026	7.4	7.1
22/10/2025	7.2	5.3	22/11/2025	7.5	4.8	22/12/2025	7.7	5.8	22/01/2026	3.4	4.8	22/02/2026	7.4	7.5
23/10/2025	6.5	5.1	23/11/2025	7.2	4.2	23/12/2025	7.6	5.3	23/01/2026	5.4	7.5	23/02/2026	6.4	4.7
24/10/2025	7.5	5.1	24/11/2025	7.2	6.0	24/12/2025	6.8	5.4	24/01/2026	7.0	3.4	24/02/2026	6.6	4.8
25/10/2025	7.1	4.2	25/11/2025	6.9	7.1	25/12/2025	6.9	7.9	25/01/2026	7.4	9.4	25/02/2026	7.2	5.3
26/10/2025	6.7	4.2	26/11/2025	7.2	7.5	26/12/2025	7.3	8.2	26/01/2026	7.0	6.8	26/02/2026	7.0	7.8
27/10/2025	7.4	2.4	27/11/2025	7.5	7.8	27/12/2025	6.6	4.8	27/01/2026	7.9	7.2	27/02/2026	7.2	5.8
28/10/2025	6.8	3.4	28/11/2025	7.5	6.9	28/12/2025	7.7	4.2	28/01/2026	7.3	7.1	28/02/2026	6.4	5.3
29/10/2025	6.6	5.7	29/11/2025	7.4	5.2	29/12/2025	6.6	6.8	29/01/2026	7.5	6.8	29/02/2026	6.6	5.1
30/10/2025	6.4	5.8	30/11/2025	7.2	5.5	30/12/2025	6.8	7.1	30/01/2026	7.4	6.4	30/02/2026	6.3	7.3
31/10/2025	6.4	6.1	31/12/2025	6.6	6.7	31/01/2026	6.8	6.7	31/02/2026	6.8	6.7	31/03/2026	6.7	6.9



HINDUSTAN ZINC LIMITED

KAYAD mine

Parameters Month	TDS	TS	Temperature (°C)	Cyanide	Hardness	pH	Ammonia	Cadmium	Cobalt	Copper	Iron	Lead	Manganese	Nickel	Zinc	Alkalinity	Anions (µg/l)		
																	Fluoride	Chloride	Sulfate
Oct-25	3872.00	3696.00	24.00	<0.04	844.55	7.41	<0.01	<0.01	<0.01	<0.05	<0.50	<0.01	<0.01	0.07	2.19	80.64	45.71	454.65	666.75
Nov-25	3037.00	3008.00	20.00	<0.04	653.40	7.34	<0.01	<0.01	<0.01	<0.05	<0.5	<0.01	<0.01	0.07	1.76	72.72	54.36	489.72	621.20
Dec-25	3672.00	3696.00	24.00	<0.04	644.55	7.41	<0.01	<0.01	<0.01	0.05	<0.5	<0.01	<0.01	0.07	2.30	80.64	45.71	454.61	656.70
Jan-26	3529.00	3558.00	28.00	<0.04	500	7.44	<0.01	<0.01	<0.01	<0.05	<0.5	<0.01	<0.01	0.14	1.75	80.64	60.76	428.9	487.80
Feb-26	3967.00	3991.00	24.00	<0.04	934.05	6.51	<0.01	<0.01	<0.01	<0.05	<0.5	<0.01	<0.01	<0.09	1.96	48.24	67.36	441.96	603.75
Mar-26	3827.00	3856.00	29.00	<0.04	485.71	8.48	<0.01	<0.01	<0.01	<0.05	<0.5	<0.01	<0.01	<0.25	0.08	58.28	69.43	425.61	676.45



# TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)

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JDA/UDH

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	600000220	Date :	20-03-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	10-03-2026 10:55 to 11-03-2026 10:55
Point of Collection :	N6 South East Corner	Date of Receipt :	13-03-2026
Date of Test/Analysis :	13-03-2026 to 20-03-2026	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Sitaram Jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time 06:am to 09 pm): Leq [dB(A)]	58.2	IS 9989	75
2	Noise Level (Night Time 09 pm to 06 am) : Leq [dB(A)]	48.9	IS 9989	65

### Notes :-

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Senior Analyst

Authorized Signatory  
(Report No: 600000220 )



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	600000219	Date :	20-03-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	10-03-2026 10:54 to 11-03-2026 10:54
Point of Collection :	N5 West Side Towards Kayad Village	Date of Receipt :	13-03-2026
Date of Test/Analysis :	13-03-2026 to 20-03-2026	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time 06:am to 09 pm): Leq [dB(A)]	55.8	IS 9989	75
2	Noise Level (Night Time 09 pm to 06 am) : Leq [dB(A)]	49.2	IS 9989	65

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Senior Analyst

  
Authorized Signatory  
(Report No: 600000219 )



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	600000218	Date :	20-03-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	10-03-2026 10:53 to 11-03-2026 10:53
Point of Collection :	N4 North West Corner of Mine Boundary	Date of Receipt :	13-03-2026
Date of Test/Analysis :	13-03-2026 to 20-03-2026	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time 06:am to 09 pm): Leq [dB(A)]	57.8	IS 9989	75
2	Noise Level (Night Time 09 pm to 06 am) : Leq [dB(A)]	48.7	IS 9989	65

### Notes :-

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Senior Analyst

  
Authorized Signatory  
(Report No: 600000218 )



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JDA/UDH

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C-Scheme, Jaipur - 302001, Rajasthan  
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Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./JLR No. :	600000217	Date :	20-03-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Almer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	10-03-2026 10:51 to 11-03-2026 10:51
Point of Collection :	N3 North East Corner of Mine Boundary	Date of Receipt :	13-03-2026
Date of Test/Analysis :	13-03-2026 to 20-03-2026	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time 06:am to 09 pm): Leq [dB(A)]	62.5	IS 9989	75
2	Noise Level (Night Time 09 pm to 06 am) : Leq [dB(A)]	53.6	IS 9989	65

**Notes :-**

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*Purani Yogi*  
Senior Analyst

*Rajesh Maheshwari*  
Authorized Signatory  
(Report No: 600000217)



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JDA/UDH

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C-Scheme, Jaipur - 302001, Rajasthan  
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Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	600000216	Date :	20-03-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	10-03-2026 10:50 to 11-03-2026 10:50
Point of Collection :	N2 East Side Boundary Near West Dump	Date of Receipt :	13-03-2026
Date of Test/Analysis :	13-03-2026 to 20-03-2026	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time 06:am to 09 pm): Leq [dB(A)]	61.4	IS 9989	75
2	Noise Level (Night Time 09 pm to 06 am) : Leq [dB(A)]	52.3	IS 9989	65

Notes >

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Senior Analyst

Authorized Signatory  
(Report No: 600000216 )



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Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RJICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	600000215	Date :	20-03-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	10-03-2026 10:49 to 11-03-2026 10:49
Point of Collection :	N1 South West Corner of Mine Boundary	Date of Receipt :	13-03-2026
Date of Test/Analysis :	13-03-2026 to 20-03-2026	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time 06:am to 09 pm): Leq [dB(A)]	59.6	IS 9989	75
2	Noise Level (Night Time 09 pm to 06 am) : Leq [dB(A)]	50.3	IS 9989	65

**Notes :-**

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Senior Analyst

  
Authorized Signatory  
(Report No: 600000215)



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Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.head@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	600000214	Date :	20-03-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	09-03-2026 10:47 to 10-03-2026 10:47
Point of Collection :	near sub station	Date of Receipt :	13-03-2026
Date of Test/Analysis :	13-03-2026 to 20-03-2026	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing


## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time 06:am to 09 pm): Leq [dB(A)]	57.2	IS 9989	75
2	Noise Level (Night Time 09 pm to 06 am) : Leq [dB(A)]	48.4	IS 9989	65

### Notes :-

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Senior Analyst

  
Rajesh Agnihotri  
(Report No: 600000214 )



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C-Scheme, Jaipur - 302001, Rajasthan  
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Email : team.blhead@gmail.com

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Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

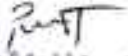
Report No./ULR No. :	600000213	Date :	20-03-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	09-03-2026 10:45 to 10-03-2026 10:46
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	13-03-2026
Date of Test/Analysis :	13-03-2026 to 20-03-2026	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time 06 am to 10 pm) : Leq [dB(A)]	50.9	IS 9989	55
2	Noise Level (Night Time 10 pm to 06 am) : Leq [dB(A)]	38.5	IS 9989	45

Notes -

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Gurraj Mehta  
Senior Analyst

  
Authorized Signatory  
(Report No: 600000213)



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C-Scheme, Jaipur - 302001, Rajasthan  
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Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	600000212	Date :	20-03-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	09-03-2026 10:45 to 10-03-2026 10:45
Point of Collection :	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	13-03-2026
Date of Test/Analysis :	13-03-2026 to 20-03-2026	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time 06 am to 10 pm) : Leq [dB(A)]	49.5	IS 9989	55
2	Noise Level (Night Time 10 pm to 06 am) : Leq [dB(A)]	39.4	IS 9989	45

**Notes :-**

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Senior Analyst

  
Rajesh Kumar  
Rajesh Kumar  
(Report No: 600000212)



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Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	600000211	Date :	20-03-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	09-03-2026 10:43 to 10-03-2026 10:43
Point of Collection :	Kayad Village [26°31'44."N, 74°41'16.5"E]	Date of Receipt :	13-03-2026
Date of Test/Analysis :	13-03-2026 to 20-03-2026	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time 06 am to 10 pm) ; Leq [dB(A)]	51.2	IS 9989	55
2	Noise Level (Night Time 10 pm to 06 am) ; Leq [dB(A)]	40.6	IS 9989	45

**Notes :-**

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Purni Mai Yogi  
Senior Analyst

  
Authorized Signatory  
(Report No: 600000211)



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Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
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Email : team.bdhead@gmail.com

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Sitapura, Jaipur - 302022, Rajasthan  
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## TEST REPORT

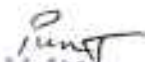
Report No./ULR No. :	TC123572660000089F	Date :	14-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	04-02-2026 16:01 to 05-02-2026 16:01
Point of Collection :	Kayad Village [26°31'44."N, 74°41'16.5"E]	Date of Receipt :	07-02-2026
Date of Test/Analysis :	07-02-2026 to 14-02-2026	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time 06 am to 10 pm) : Leq [dB(A)]	52.8	IS 9989	55
2	Noise Level (Night Time 10 pm to 06 am) : Leq [dB(A)]	41.7	IS 9989	45

### Notes ->

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Purnima Singh  
Senior Analyst

  
Rajesh K. Shrivastava  
Authorized Signatory

(Report No: TC123572660000089F )



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Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-554, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC123572660000090F	Date :	14-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	04-02-2026 16:03 to 05-02-2026 16:03
Point of Collection :	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	07-02-2026
Date of Test/Analysis :	07-02-2026 to 14-02-2026	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krasha Muran
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time 06 am to 10 pm) ; Leq [dB(A)]	51.9	IS 9989	55
2	Noise Level (Night Time 10 pm to 06 am) ; Leq [dB(A)]	42.7	IS 9989	45

Notes -

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Senior Analyst

  
Authorized Signatory  
(Report No: TC123572660000090F)



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C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

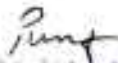
Report No./ULR No.:	TC123572660000091F	Date :	14-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	04-02-2026 16:03 to 05-02-2026 16:03
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	07-02-2026
Date of Test/Analysis :	07-02-2026 to 14-02-2026	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krasha Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time 06 am to 10 pm) : Leq [dB(A)]	50.7	IS 9989	55
2	Noise Level (Night Time 10 pm to 06 am) : Leq [dB(A)]	41.5	IS 9989	45

### Notes :-

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Senior Analyst

  
Rajesh Maheshwari  
Authorized Signatory  
(Report No. TC123572660000091F)



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JDA/UDH

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C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
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Laboratory : G1-584, RICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
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Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC123572660000092F	Date :	14-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	04-02-2026 16:05 to 05-02-2026 16:05
Point of Collection :	near sub station	Date of Receipt :	07-02-2026
Date of Test/Analysis :	07-02-2026 to 14-02-2026	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time 06:am to 09 pm): Leq [dB(A)]	63.7	IS 9989	75
2	Noise Level (Night Time 09 pm to 06 am) : Leq [dB(A)]	55.5	IS 9989	65

### Notes ->

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*Puran Kral Yogi*  
Senior Analyst

*Rajesh Chawar*  
Authorized Signatory  
(Report No. TC123572660000092F)



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C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
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Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No.:	TC123572660000093F	Date :	14-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	05-02-2026 16:06 to 06-02-2026 16:06
Point of Collection :	N1 South West Corner of Mine Boundary	Date of Receipt :	07-02-2026
Date of Test/Analysis :	07-02-2026 to 14-02-2026	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time 06:am to 09 pm): Leq [dB(A)]	64.6	IS 9989	75
2	Noise Level (Night Time 09 pm to 06 am) : Leq [dB(A)]	55.5	IS 9989	65

Notes >

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Puran Khatwari  
Senior Analyst

  
Rajesh Mishra  
Authorized Signatory  
(Report No: TC123572660000093F)



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C-Scheme, Jaipur - 302001, Rajasthan  
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Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC123572660000094F	Date :	14-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	05-02-2026 16:07 to 06-02-2026 16:07
Point of Collection :	N2 East Side Boundary Near West Dump	Date of Receipt :	07-02-2026
Date of Test/Analysis :	07-02-2026 to 14-02-2026	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time 06:am to 09 pm): Leq [dB(A)]	66.5	IS 9989	75
2	Noise Level (Night Time 09 pm to 06 am) : Leq [dB(A)]	57.4	IS 9989	65

Notes :-

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Purnima Mishra  
Senior Analyst

  
Rajesh Chhabra  
Authorized Signatory  
(Report No: TC123572660000094F)



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Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC123572660000095F	Date :	14-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	05-02-2026 16:08 to 06-02-2026 16:09
Point of Collection :	N3 North East Corner of Mine Boundary	Date of Receipt :	07-02-2026
Date of Test/Analysis :	07-02-2026 to 14-02-2026	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time 06:am to 09 pm): Leq [dB(A)]	61.7	IS 9989	75
2	Noise Level (Night Time 09 pm to 06 am) : Leq [dB(A)]	52.6	IS 9989	65

### Notes :-

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Rajesh Mishra  
Senior Analyst

  
Purnima Bhat  
Authorized Signatory  
(Report No: TC123572660000095F )



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Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC123572660000096F	Date :	14-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	05-02-2026 16:10 to 06-02-2026 16:10
Point of Collection :	N4 North West Corner of Mine Boundary	Date of Receipt :	07-02-2026
Date of Test/Analysis :	07-02-2026 to 14-02-2026	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time 06:am to 09 pm): Leq [dB(A)]	61.9	IS 9989	75
2	Noise Level (Night Time 09 pm to 06 am) : Leq [dB(A)]	50.7	IS 9989	65

### Notes :-

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Puran K. Singh  
Senior Analyst

  
Rajesh Choudhary  
Authorized Signatory

(Report No: TC123572660000096F)



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JDA/UDH

Office : E-65, Chltranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.tblhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No.:	TC123572660000097F	Date :	14-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	05-02-2026 16:11 to 06-02-2026 16:11
Point of Collection :	N5 West Side Towards Kayad Village	Date of Receipt :	07-02-2026
Date of Test/Analysis :	07-02-2026 to 14-02-2026	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time 06:am to 09 pm): Leq [dB(A)]	57.7	IS 9989	75
2	Noise Level (Night Time 09 pm to 06 am) : Leq [dB(A)]	46.6	IS 9989	65

### Notes :-

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*Pure Pure Togi*  
Senior Analyst

*Rajesh Kumar Chawari*  
Authorized Signatory  
(Report No: TC123572660000097F )



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JDA/UDH

Office : E-65, Chitranganj Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC123572660000098F	Date :	14-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	05-02-2026 16:12 to 06-02-2026 16:12
Point of Collection :	N6 South East Corner	Date of Receipt :	07-02-2026
Date of Test/Analysis :	07-02-2026 to 14-02-2026	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

### RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time 06:am to 09 pm): Leq [dB(A)]	62.5	IS 9989	75
2	Noise Level (Night Time 09 pm to 06 am) : Leq [dB(A)]	53.4	IS 9989	65

**Notes :-**

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Puroo Malhotra  
Senior Analyst

  
R. S. Signatory  
Authorized Signatory  
(Report No: TC123572660000098F)



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JDA/011

Office : E-65, Chittaranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 9460222039, 9460222049  
Website : www.teamtesthouse.com  
Email : team.tth@rediffmail.com

Laboratory : G1-584, HICO Industrial Area,  
Shapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049  
Email : director@teamtesthouse.com,  
Email : marketing@teamtesthouse.com

## TEST REPORT

Report No./ILR No.:	TC123572660000032F	Date:	20-01-2026
Issued To:	M/S Hindustan Zinc Limited (Kajadi Mines) Village Kajadi, District Ajmer (Rajasthan),	Type of Unit:	Mines
Type of sample / Discipline:	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring:	09-01-2026 11:48 to 10-01-2026 11:48
Point of Collection:	NB South East Corner	Date of Receipt:	12-01-2026
Date of Test/Analysis:	12-01-2026 to 20-01-2026	Sampling Point:	TTH/NOISE/01
Quantity of Sample:		Sample Collected By:	Rakesh Sharma
Unit's representative:	Mr Prakash Sharma	Condition of Sample:	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time 06:am to 09 pm): Leq [dB(A)]	61.7	IS 9989	75
2	Noise Level (Night Time 09 pm to 06 am): Leq [dB(A)]	52.6	IS 9989	65

### Notes -

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Anand Mal Yogi  
Senior Analyst

Rajesh Maheshwari  
Authorized Signatory  
(Report No: TC123572660000032F)



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JDA/UDH

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC123572660000031F	Date :	20-01-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	09-01-2026 11:44 to 10-01-2026 11:44
Point of Collection :	N5 West Side Towards Kayad Village	Date of Receipt :	12-01-2026
Date of Test/Analysis :	12-01-2026 to 20-01-2026	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time 06:am to 09 pm); Leq [dB(A)]	56.8	IS 9989	75
2	Noise Level (Night Time 09 pm to 06 am) ; Leq [dB(A)]	45.7	IS 9989	65

**Notes -**

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**Puran Yogi**  
Senior Analyst

**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: TC123572660000031F )



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IBAU/DB

Office : E-65, Chitrang Marg,  
C Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 9377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bh@rediffmail.com

Laboratory : G1-584, RICO Industrial Area,  
Shapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketing@teamtesthouse.com

## TEST REPORT

Report No./ULR No.:	TC123572600000030F	Date :	20-01-2026
Issued To :	M/S Hindustan Zinc Limited (Kayad Mines) Village Kayad, District Almer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Intention :	09-01-2026 11:43 to 10-01-2026 11:43
Point of Collection :	N4 North West Corner of Mine Boundary	Date of Receipt :	12-01-2026
Date of Test/Analysis :	12-01-2026 to 20-01-2026	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1.	Noise Level (Day Time, 06:am to 09 pm): Leq [dB(A)]	61.7	IS 9989	75
2.	Noise Level (Night Time 09 pm to 06 am): Leq [dB(A)]	50.6	IS 9989	65

### Notes :-

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Puran Kishor Yogi  
Senior Analyst

Rakesh Maheshwari  
Authorized Signatory

(Report No: TC123572600000030F)



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JDA/UDH

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT


Report No./ULR No. :	TC1235726600000029F	Date :	20-01-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	09-01-2026 11:42 to 10-01-2026 11:42
Point of Collection :	N3 North East Corner of Mine Boundary	Date of Receipt :	12-01-2026
Date of Test/Analysis :	12-01-2026 to 20-01-2026	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time 06:am to 09 pm): Leq [dB(A)]	61.9	IS 9989	75
2	Noise Level (Night Time 09 pm to 06 am) : Leq [dB(A)]	52.7	IS 9989	65

**Notes :-**

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**Puran Mehta**  
Senior Analyst

  
**Rajesh Maheshwari**  
Authorized Signatory

(Report No: TC1235726600000029F )



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JDA/UDH

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./JLR No. :	TC123572660000028F	Date :	20-01-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	09-01-2026 11:41 to 10-01-2026 11:41
Point of Collection :	N2 East Side Boundary Near West Dump	Date of Receipt :	12-01-2026
Date of Test/Analysis :	12-01-2026 to 20-01-2026	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time 06:am to 09 pm): Leq [dB(A)]	64.6	IS 9989	75
2	Noise Level (Night Time 09 pm to 06 am) : Leq [dB(A)]	55.5	IS 9989	65

### Notes >

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Purnaj Yogi  
Senior Analyst

Rakesh Maheshwari  
Authorized Signatory

(Report No: TC123572660000028F )



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JDA/UDH

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235726600000027F	Date :	20-01-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	09-01-2026 11:41 to 10-01-2026 11:41
Point of Collection :	N1 South West Corner of Mine Boundary	Date of Receipt :	12-01-2026
Date of Test/Analysis :	12-01-2026 to 20-01-2026	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time 06 am to 09 pm) : Leq [dB(A)]	63.8	IS 9989	75
2	Noise Level (Night Time 09 pm to 06 am) : Leq [dB(A)]	54.7	IS 9989	65

### Notes -

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*Puran*  
**Puran Maheshwari**  
Senior Analyst

*Raj*  
**Rajesh Maheshwari**  
Authorized Signatory

(Report No: TC1235726600000027F)



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JDA/UDH

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC123572660000026F	Date :	20-01-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	09-01-2026 10:30 to 10-01-2026 10:30
Point of Collection :	Sub Station	Date of Receipt :	12-01-2026
Date of Test/Analysis :	12-01-2026 to 20-01-2026	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time 06:am to 09 pm): Leq [dB(A)]	62.7	IS 9989	75
2	Noise Level (Night Time 09 pm to 06 am) : Leq [dB(A)]	54.6	IS 9989	65

**Notes -**

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**Purni Mal Yogi**  
Senior Analyst

  
**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: TC123572660000026F )



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.hdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC123572660000025F	Date :	20-01-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	08-01-2026 10:28 to 09-01-2026 10:28
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	12-01-2026
Date of Test/Analysis :	12-01-2026 to 20-01-2026	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time 06 am to 10 pm) : Leq [dB(A)]	53.5	IS 9989	55
2	Noise Level (Night Time 10 pm to 06 am) : Leq [dB(A)]	41.3	IS 9989	45

**Notes -**

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*Puran*  
**Puran Meher Yogi**  
Senior Analyst

*Rajesh*  
**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: TC123572660000025F)



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JDA/UDH

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : GI-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC123572660000024F	Date :	20-01-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	08-01-2026 10:27 to 09-01-2026 10:27
Point of Collection :	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	12-01-2026
Date of Test/Analysis :	12-01-2026 to 20-01-2026	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time 06 am to 10 pm) : Leq [dB(A)]	52.7	IS 9989	55
2	Noise Level (Night Time 10 pm to 06 am) : Leq [dB(A)]	43.5	IS 9989	45

### Notes :-

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Puran Mishra  
Senior Analyst

  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: TC123572660000024F)



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No.:	TC123572660000023F	Date :	20-01-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	08-01-2026 10:26 to 09-01-2026 10:26
Point of Collection :	Kayad Village [26°31'44."N, 74°41'16.5"E]	Date of Receipt :	12-01-2026
Date of Test/Analysis :	12-01-2026 to 20-01-2026	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

### RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time 06 am to 10 pm) : Leq [dB(A)]	51.7	IS 9989	55
2	Noise Level (Night Time 10 pm to 06 am) : Leq [dB(A)]	40.5	IS 9989	45

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*Puran*  
**Puran Maurya**  
Senior Analyst

*Rajesh*  
**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: TC123572660000023F )



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JDA/UDH

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C-Scheme, Jaipur - 302001, Rajasthan  
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Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235725600001791F	Date :	23-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	11-12-2025 15:21 to 12-12-2025 15:21
Point of Collection :	Kayad Village [26°31'44."N, 74°41'16.5"E]	Date of Receipt :	13-12-2025
Date of Test/Analysis :	13-12-2025 to 22-12-2025	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

### RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time 06 am to 10 pm) : Leq [dB(A)]	52.7	IS 9989	55
2	Noise Level (Night Time 10 pm to 06 am) : Leq [dB(A)]	41.5	IS 9989	45

**Notes :-**

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*Punit*  
**Punit Mehta**  
Senior Analyst

*Rajesh*  
**Rajesh Maheshwar**  
Authorized Signatory

(Report No: TC1235725600001791F )



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C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235725600001792F	Date :	23-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	11-12-2025 15:23 to 12-12-2025 15:23
Point of Collection :	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	13-12-2025
Date of Test/Analysis :	13-12-2025 to 22-12-2025	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

### RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time 06 am to 10 pm) : Leq [dB(A)]	51.9	IS 9989	55
2	Noise Level (Night Time 10 pm to 06 am) : Leq [dB(A)]	42.7	IS 9989	45

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**Puran Maji Yogi**  
Senior Analyst

  
**Rajesh Maheshwar**  
Authorized Signatory

(Report No: TC1235725600001792F )



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JDA/UDH

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C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
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Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235725600001793F	Date :	23-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	11-12-2025 15:23 to 12-12-2025 15:23
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	13-12-2025
Date of Test/Analysis :	13-12-2025 to 22-12-2025	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time 06 am to 10 pm) : Leq [dB(A)]	52.5	IS 9989	55
2	Noise Level (Night Time 10 pm to 06 am) : Leq [dB(A)]	43.4	IS 9989	45

**Notes >**

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**Puran Mai Yogi**  
Senior Analyst

  
Authorized Signatory  
(Report No: TC1235725600001793F )



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JDA/UDH

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C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235725600001794F	Date :	23-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	11-12-2025 15:25 to 12-12-2025 15:25
Point of Collection :	near sub station	Date of Receipt :	13-12-2025
Date of Test/Analysis :	13-12-2025 to 22-12-2025	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time 06.am to 09 pm): Leq [dB(A)]	59.6	IS 9989	75
2	Noise Level (Night Time 09 pm to 06 am) : Leq [dB(A)]	51.5	IS 9989	65

### Notes :-

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**Purnima Yogi**  
Senior Analyst

**Rajesh Mahacharyar**  
Authorized Signatory  
(Report No: TC1235725600001794F )



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235725600001795F	Date :	23-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	11-12-2025 15:26 to 12-12-2025 15:26
Point of Collection :	N1 South West Corner of Mine Boundary	Date of Receipt :	13-12-2025
Date of Test/Analysis :	13-12-2025 to 22-12-2025	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time 06 am to 10 pm) : Leq [dB(A)]	61.6	IS 9989	75
2	Noise Level (Night Time 10 pm to 06 am) : Leq [dB(A)]	52.5	IS 9989	65

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Ratan Singh Yogi

Rajesh Maheshwar

(Report No: TC1235725600001795F)



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210964, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.hdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235725600001796F	Date :	23-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	11-12-2025 15:28 to 12-12-2025 15:28
Point of Collection :	N2 East Side Boundary Near West Dump	Date of Receipt :	13-12-2025
Date of Test/Analysis :	13-12-2025 to 23-12-2025	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time 06:am to 09 pm): Leq [dB(A)]	62.7	IS 9989	75
2	Noise Level (Night Time 09 pm to 06 am) : Leq [dB(A)]	53.6	IS 9989	65

**Notes :-**

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**Puran Singh**  
Senior Analyst

**Rajesh Maheshwar**  
Authorized Signatory

(Report No: TC1235725600001796F )



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JDA/UDH

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235725600001797F	Date :	23-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	11-12-2025 15:29 to 12-12-2025 15:29
Point of Collection :	N3 North East Corner of Mine Boundary	Date of Receipt :	13-12-2025
Date of Test/Analysis :	13-12-2025 to 23-12-2025	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time 06:am to 09 pm): Leq [dB(A)]	59.8	IS 9989	75
2	Noise Level (Night Time 09 pm to 06 am) : Leq [dB(A)]	50.7	IS 9989	65

### Notes ->

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Purni Mehta  
Senior Analyst

  
Rashmi Mehta  
Authorized Signatory  
(Report No: TC1235725600001797F )



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235725600001798F	Date :	23-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	11-12-2025 15:30 to 12-12-2025 15:30
Point of Collection :	N4 North West Corner of Mine Boundary	Date of Receipt :	13-12-2025
Date of Test/Analysis :	13-12-2025 to 23-12-2025	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time 06:am to 09 pm): Leq [dB(A)]	57.5	IS 9989	75
2	Noise Level (Night Time 09 pm to 06 am) : Leq [dB(A)]	48.4	IS 9989	65

**Notes >**

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**Puran Ma Yogi**  
Senior Analyst

**Rajesh Maheshwari**  
Authorized Signatory

(Report No: TC1235725600001798F )



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JDA/UDH

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Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235725600001799F	Date :	23-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	11-12-2025 15:31 to 12-12-2025 15:31
Point of Collection :	N5 West Side Towards Kayad Village	Date of Receipt :	13-12-2025
Date of Test/Analysis :	13-12-2025 to 23-12-2025	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time 06:am to 09 pm): Leq [dB(A)]	62.6	IS 9989	75
2	Noise Level (Night Time 09 pm to 06 am) : Leq [dB(A)]	53.5	IS 9989	65

**Notes :-**

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Senior Analyst

  
Authorized Signatory  
(Report No: TC1235725600001799F)



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JDA/UDH

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C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235725600001800F	Date :	23-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	11-12-2025 15:32 to 12-12-2025 15:32
Point of Collection :	N6 South East Corner	Date of Receipt :	13-12-2025
Date of Test/Analysis :	13-12-2025 to 23-12-2025	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time 06:am to 09 pm): Leq [dB(A)]	59.9	IS 9989	75
2	Noise Level (Night Time 09 pm to 06 am) : Leq [dB(A)]	50.7	IS 9989	65

Notes :-

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Purnima Yogi  
Senior Analyst

Rajesh Maheshwar  
Authorized Signatory

(Report No: TC1235725600001800F )



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JDA/UDH

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	25600001500	Date :	25-10-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	07-10-2025
Point of Collection :	N6 South East Corner	Date of Receipt :	10-10-2025
Date of Test/Analysis :	10-10-2025 to 25-10-2025	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	61.8	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	52.7	IS 9989	65

### Notes :-

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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Senior Analyst  
**Purnan Mah Yogi**

Authorized Signatory  
(Report No: 25600001500 )  
**Rajesh Maheshwari**



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JDA/UDH

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C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	25600001499	Date :	25-10-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	07-10-2025
Point of Collection :	N5 West Side Towards Kayad Village	Date of Receipt :	10-10-2025
Date of Test/Analysis :	10-10-2025 to 25-10-2025	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Sitaram Jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	60.9	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	51.8	IS 9989	65

### Notes -

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Senior Analyst  
Purnima Mehta

  
Authorized Signatory  
(Report No: 25600001499)  
Rajesh Maheshwari



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C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdbhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	25600001498	Date :	25-10-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	07-10-2025
Point of Collection :	N4 North West Corner of Mine Boundary	Date of Receipt :	10-10-2025
Date of Test/Analysis :	10-10-2025 to 25-10-2025	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Sitaram Jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	62.7	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	53.6	IS 9989	65

### Notes :-

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Senior Analyst  
Puran Maheshwari

  
Authorized Signatory  
(Report No: 25600001498 )  
Rajesh Maheshwari



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JDA/UDH

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No.:	25600001497	Date :	25-10-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	07-10-2025
Point of Collection :	N3 North East Corner of Mine Boundary	Date of Receipt :	10-10-2025
Date of Test/Analysis :	10-10-2025 to 25-10-2025	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	65.4	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	56.3	IS 9989	65

**Notes :-**

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*Puran Mai Yogi*

Senior Analyst

**Puran Mai Yogi**

*Rajesh Maheshwari*

Authorized Signatory

(Report No: 25600001497)

**Rajesh Maheshwari**



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	25600001496	Date :	25-10-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	07-10-2025
Point of Collection :	N2 East Side Boundary Near West Dump	Date of Receipt :	10-10-2025
Date of Test/Analysis :	10-10-2025 to 25-10-2025	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	63.6	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	54.5	IS 9989	65

### Notes ->

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Senior Analyst

**Puran Mai Yogi**

Authorized Signatory

(Report No: 25600001496)

**Rajesh Maheshwari**



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JDA/UDH

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C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	25600001495	Date :	25-10-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	06-10-2025
Point of Collection :	N1 South West Corner of Mine Boundary	Date of Receipt :	10-10-2025
Date of Test/Analysis :	10-10-2025 to 25-10-2025	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Sitaram Jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

### RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	62.5	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	53.4	IS 9989	65

Notes >

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*Puran Mehta*  
Senior Analyst  
**Puran Mehta Yogi**

*Rajesh Maheshwari*  
Authorized Signatory  
(Report No: 25600001495 )  
**Rajesh Maheshwari**



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JDA/UDH

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C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	25600001494	Date :	25-10-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	06-10-2025
Point of Collection :	near sub station	Date of Receipt :	10-10-2025
Date of Test/Analysis :	10-10-2025 to 25-10-2025	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	59.7	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	50.6	IS 9989	65

### Notes -

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Senior Analyst  
**Puran Meher Yogi**

  
Authorized Signatory  
(Report No: 25600001494 )  
**Rajesh Maheshwari**



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	25600001493	Date :	25-10-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	06-10-2025
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	10-10-2025
Date of Test/Analysis :	10-10-2025 to 25-10-2025	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Sitaram Jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	50.9	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	41.7	IS 9989	45

Notes -

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*Puran*  
**Puran Mai Yogi**  
Senior Analyst

**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: 25600001493 )



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JDA/UDH

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C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	25600001492	Date :	25-10-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	06-10-2025
Point of Collection :	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	10-10-2025
Date of Test/Analysis :	10-10-2025 to 25-10-2025	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	48.7	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	39.5	IS 9989	45

**Notes :-**

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**Purnan Mal Yogi**  
Senior Analyst

  
**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: 25600001492)



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JDA/UDH

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C-Scheme, Jaipur - 302001, Rajasthan  
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Email : team.bdhead@gmail.com

Laboratory : G1-584, RICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	25600001491	Date :	25-10-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	06-10-2025
Point of Collection :	Kayad Village [26°31'44."N, 74°41'16.5"E]	Date of Receipt :	10-10-2025
Date of Test/Analysis :	10-10-2025 to 25-10-2025	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	49.5	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	40.3	IS 9989	45

**Notes :-**

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**Puran Mehta Yogi**  
Senior Analyst

**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: 25600001491 )



**HINDUSTAN ZINC LIMITED**

**KAYAD MINE**

Sr.No	Location	Noise Level Monitoring Report (April-25 to Sept-25)										Annexure-II		
		Oct-25	Nov-25	Dec-25	Jan-26	Feb-26	Mar-26	Oct-25	Nov-25	Dec-25	Jan-26	Feb-26	Mar-26	Annexure-II
		Day time Industrial Limit 75dB					Night time Industrial limit 65dB							
N-1	South West Corner of Mine Boundary	62.5	60.5	61.5	63.8	64.6	59.5	63.4	51.5	52.5	54.7	55.5	50.3	
N-2	East Side Boundary Near West Dump	63.6	61.3	62.7	64.6	66.5	61.4	54.5	52.1	53.6	55.5	57.4	52.3	
N-3	North East Corner of Mine Boundary	65.4	59.4	65.8	61.9	61.7	62.5	58.3	50.3	50.7	52.7	52.8	53.5	
N-4	North West Corner of Mine Boundary	62.7	58	57.5	61.7	61.9	57.8	53.8	49.7	48.4	50.5	50.7	48.7	
N-5	West Side Towards Kayal Village	60.9	63.4	62.8	56.8	57.7	55.8	51.8	54.3	53.5	45.7	46.6	49.2	
N-6	South East East Corner Sub-Station	61.8	60.6	59.9	61.7	62.5	58.2	52.7	51.5	50.7	52.5	53.4	48.9	
		59.7	61.7	59.6	62.7	63.7	57.2	50.6	52.5	51.5	54.5	55.3	48.4	
<b>Sr.No</b>	<b>Location</b>													
N-7	Kayal Village	49.5	51.9	52.7	51.7	52.8	51.2	48.3	41.7	41.5	40.5	41.7	40.6	
N-8	Lohagal Village	46.7	52.7	51.8	52.7	51.9	49.5	39.5	41.5	42.7	43.5	42.7	35.4	
N-9	Gagwana Village	50.9	50.3	52.5	53.5	50.7	50.9	41.7	40.2	43.4	41.3	41.5	38.5	



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Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No.:	TC1235726400000399F	Date :	30-03-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	22-03-2026 16:20 to 23-03-2026 16:20
Point of Collection :	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Receipt :	25-03-2026
Date of Test/Analysis :	25-03-2026 to 30-03-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009.
1	Ammonia [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400
2	Carbon Monoxide [microgram/m <sup>3</sup> ]	320	TTH/AAQM/08	2000 (8 Hours)
3	Lead [microgram/m <sup>3</sup> ]	0.14	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	13.52	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part-9) :1974 RA 2019	100 (8 Hours)
6	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	122.67	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	27.91	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m <sup>3</sup> ]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]	59.83	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Benzene [microgram/m <sup>3</sup> ]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
11	Benzo (a) Pyrene [ng/m <sup>3</sup> ]	BDL(<1.0)	IS 5182 (Part-12) :2004 RA 2019	1.00
12	Arsenic [ng/m <sup>3</sup> ]	BDL(<2.0)	TTH/AAQM/11	6.00
13	Nickel [ng/m <sup>3</sup> ]	Less than 5	IS 5182 Part-26 :2020	20.00

### Notes >

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Puran Mah Yogi

Rajesh Maheshwari



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(Unit of Team Institute of Science & Technology Pvt. Ltd.)



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JDA/UDH

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6577210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235726400000398F	Date :	30-03-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	22-03-2026 16:20 to 23-03-2026 16:20
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	25-03-2026
Date of Test/Analysis :	25-03-2026 to 30-03-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400
2	Carbon Monoxide [microgram/m3]	290	TTH/AAQM/08	2000 (8 Hours)
3	Lead [microgram/m3]	0.11	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	13.58	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BOL(<20.0)	IS 5182 (Part-9) :1974 RA 2019	100 (8 Hours)
6	Suspended Particulate Matter (SPM) [microgram/m3]	119.5	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	25.89	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	68.41	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Benzene [microgram/m3]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
11	Benzo (a) Pyrene [ng/m3]	BDL(<1.0)	IS 5182 (Part-12) :2004 RA 2019	1.00
12	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
13	Nickel [ng/m3]	Less than 5	IS 5182 Part-26 :2020	20.00

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*Puran Mehta*  
**Puran Mehta**

*Rajesh Maheshwari*  
**Rajesh Maheshwari**



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JDA/UDH

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C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

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Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235726400000397F	Date :	30-03-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	22-03-2026 16:19 to 23-03-2026 16:19
Point of Collection :	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	25-03-2026
Date of Test/Analysis :	25-03-2026 to 30-03-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400
2	Carbon Monoxide [microgram/m3]	280	TTH/AAQM/08	2000 (8 Hours)
3	Lead [microgram/m3]	0.11	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	13.22	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(<20.0)	IS 5182 (Part-9) :1974 RA 2019	100 (8 Hours)
6	Suspended Particulate Matter (SPM) [microgram/m3]	132	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	26.18	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	71.27	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Benzene [microgram/m3]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
11	Benzo (a) Pyrene [ng/m3]	BDL(<1.0)	IS 5182 (Part-12) :2004 RA 2019	1.00
12	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
13	Nickel [ng/m3]	Less than 5	IS 5182 Part-26 :2020	20.00

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*Purani*  
Purani Masi Yogi

*Rajesh*  
Rajesh Maheshwari



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Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

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Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC123572640000396F	Date :	30-03-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	23-03-2026 16:18 to 24-03-2026 16:18
Point of Collection :	Near ANFO Station	Date of Receipt :	25-03-2026
Date of Test/Analysis :	25-03-2026 to 30-03-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400
2	Carbon Monoxide [microgram/m3]	370	TTH/AAQM/08	2000 (8 Hours)
3	Lead [microgram/m3]	0.11	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	15.13	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(<20.0)	IS 5182 (Part-9) :1974 RA 2019	100 (8 Hours)
6	Suspended Particulate Matter (SPM) [microgram/m3]	134.14	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	35.77	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.58	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	74.56	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Benzene [microgram/m3]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
11	Benzo (a) Pyrene [ng/m3]	BDL(<1.0)	IS 5182 (Part-12) :2004 RA 2019	1.00
12	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
13	Nickel [ng/m3]	Less than 5	IS 5182 Part-26 :2020	20.00

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*Purandhar*  
**Purandhar Yogi**

*Rajesh*  
**Rajesh Maheshwari**



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235726400000395F	Date :	30-03-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	23-03-2026 16:17 to 24-03-2026 16:18
Point of Collection :	Near CRF	Date of Receipt :	25-03-2026
Date of Test/Analysis :	25-03-2026 to 30-03-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400
2	Carbon Monoxide [microgram/m <sup>3</sup> ]	380	TTH/AAQM/08	2000 (8 Hours)
3	Lead [microgram/m <sup>3</sup> ]	0.13	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	14.55	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part-9) :1974 RA 2019	100 (8 Hours)
6	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	140.59	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	34.05	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m <sup>3</sup> ]	6.48	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]	74.04	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Benzene [microgram/m <sup>3</sup> ]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
11	Benzo (a) Pyrene [ng/m <sup>3</sup> ]	BDL(<1.0)	IS 5182 (Part-12) :2004 RA 2019	1.00
12	Arsenic [ng/m <sup>3</sup> ]	BDL(<2.0)	TTH/AAQM/11	6.00
13	Nickel [ng/m <sup>3</sup> ]	Less than 5	IS 5182 Part-26 :2020	20.00

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Puran Mehta Yogi

Rajesh Maheshwari



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JDA/UDH

Office : E-65, Chitranganj Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdlhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235726400000394F	Date :	30-03-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	23-03-2026 16:17 to 24-03-2026 16:17
Point of Collection :	Near Sub Station	Date of Receipt :	25-03-2026
Date of Test/Analysis :	25-03-2026 to 30-03-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400
2	Carbon Monoxide [microgram/m <sup>3</sup> ]	360	TTH/AAQM/08	2000 (8 Hours)
3	Lead [microgram/m <sup>3</sup> ]	0.11	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	14.77	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part-9) :1974 RA 2019	100 (8 Hours)
6	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	136.54	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	30.17	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m <sup>3</sup> ]	6.22	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	74.85	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Benzene [microgram/m <sup>3</sup> ]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
11	Benzo (a) Pyrene [ng/m <sup>3</sup> ]	BDL(<1.0)	IS 5182 (Part-12) :2004 RA 2019	1.00
12	Arsenic [ng/m <sup>3</sup> ]	BDL(<2.0)	TTH/AAQM/11	6.00
13	Nickel [ng/m <sup>3</sup> ]	Less than 5	IS 5182 Part-26 :2020	20.00

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**Puran M. Yogi**

*Rajesh Maheshwari*  
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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
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Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235726400000301F	Date :	20-03-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	09-03-2026 10:41 to 10-03-2026 10:41
Point of Collection :	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Receipt :	13-03-2026
Date of Test/Analysis :	13-03-2026 to 20-03-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL (<20.0)	IS 5182 (Part 25) : 2018	400
2	Carbon Monoxide [microgram/m3]	310	TTH/AAQM/08	2000 (8 Hours)
3	Lead [microgram/m3]	Less than 0.1	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	24.99	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL (<20.0)	IS 5182 (Part-9) :1974 RA 2019	100 (8 Hours)
6	Suspended Particulate Matter (SPM) [microgram/m3]	129.37	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	26.49	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	73.51	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Benzene [microgram/m3]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
11	Benzo (a) Pyrene [ng/m3]	BDL(<1.0)	IS 5182 (Part-12) :2004 RA 2019	1.00
12	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
13	Nickel [ng/m3]	Less than 5	IS 5182 Part-26 :2020	20.00

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Rajesh Maheshwar

Rajesh Maheshwar



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JDA/UDH

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6577210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
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Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235726400000300F	Date :	20-03-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	09-03-2026 10:40 to 10-03-2026 10:40
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	13-03-2026
Date of Test/Analysis :	13-03-2026 to 20-03-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400
2	Carbon Monoxide [microgram/m3]	280	TTH/AAQM/08	2000 (8 Hours)
3	Lead [microgram/m3]	0.11	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	13.55	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(<20.0)	IS 5182 (Part-9) :1974 RA 2019	100 (8 Hours)
6	Suspended Particulate Matter (SPM) [microgram/m3]	126.72	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	25.82	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	65.9	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Benzene [microgram/m3]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
11	Benzo (a) Pyrene [ng/m3]	BDL(<1.0)	IS 5182 (Part-12) :2004 RA 2019	1.00
12	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
13	Nickel [ng/m3]	Less than 5	IS 5182 Part-26 :2020	20.00

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Purushottam Singh

  
Rajesh Kumar



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RHCO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No.:	TC1235726400000299F	Date :	20-03-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	09-03-2026 10:38 to 10-03-2026 10:38
Point of Collection :	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	13-03-2026
Date of Test/Analysis :	13-03-2026 to 20-03-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram Jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400
2	Carbon Monoxide [microgram/m3]	270	TTH/AAQM/08	2000 (8 Hours)
3	Lead [microgram/m3]	0.11	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	13.99	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(<20.0)	IS 5182 (Part-9) :1974 RA 2019	100 (8 Hours)
6	Suspended Particulate Matter (SPM) [microgram/m3]	133.22	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	29.18	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	73.41	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Benzene [microgram/m3]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
11	Benzo (a) Pyrene [ng/m3]	BDL(<1.0)	IS 5182 (Part-12) :2004 RA 2019	1.00
12	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
13	Nickel [ng/m3]	Less than 5	IS 5182 Part-26 :2020	20.00

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Purni Mal Yogi

Rajesh Maneshwar



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No.:	TC1235726400000298F	Date :	20-03-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	10-03-2026 10:37 to 11-03-2026 10:37
Point of Collection :	Near ANFO Station	Date of Receipt :	13-03-2026
Date of Test/Analysis :	13-03-2026 to 20-03-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400
2	Carbon Monoxide [microgram/m3]	360	TTH/AAQM/08	2000 (8 Hours)
3	Lead [microgram/m3]	0.14	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.57	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(<20.0)	IS 5182 (Part-9) :1974 RA 2019	100 (8 Hours)
6	Suspended Particulate Matter (SPM) [microgram/m3]	153.78	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	37.56	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.49	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	76.99	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Benzene [microgram/m3]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
11	Benzo (a) Pyrene [ng/m3]	BDL(<1.0)	IS 5182 (Part-12) :2004 RA 2019	1.00
12	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
13	Nickel [ng/m3]	Less than 5	IS 5182 Part-26 :2020	20.00

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*Signature*

*Signature*  
**Rajesh Maheshwar**



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JDA/UDH

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235726400000297F	Date :	20-03-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	10-03-2026 10:34 to 11-03-2026 10:34
Point of Collection :	Near CRF	Date of Receipt :	13-03-2026
Date of Test/Analysis :	13-03-2026 to 20-03-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram Jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400
2	Carbon Monoxide [microgram/m3]	390	TTH/AAQM/08	2000 (8 Hours)
3	Lead [microgram/m3]	0.16	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.12	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(<20.0)	IS 5182 (Part-9) :1974 RA 2019	100 (8 Hours)
6	Suspended Particulate Matter (SPM) [microgram/m3]	134.78	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	36.63	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.67	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	82.55	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Benzene [microgram/m3]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
11	Benzo (a) Pyrene [ng/m3]	BDL(<1.0)	IS 5182 (Part-12) :2004 RA 2019	1.00
12	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
13	Nickel [ng/m3]	Less than 5	IS 5182 Part-26 :2020	20.00

### Notes ->

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Prakash Sharma

Rajesh Maheshwari



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JDA/UDH

Office : E-65, Chitraujan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.tblhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235726400000296F	Date :	20-03-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	10-03-2026 10:31 to 11-03-2026 10:31
Point of Collection :	Near Sub Station	Date of Receipt :	13-03-2026
Date of Test/Analysis :	13-03-2026 to 20-03-2026	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part 25) : 2018	400
2	Carbon Monoxide [microgram/m <sup>3</sup> ]	370	TTH/AAQM/08	2000 (8 Hours)
3	Lead [microgram/m <sup>3</sup> ]	0.13	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	14.42	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m <sup>3</sup> ]	BDL(<20.0)	IS 5182 (Part-9) :1974 RA 2019	100 (8 Hours)
6	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	136.44	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	31.43	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m <sup>3</sup> ]	6.85	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	69.26	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Benzene [microgram/m <sup>3</sup> ]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
11	Benzo (a) Pyrene [ng/m <sup>3</sup> ]	BDL(<1.0)	IS 5182 (Part-12) :2004 RA 2019	1.00
12	Arsenic [ng/m <sup>3</sup> ]	BDL(<2.0)	TTH/AAQM/11	6.00
13	Nickel [ng/m <sup>3</sup> ]	Less than 5	IS 5182 Part-26 :2020	20.00

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Puran Mai Yogi

Rajesh Maheshwari



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JDA/UBH

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6372210164, 9414077279,  
Website : www.teamtesthouse.com  
Email : team.testhouse@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sisopura, Jaipur - 302022, Rajasthan  
Phone : +91 9460212039, 9460212049,  
Email : dlivesh@teamtesthouse.com,  
Email : marketing@teamtesthouse.com

## TEST REPORT

Report No./LR No. :	10000087	Date :	18-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	05-02-2026
Point of Collection	PW-3	Date of Receipt :	07-02-2026
Date of Test/Analysis :	07-02-2026 to 18-02-2026	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krushna Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
15	Chloride (mg/l)	2835.26	IS 3025 (Part 32) : 1988 RA 2019
16	Total Solids (mg/l)	5172	IS 3025 (part 15) : 1984 RA 2019

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Balram Agarwal  
Senior Analyst

Rakesh Maheshwari  
Authorized Signatory  
(Report No: 10000087)



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235726100000088F	Date :	18-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	05-02-2026
Point of Collection :	PW - 4	Date of Receipt :	07-02-2026
Date of Test/Analysis :	07-02-2026 to 18-02-2026	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.85	IS 3025 (Part 11) : 1983 RA 2017
2	Total Hardness [mg/l]	1754.39	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	0.04	IS 3025 (Part 53) : 2003 RA 2019
4	Chloride [mg/l]	1174.1	IS 3025 (Part 32) : 1988 RA 2019
5	Total Dissolved Solids [mg/l]	5232	IS 3025 (Part 16) : 1984 RA 2017
6	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019
7	Sulphate [mg/l]	1947.8	IS 3025 (Part 24) : 1986 RA 2019
8	Cadmium [mg/l]	Less than 0.001	3113 -B , APHA 24th Edition
9	Lead [mg/l]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019
10	Zinc [mg/l]	0.02	IS 3025 (Part 49) : 1994 RA 2019

Note:

Continue to next page...

*Rajesh*  
**Rajesh Maheshwari**



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JDA/UDH

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
11	Alkalinity - T [mg/l]	612	IS 3025 (Part 23) : 1986 RA 2019
12	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019
13	Total Suspended Solids [mg/l]	57	IS 3025 (Part 17) : 1984 RA 2017
14	Cobalt [mg/l]	Less than 0.05	3113 -B , APHA 24th Edition
15	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003 RA 2019

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*Balram*  
**Balram Agarwal**  
Senior Analyst

*Rajesh*  
**Rajesh Mahechhari**  
Analyst

(Report No: TC1235726100000088F)



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	100000088	Date :	18-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	05-02-2026
Point of Collection :	PW - 4	Date of Receipt :	07-02-2026
Date of Test/Analysis :	07-02-2026 to 18-02-2026	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
16	Total Solids [mg/l]	5289	IS 3025 (part 15) : 1984 RA 2019

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*Balram*  
**Balram Agarwal**  
Senior Analyst

*Rajesh Maheshwari*  
**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: 100000088)



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JDA/UDH

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	100000089	Date :	18-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	05-02-2026
Point of Collection :	PW - 5	Date of Receipt :	07-02-2026
Date of Test/Analysis :	07-02-2026 to 18-02-2026	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
15	Chloride [mg/l]	2054.68	IS 3025 (Part 32) : 1988 RA 2019
16	Total Solids [mg/l]	6885	IS 3025 (part 15) : 1984 RA 2019

### Notes :-

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**Balram Agarwal**  
Senior Analyst

  
**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: 100000089)





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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235726100000089F	Date :	18-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	05-02-2026
Point of Collection :	PW - 5	Date of Receipt :	07-02-2026
Date of Test/Analysis :	07-02-2026 to 18-02-2026	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.73	IS 3025 (Part 11) : 1983 RA 2017
2	Total Hardness [mg/l]	1842.11	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	Less than 0.01	IS 3025 (Part 53) : 2003 RA 2019
4	Total Dissolved Solids [mg/l]	6793	IS 3025 (Part 16) : 1984 RA 2017
5	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019
6	Sulphate [mg/l]	1673.5	IS 3025 (Part 24) : 1986 RA 2019
7	Cadmium [mg/l]	Less than 0.001	3113 -B , APHA 24th Edition
8	Lead [mg/l]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019
9	Zinc [mg/l]	Less than 0.01	IS 3025 (Part 49) : 1994 RA 2019
10	Alkalinity - T [mg/l]	408	IS 3025 (Part 23) : 1986 RA 2019

Note:

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Rajesh Maheshwari



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JDA/UDH

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
11	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019
12	Total Suspended Solids [mg/l]	92	IS 3025 (Part 17) : 1984 RA 2017
13	Cobalt [mg/l]	Less than 0.05	3113 -B , APHA 24th Edition
14	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003 RA 2019

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*Balram*  
**Balram Agarwal**  
Senior Analyst

*Rajesh Maheshwari*  
Authorized Signatory  
(Report No: TC1235726100000089F)



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Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC123572610000091F	Date :	23-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	06-02-2026
Point of Collection :	Openwell-01 [Chachiyawas Road naim Bhutto Well no.1]	Date of Receipt :	09-02-2026
Date of Test/Analysis :	09-02-2026 to 23-02-2026	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krushna Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.58	IS 3025 (Part 11) : 1983 RA 2017
2	Total Hardness [mg/l]	789.47	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	0.05	IS 3025 (Part 53) : 2003 RA 2019
4	Chloride [mg/l]	1174.1	IS 3025 (Part 32) : 1988 RA 2019
5	Total Dissolved Solids [mg/l]	3219	IS 3025 (Part 16) : 1984 RA 2017
6	Copper [mg/l]	0.03	IS 3025 (Part 42) : 1992 RA 2019
7	Sulphate [mg/l]	749.2	IS 3025 (Part 24) : 1986 RA 2019
8	Cadmium [mg/l]	Less than 0.001	3113 -B , APHA 24th Edition
9	Lead [mg/l]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019
10	Zinc [mg/l]	0.03	IS 3025 (Part 49) : 1994 RA 2019

Note:

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*Rajesh*  
**Rajesh Maheshwari**



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

**RESULTS**

S.No	Parameters	Observed Value	Testing Protocol
11	Alkalinity - T [mg/l]	552.5	IS 3025 (Part 23) : 1986 RA 2019
12	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019
13	Total Suspended Solids [mg/l]	32	IS 3025 (Part 17) : 1984 RA 2017
14	Cobalt [mg/l]	Less than 0.05	3113 -B , APHA 24th Edition
15	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003 RA 2019

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*Balram*  
**Balram Agarwal**  
Senior Analyst

*Rajesh*  
**Rajesh Maheshwari**  
Authorized Signatory

(Report No: TC1235726100000091F )



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JDA/UDH

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RHC/O Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

**TEST REPORT**

Report No./ULR No. :	10000091	Date :	23-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	06-02-2026
Point of Collection :	Openwell-01 [Chachiyawas Road naim Bhutto Well no.1]	Date of Receipt :	09-02-2026
Date of Test/Analysis :	09-02-2026 to 23-02-2026	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krasha Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

**RESULTS**

S.No	Parameters	Observed Value	Testing Protocol
16	Total Solids [mg/l]	3251	IS 3025 (part 15) : 1984 RA 2019

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**Balram Agarwal**  
Senior Analyst

  
**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: 10000091)





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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./JLR No. :	TC123572610000090F	Date :	23-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	06-02-2026
Point of Collection :	Openwell-02 [Gujar Well Near Akabar Mine No. 2]	Date of Receipt :	09-02-2026
Date of Test/Analysis :	09-02-2026 to 23-02-2026	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.26	IS 3025 (Part 11) : 1983 RA 2017
2	Total Hardness [mg/l]	1403.51	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	0.04	IS 3025 (Part 53) : 2003 RA 2019
4	Total Dissolved Solids [mg/l]	4205	IS 3025 (Part 16) : 1984 RA 2017
5	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019
6	Sulphate [mg/l]	985.6	IS 3025 (Part 24) : 1986 RA 2019
7	Cadmium [mg/l]	Less than 0.001	3113 -B , APHA 24th Edition
8	Lead [mg/l]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019
9	Zinc [mg/l]	0.02	IS 3025 (Part 49) : 1994 RA 2019
10	Alkalinity - T [mg/l]	459	IS 3025 (Part 23) : 1986 RA 2019

Note:

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*Raj*  
Rajesh Maheshwari



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JBA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.hdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
11	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019
12	Total Suspended Solids [mg/l]	31	IS 3025 (Part 17) : 1984 RA 2017
13	Cobalt [mg/l]	Less than 0.05	3113 -B , APHA 24th Edition
14	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003 RA 2019

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*Balram Agarwal*  
**Balram Agarwal**  
Senior Analyst

*Rajesh Maheshwari*  
**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: TC1235726100000090F )



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	100000090	Date :	23-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	06-02-2026
Point of Collection :	Openwell-02 [Gujar Well Near Akabar Mine No. 2]	Date of Receipt :	09-02-2026
Date of Test/Analysis :	09-02-2026 to 23-02-2026	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
15	Chloride [mg/l]	1614.39	IS 3025 (Part 32) : 1988 RA 2019
16	Total Solids [mg/l]	4236	IS 3025 (part 15) : 1984 RA 2019

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**Bal Arwal**  
Senior Analyst

**Raiesh Maheshwari**  
Authorized Signatory  
(Report No: 100000090)





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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC123572610000092F	Date :	23-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	06-02-2026
Point of Collection :	Openwell-03 [Near Talab Area Well No.3]	Date of Receipt :	09-02-2026
Date of Test/Analysis :	09-02-2026 to 23-02-2026	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.87	IS 3025 (Part 11) : 1983 RA 2017
2	Total Hardness [mg/l]	350.88	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	0.07	IS 3025 (Part 53) : 2003 RA 2019
4	Chloride [mg/l]	978.42	IS 3025 (Part 32) : 1988 RA 2019
5	Total Dissolved Solids [mg/l]	2746	IS 3025 (Part 16) : 1984 RA 2017
6	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019
7	Sulphate [mg/l]	1064.8	IS 3025 (Part 24) : 1986 RA 2019
8	Cadmium [mg/l]	Less than 0.001	3113 -B , APHA 24th Edition
9	Lead [mg/l]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019
10	Zinc [mg/l]	0.02	IS 3025 (Part 49) : 1994 RA 2019

Note:

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*Rajesh*  
**Rajesh Maheshwari**



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ISO 45001:2018 (OH&S)

JDA/UDH

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

**RESULTS**

S.No	Parameters	Observed Value	Testing Protocol
11	Alkalinity - T [mg/l]	680	IS 3025 (Part 23) : 1986 RA 2019
12	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019
13	Total Suspended Solids [mg/l]	29	IS 3025 (Part 17) : 1984 RA 2017
14	Cobalt [mg/l]	Less than 0.05	3113 -B , APHA 24th Edition
15	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003 RA 2019

**Notes :-**

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*Balram*  
**Balram Agarwal**  
Senior Analyst

*Rajesh*  
**Rajesh Maheshwari**  
Authorized Signatory

(Report No: TC123572610000092F)



**TEAM TEST HOUSE**  
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JDA/UDH

Office : E-65, Chltranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

**TEST REPORT**

Report No./ULR No. :	100000092	Date :	23-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	06-02-2026
Point of Collection :	Openwell-03 [Near Talab Area Well No.3]	Date of Receipt :	09-02-2026
Date of Test/Analysis :	09-02-2026 to 23-02-2026	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

**RESULTS**

S.No	Parameters	Observed Value	Testing Protocol
16	Total Solids [mg/l]	2775	IS 3025 (part 15) : 1984 RA 2019

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**Raimon Agarwal**  
Senior Analyst

**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: 100000092)



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414877379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC123572610000093F	Date :	23-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	06-02-2026
Point of Collection :	Openwell-04 [Mohangusar Well No.4]	Date of Receipt :	09-02-2026
Date of Test/Analysis :	09-02-2026 to 23-02-2026	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.32	IS 3025 (Part 11) : 1983 RA 2017
2	Total Hardness [mg/l]	807.02	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	0.09	IS 3025 (Part 53) : 2003 RA 2019
4	Chloride [mg/l]	1296.41	IS 3025 (Part 32) : 1988 RA 2019
5	Total Dissolved Solids [mg/l]	3729	IS 3025 (Part 16) : 1984 RA 2017
6	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019
7	Sulphate [mg/l]	904.2	IS 3025 (Part 24) : 1986 RA 2019
8	Cadmium [mg/l]	Less than 0.001	3113 -B , APHA 24th Edition
9	Lead [mg/l]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019
10	Zinc [mg/l]	0.03	IS 3025 (Part 49) : 1994 RA 2019

Note:

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*Rajesh Mahachwari*  
Rajesh Mahachwari



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
11	Alkalinity - T [mg/l]	459	IS 3025 (Part 23) : 1986 RA 2019
12	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019
13	Total Suspended Solids [mg/l]	42	IS 3025 (Part 17) : 1984 RA 2017
14	Cobalt [mg/l]	Less than 0.05	3113 -B , APHA 24th Edition
15	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003 RA 2019

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**Balram Agarwal**  
Senior Analyst

**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: TC123572610000093F )



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Email : team.bdhead@gmail.com

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Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

**TEST REPORT**

Report No./ULR No. :	100000093	Date :	23-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	06-02-2026
Point of Collection :	Openwell-04 [Mohangusar Well No.4]	Date of Receipt :	09-02-2026
Date of Test/Analysis :	09-02-2026 to 23-02-2026	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

**RESULTS**

S.No	Parameters	Observed Value	Testing Protocol
16	Total Solids [mg/l]	3771	IS 3025 (part 15) : 1984 RA 2019

Notes :-

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*Balram*  
**Balram Agarwal**  
Senior Analyst

*Rajesh Maheshwari*  
**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: 100000093 )



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C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./JLR No. :	TC123572610000094F	Date :	23-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	06-02-2026
Point of Collection :	Openwell-05 (Near HZL Boundary Out Side Well No.5)	Date of Receipt :	09-02-2026
Date of Test/Analysis :	09-02-2026 to 23-02-2026	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	6.88	IS 3025 (Part 11) : 1983 RA 2017
2	Total Hardness [mg/l]	2719.3	IS 3025 (Part 21) : 2009 RA 2019
3	Total Dissolved Solids [mg/l]	9650	IS 3025 (Part 16) : 1984 RA 2017
4	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019
5	Cadmium [mg/l]	Less than 0.001	3113 -B , APHA 24th Edition
6	Lead [mg/l]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019
7	Zinc [mg/l]	0.05	IS 3025 (Part 49) : 1994 RA 2019
8	Alkalinity - T [mg/l]	425	IS 3025 (Part 23) : 1986 RA 2019
9	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019
10	Total Suspended Solids [mg/l]	61	IS 3025 (Part 17) : 1984 RA 2017

Note:

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*Rajesh Maheshwar*



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**JDA/UDH**

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

### RESULTS

S.No	Parameters	Observed Value	Testing Protocol
11	Cobalt [mg/l]	Less than 0.05	3113 -B , APHA 24th Edition
12	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003 RA 2019

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*Balram*  
**Balram Agarwal**  
Senior Analyst

*Raj*  
**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: TC1235726100000094F )



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C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	100000094	Date :	23-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	06-02-2026
Point of Collection :	Openwell-05 [Near HZL Boundary Out Side Well No.5]	Date of Receipt :	09-02-2026
Date of Test/Analysis :	09-02-2026 to 23-02-2026	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
13	Iron [mg/l]	0.11	IS 3025 (Part 53) : 2003 RA 2019
14	Chloride [mg/l]	4402.89	IS 3025 (Part 32) : 1988 RA 2019
15	Sulphate [mg/l]	3864.7	IS 3025 (Part 24) : 1986 RA 2019
16	Total Solids [mg/l]	9711	IS 3025 (part 15) : 1984 RA 2019

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*Balram*  
**Balram Agarwal**  
Senior Analyst

*Rajesh*  
**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: 100000094 )



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Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No.:	TC123572610000095F	Date :	23-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	06-02-2026
Point of Collection :	Openwell-06 [Near Government School Sultan Master Well No.6]	Date of Receipt :	09-02-2026
Date of Test/Analysis :	09-02-2026 to 23-02-2026	Sampling Plan :	IS 3025:1987(Part 1)/RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	8.40	IS 3025 (Part 11) : 1983 RA 2017
2	Total Hardness [mg/l]	578.95	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	0.05	IS 3025 (Part 53) : 2003 RA 2019
4	Chloride [mg/l]	547.92	IS 3025 (Part 32) : 1988 RA 2019
5	Total Dissolved Solids [mg/l]	2072	IS 3025 (Part 16) : 1984 RA 2017
6	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019
7	Sulphate [mg/l]	435.8	IS 3025 (Part 24) : 1986 RA 2019
8	Cadmium [mg/l]	Less than 0.001	3113 -B , APHA 24th Edition
9	Lead [mg/l]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019
10	Zinc [mg/l]	0.03	IS 3025 (Part 49) : 1994 RA 2019

Note:

Continue to next page...

*Rajesh*  
**Rajesh Maheshwari**



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C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
11	Alkalinity - T [mg/l]	399.5	IS 3025 (Part 23) : 1986 RA 2019
12	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019
13	Total Suspended Solids [mg/l]	30	IS 3025 (Part 17) : 1984 RA 2017
14	Cobalt [mg/l]	Less than 0.05	3113 -B , APHA 24th Edition
15	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003 RA 2019

**Notes >**

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*Balram*  
**Balram Agarwal**  
Senior Analyst

*Rajesh*  
**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: TC123572610000095F )



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Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	100000095	Date :	23-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	06-02-2026
Point of Collection :	Openwell-06 [Near Government School Sultan Master Well No.6]	Date of Receipt :	09-02-2026
Date of Test/Analysis :	09-02-2026 to 23-02-2026	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
16	Total Solids [mg/l]	2102	IS 3025 (part 15) : 1984 RA 2019

### Notes -

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**Balram Agarwal**  
Senior Analyst

  
**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: 100000095)

**HINDUSTAN ZINC LIMITED**  
**KAYAD MINES**

**Ground water Analysis Report (Village)**

**Annexure-VI**

Location Parameter	Kayad Village			Lohagal Village			Gagwana Village			Chatra Village		
	Dec-25	Feb-26	Feb-26	Dec-25	Feb-26	Feb-26	Dec-25	Feb-26	Feb-26	Dec-25	Feb-26	Feb-26
Month												
pH	8.21	7.71	7.65	7.41	7.41	7.65	7.73	8.23	8.23	7.29	7.29	7.65
Hardness	288.24	245.61	217.54	219.61	219.61	217.54	117.65	157.89	157.89	239.22	239.22	238.6
Iron	<0.01	0.04	0.03	<0.01	<0.01	0.03	<0.01	0.02	0.02	<0.01	<0.01	0.03
Chloride	164.64	176.12	133.07	124.47	124.47	133.07	66.01	112.52	112.52	265.92	265.92	259.28
TDS	629	662	734	689	689	734	371	415	415	1575	1575	1604
Magnesium	14.77	14.49	25.58	27.44	27.44	25.58	9.53	15.35	15.35	44.41	44.41	40.07
Copper	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sulphate	29.65	35.76	82.05	61.35	61.35	82.05	37.25	29.18	29.18	144.35	144.35	158.7
Cadmium	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Arsenic	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Lead	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc	0.03	0.03	0.02	0.04	0.04	0.02	0.02	0.05	0.05	0.11	0.11	0.06
Alkalinity	234.84	200.6	190.4	201.88	201.88	190.4	185.4	125.8	125.8	267.8	267.8	244.8
Mercury	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cynide	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
TSS	<10	<10	<10	<10	<10	<10	<10	<10	<10	10	10	<10
Cobalt	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total Solids	635	669	743	697	697	743	376	419	419	1585	1585	1612

Except pH all data in mg/l





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JDA/UDH

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Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./JLR No. :	TC1235725100001358F	Date :	30-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	30-11-2025
Point of Collection :	Gagwana Village	Date of Receipt :	01-12-2025
Date of Test/Analysis :	01-12-2025 to 30-12-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 ; 2012
1	pH	7.73	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
2	Total Hardness [mg/l]	117.65	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
3	Iron [mg/l]	Less than 0.01	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
4	Chloride [mg/l]	66.01	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	371	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	9.53	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
7	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
8	Sulphate [mg/l]	37.25	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
9	Cadmium [mg/l]	Less than 0.001	3113 -B , APHA 24th Edition	0.003	-
10	Arsenic [mg/l]	Less than 0.001	IS 3025 (Part 37) : 1988 RA 2019	0.01	-
11	Lead [mg/l]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019	0.01	-
12	Zinc [mg/l]	0.02	IS 3025 (Part 49) : 1994 RA 2019	5	15

*Puran Malhotra*  
Puran Malhotra



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JDA/UDH

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C-Scheme, Jaipur - 302001, Rajasthan  
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Email : team.hdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
13	Alkalinity - T [mg/l]	185.4	IS 3025 (Part 23) : 1986 RA 2019	200	600
14	Mercury [mg/l]	Less than 0.001	IS 3025 (Part 48) : 1994 RA 2019	0.001	No-relaxation
15	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
16	Total Suspended Solids [mg/l]	Less than 10	IS 3025 (Part 17) : 1984 RA 2017	-	-
17	Cobalt [mg/l]	Less than 0.05	3113 -B , APHA 24th Edition	-	-
18	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003 RA 2019	0.02	-

Notes ->

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*Balram*  
**Balram Agarwal**  
Senior Analyst

*Purab*  
**Purab Nay Yogi**  
Authorized Signatory  
(Report No: TC1235725100001358F )



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JDA/UDH

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Entail : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	100001358	Date :	30-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	30-11-2025
Point of Collection :	Gagwana Village	Date of Receipt :	01-12-2025
Date of Test/Analysis :	01-12-2025 to 30-12-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
19	Total Solids [mg/l]	376	IS 3025 (part 15) : 1984 RA 2019	-	-

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Senior Analyst

  
Authorized Signatory  
(Report No: 100001358)



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Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235725100001359F	Date :	30-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	30-11-2025
Point of Collection :	Chatri Village	Date of Receipt :	01-12-2025
Date of Test/Analysis :	01-12-2025 to 30-12-2025	Sampling Plan :	IS 3025:1987(Part 1)/RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Sitaram Jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	pH	7.29	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
2	Total Hardness [mg/l]	239.22	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
3	Iron [mg/l]	Less than 0.01	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
4	Chloride [mg/l]	265.92	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	1575	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	44.41	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
7	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
8	Sulphate [mg/l]	144.35	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
9	Cadmium [mg/l]	Less than 0.001	3113 -B , APHA 24th Edition	0.003	-
10	Arsenic [mg/l]	Less than 0.001	IS 3025 (Part 37) : 1988 RA 2019	0.01	-
11	Lead [mg/l]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019	0.01	-
12	Zinc [mg/l]	0.11	IS 3025 (Part 49) : 1994 RA 2019	5	15

*Puran Mal Yogi*  
Puran Mal Yogi  
1 of 3



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
13	Alkalinity - T [mg/l]	267.8	IS 3025 (Part 23) : 1986 RA 2019	200	600
14	Mercury [mg/l]	Less than 0.001	IS 3025 (Part 48) : 1994 RA 2019	0.001	No relaxation
15	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
16	Total Suspended Solids [mg/l]	10	IS 3025 (Part 17) : 1984 RA 2017	-	-
17	Cobalt [mg/l]	Less than 0.05	3113 -B , APHA 24th Edition	-	-
18	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003 RA 2019	0.02	-

**Notes :-**

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*Balram Anand*  
Balram Anand  
Senior Analyst

*Purushottam Yogi*  
Purushottam Yogi  
Authorized Signatory

(Report No: TC1235725100001359F )



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Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	100001359	Date :	30-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	30-11-2025
Point of Collection :	Chatri Village	Date of Receipt :	01-12-2025
Date of Test/Analysis :	01-12-2025 to 30-12-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Sitaram Jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
19	Total Solids [mg/l]	1585	IS 3025 (part 15) : 1984 RA 2019	-	-

**Notes >**

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*Balraj*  
Balraj Agarwal  
Analyst

*Puran Masi Yogi*  
Puran Masi Yogi  
Authorized Signatory  
(Report No: 100001359)



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235725100001360F	Date :	30-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	30-11-2025
Point of Collection :	Village Kayad	Date of Receipt :	01-12-2025
Date of Test/Analysis :	01-12-2025 to 30-12-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	pH	8.21	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
2	Total Hardness [mg/l]	288.24	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
3	Iron [mg/l]	Less than 0.01	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
4	Chloride [mg/l]	164.64	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	629	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	14.77	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
7	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
8	Sulphate [mg/l]	29.85	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
9	Cadmium [mg/l]	Less than 0.001	3113 -B , APHA 24th Edition	0.003	-
10	Arsenic [mg/l]	Less than 0.001	IS 3025 (Part 37) : 1988 RA 2019	0.01	-
11	Lead [mg/l]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019	0.01	-
12	Zinc [mg/l]	0.03	IS 3025 (Part 49) : 1994 RA 2019	5	15

*Puran Masi Yogi*



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Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 ; 2012
13	Alkalinity - T [mg/l]	234.84	IS 3025 (Part 23) : 1986 RA 2019	200	600
14	Mercury [mg/l]	Less than 0.001	IS 3025 (Part 48) : 1994 RA 2019	0.001	No relaxation
15	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
16	Total Suspended Solids [mg/l]	Less than 10	IS 3025 (Part 17) : 1984 RA 2017	-	-
17	Cobalt [mg/l]	Less than 0.05	3113 -B , APHA 24th Edition	-	-
18	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003 RA 2019	0.02	-

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*Balram*  
**Balram Agarwal**  
Senior Analyst

*Purush*  
**Purush Yogi**  
Authorized Signatory  
(Report No: TC1235725100001360F )



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JDA/UDH

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	100001360	Date :	30-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	30-11-2025
Point of Collection :	Village Kayad	Date of Receipt :	01-12-2025
Date of Test/Analysis :	01-12-2025 to 30-12-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
19	Total Solids [mg/l]	635	IS 3025 (part 15) : 1984 RA 2019	-	-

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Balram Agarwal

Purni Mai Yogi  
Authorized Signatory  
(Report No: 100001360)



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JDA/UDH

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235725100001361F	Date :	30-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	30-11-2025
Point of Collection :	Lohagal Village	Date of Receipt :	01-12-2025
Date of Test/Analysis :	01-12-2025 to 30-12-2025	Sampling Plan :	IS 3025:1987(Part 1)/RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Sitaram Jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	pH	7.41	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
2	Total Hardness [mg/l]	219.61	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
3	Iron [mg/l]	Less than 0.01	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
4	Chloride [mg/l]	124.47	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	689	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	27.44	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
7	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
8	Sulphate [mg/l]	61.35	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
9	Cadmium [mg/l]	Less than 0.001	3113 -B , APHA 24th Edition	0.003	-
10	Arsenic [mg/l]	Less than 0.001	IS 3025 (Part 37) : 1988 RA 2019	0.01	-
11	Lead [mg/l]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019	0.01	-
12	Zinc [mg/l]	0.04	IS 3025 (Part 49) : 1994 RA 2019	5	15

Purnan Malviya



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
13	Alkalinity - T [mg/l]	201.88	IS 3025 (Part 23) : 1986 RA 2019	200	600
14	Mercury [mg/l]	Less than 0.001	IS 3025 (Part 48) : 1994 RA 2019	0.001	No relaxation
15	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
16	Total Suspended Solids [mg/l]	Less than 10	IS 3025 (Part 17) : 1984 RA 2017	-	-
17	Cobalt [mg/l]	Less than 0.05	3113 -B , APHA 24th Edition	-	-
18	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003 RA 2019	0.02	-

Notes ->

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*Balram Agarwal*  
Balram Agarwal  
Senior Analyst

*Purnima Yogi*  
Purnima Yogi  
Authorized Signatory  
(Report No: TC1235725100001361F)



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JDA/UDH

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
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Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	100001361	Date :	30-12-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	30-11-2025
Point of Collection :	Lohagal Village	Date of Receipt :	01-12-2025
Date of Test/Analysis :	01-12-2025 to 30-12-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
19	Total Solids [mg/l]	697	IS 3025 (part 15) : 1984 RA 2019	-	-

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Senior Analyst

  
Authorized Signatory  
(Report No: 100001361)



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC123572610000098F	Date :	23-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	05-02-2026
Point of Collection :	Village Kayad	Date of Receipt :	07-02-2026
Date of Test/Analysis :	07-02-2026 to 23-02-2026	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	pH	7.71	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
2	Total Hardness [mg/l]	245.61	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
3	Iron [mg/l]	0.04	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
4	Chloride [mg/l]	176.12	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	662	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	14.49	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
7	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
8	Sulphate [mg/l]	35.76	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
9	Cadmium [mg/l]	Less than 0.001	3113 -B , APHA 24th Edition	0.003	-
10	Arsenic [mg/l]	Less than 0.001	IS 3025 (Part 37) : 1988 RA 2019	0.01	-

Note:

Continue to next page...

Rajesh Maheshwari



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
11	Lead [mg/l]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019	0.01	-
12	Zinc [mg/l]	0.03	IS 3025 (Part 49) : 1994 RA 2019	5	15
13	Alkalinity - T [mg/l]	200.6	IS 3025 (Part 23) : 1986 RA 2019	200	600
14	Mercury [mg/l]	Less than 0.001	IS 3025 (Part 48) : 1994 RA 2019	0.001	No relaxation
15	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
16	Total Suspended Solids [mg/l]	Less than 10	IS 3025 (Part 17) : 1984 RA 2017	-	-
17	Cobalt [mg/l]	Less than 0.05	3113 -B , APHA 24th Edition	-	-
18	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003 RA 2019	0.02	-

**Notes >**

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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

*Balram*  
**Balram Agarwal**  
Senior Analyst

*Rajesh*  
**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: TC123572610000098F )



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JDA/UDH

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C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	100000098	Date :	23-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	05-02-2026
Point of Collection :	Village Kayad	Date of Receipt :	07-02-2026
Date of Test/Analysis :	07-02-2026 to 23-02-2026	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
19	Total Solids [mg/l]	669	IS 3025 (part 15) : 1984 RA 2019	-	-

**Notes :-**

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*Balram*  
**Balram Agarwal**  
Senior Analyst

*Rajesh Maheshwar*  
**Rajesh Maheshwar**  
Authorized Signatory  
(Report No: 100000098 )



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JDA/UDH

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C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC123572610000099F	Date :	23-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	05-02-2026
Point of Collection :	Gagwana Village	Date of Receipt :	07-02-2026
Date of Test/Analysis :	07-02-2026 to 23-02-2026	Sampling Plan :	IS 3025:1987(Part 1)/RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	pH	8.23	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
2	Total Hardness [mg/l]	157.89	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
3	Iron [mg/l]	0.02	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
4	Chloride [mg/l]	112.52	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	415	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	15.35	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
7	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
8	Sulphate [mg/l]	29.18	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
9	Cadmium [mg/l]	Less than 0.001	3113 -B , APHA 24th Edition	0.003	-
10	Arsenic [mg/l]	Less than 0.001	IS 3025 (Part 37) : 1988 RA 2019	0.01	-

Note:

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JDA/UDH

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C-Scheme, Jaipur - 302001, Rajasthan  
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Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
11	Lead [mg/l]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019	0.01	-
12	Zinc [mg/l]	0.05	IS 3025 (Part 49) : 1994 RA 2019	5	15
13	Alkalinity - T [mg/l]	125.8	IS 3025 (Part 23) : 1986 RA 2019	200	600
14	Mercury [mg/l]	Less than 0.001	IS 3025 (Part 48) : 1994 RA 2019	0.001	No relaxation
15	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
16	Total Suspended Solids [mg/l]	Less than 10	IS 3025 (Part 17) : 1984 RA 2017	-	-
17	Cobalt [mg/l]	Less than 0.05	3113 -B , APHA 24th Edition	-	-
18	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003 RA 2019	0.02	-

### Notes :-

- # Limits mentioned as per IS 10500:2012 is of Drinking water. There is no prescribed limit for Surface/Ground water etc.
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*Balram*  
**Balram Agarwal**  
Senior Analyst

*Rajesh*  
**Rajesh Maheshwari**  
Authorized Signatory

(Report No: TC123572610000099F)



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JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	100000099	Date :	23-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	05-02-2026
Point of Collection :	Gagwana Village	Date of Receipt :	07-02-2026
Date of Test/Analysis :	07-02-2026 to 23-02-2026	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
19	Total Solids (mg/l)	419	IS 3025 (part 15) : 1984 RA 2019	-	-

**Notes :-**

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**Balram Agarwal**  
Senior Analyst

**Rajesh Maheshwar**  
Authorized Signatory  
(Report No: 100000099)



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Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235726100000100F	Date :	23-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	05-02-2026
Point of Collection :	Chatri Village	Date of Receipt :	07-02-2026
Date of Test/Analysis :	07-02-2026 to 23-02-2026	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	pH	7.65	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
2	Total Hardness [mg/l]	238.6	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
3	Iron [mg/l]	0.03	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
4	Chloride [mg/l]	259.28	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	1604	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	40.07	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
7	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
8	Sulphate [mg/l]	158.70	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
9	Cadmium [mg/l]	Less than 0.001	3113 -B , APHA 24th Edition	0.003	-
10	Arsenic [mg/l]	Less than 0.001	IS 3025 (Part 37) : 1988 RA 2019	0.01	-

Note:

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Rajesh Maheshwari



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JDA/UDH

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Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
11	Lead [mg/l]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019	0.01	-
12	Zinc [mg/l]	0.06	IS 3025 (Part 49) : 1994 RA 2019	5	15
13	Alkalinity - T [mg/l]	244.8	IS 3025 (Part 23) : 1986 RA 2019	200	600
14	Mercury [mg/l]	Less than 0.001	IS 3025 (Part 48) : 1994 RA 2019	0.001	No relaxation
15	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
16	Total Suspended Solids [mg/l]	Less than 10	IS 3025 (Part 17) : 1984 RA 2017	-	-
17	Cobalt [mg/l]	Less than 0.05	3113 -B , APHA 24th Edition	-	-
18	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003 RA 2019	0.02	-

Notes :-

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**Balram Agarwal**  
Senior Analyst

**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: TC1235726100000100F)



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Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
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Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	100000100	Date :	23-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	05-02-2026
Point of Collection :	Chatri Village	Date of Receipt :	07-02-2026
Date of Test/Analysis :	07-02-2026 to 23-02-2026	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
19	Total Solids [mg/l]	1612	IS 3025 (part 15) : 1984 RA 2019	-	-

**Notes ->**

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*Balra*  
**Balram Agarwal**  
Senior Analyst

*Rajesh*  
**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: 100000100)



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JDA/UDH

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	TC1235726100000101F	Date :	23-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	05-02-2026
Point of Collection :	Lohagal Village	Date of Receipt :	07-02-2026
Date of Test/Analysis :	07-02-2026 to 23-02-2026	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	pH	7.55	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
2	Total Hardness [mg/l]	217.54	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
3	Iron [mg/l]	0.03	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
4	Chloride [mg/l]	133.07	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	734	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	25.58	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
7	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
8	Sulphate [mg/l]	82.05	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
9	Cadmium [mg/l]	Less than 0.001	3113 -B , APHA 24th Edition	0.003	-
10	Arsenic [mg/l]	Less than 0.001	IS 3025 (Part 37) : 1988 RA 2019	0.01	-

Note:

Continue to next page...

*Rajesh*

**Rajesh Maneshwari**



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Sitapura, Jaipur - 302022, Rajasthan  
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Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
11	Lead [mg/l]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019	0.01	-
12	Zinc [mg/l]	0.02	IS 3025 (Part 49) : 1994 RA 2019	5	15
13	Alkalinity - T [mg/l]	190.4	IS 3025 (Part 23) : 1986 RA 2019	200	600
14	Mercury [mg/l]	Less than 0.001	IS 3025 (Part 48) : 1994 RA 2019	0.001	No relaxation
15	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
16	Total Suspended Solids [mg/l]	Less than 10	IS 3025 (Part 17) : 1984 RA 2017	-	-
17	Cobalt [mg/l]	Less than 0.05	3113 -B , APHA 24th Edition	-	-
18	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003 RA 2019	0.02	-

### Notes ->

- # Limits mentioned as per IS 10500:2012 is of Drinking water. There is no prescribed limit for Surface/Ground water etc.
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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

*Balram*  
**Balram Agarwal**  
Senior Analyst

*Rajesh*  
**Rajesh Maheshwari**

(Report No: TC1235726100000101F)



# TEAM TEST HOUSE

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JDA/UDH

Office : E-65, Chitrangan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	100000101	Date :	23-02-2026
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	05-02-2026
Point of Collection :	Lohagal Village	Date of Receipt :	07-02-2026
Date of Test/Analysis :	07-02-2026 to 23-02-2026	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
19	Total Solids [mg/l]	743	IS 3025 (part 15) : 1984 RA 2019	-	-

**Notes :-**

- # Limits mentioned as per IS 10500:2012 is of Drinking water. There is no prescribed limit for Surface/Ground water etc.
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*Balram*  
**Balram Agarwal**  
Senior Analyst

*Rajesh*  
**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: 100000101)



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JDA/UDH

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Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./JLR No. :	25100000849	Date :	14-08-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	08-07-2025
Point of Collection :	Kayad Pond	Date of Receipt :	11-07-2025
Date of Test/Analysis :	11-07-2025 to 14-08-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Prahlad yogi
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7) : 2017 & (Part8) : 1984 RA 2017	Agreeable	-
4	Turbidity [NTU]	0.8	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
5	pH	7.01	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
6	Total Hardness [mg/l]	563.11	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
7	Iron [mg/l]	0.06	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
8	Chloride [mg/l]	406.97	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
9	Total Dissolved Solids [mg/l]	1586	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
10	Calcium [mg/l]	163.11	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00

Note:

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Puran Mai Yogi



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Email : marketinglab@teamtesthouse.com

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
11	Magnesium [mg/l]	37.75	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
12	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
13	Manganese [mg/l]	0.38	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3
14	Sulphate [mg/l]	163.26	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
15	Nitrate [mg/l]	42.18	4500-NO3- B , APHA 24th Edition	45.00	-
16	Fluoride [mg/l]	0.68	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
17	Cadmium [mg/l]	Less than 0.001	IS 3025 (Part 41) : 1992 RA 2019	0.003	-
18	Arsenic [mg/l]	Less than 0.001	IS 3025 (Part 37) : 1988 RA 2019	0.01	-
19	Lead [mg/l]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019	0.01	-
20	Zinc [mg/l]	3.08	IS 3025 (Part 49) : 1994 RA 2019	5	15
21	Chromium [mg/l]	Less than 0.05	IS 3025 (Part 52) : 2003 RA 20193	0.05	-
22	Alkalinity - T [mg/l]	39.2	IS 3025 (Part 23) : 1986 RA 2019	200	600
23	Aluminum [mg/l]	Less than 0.01	IS 3025 (Part 55) : 2003 RA 2019	0.03	0.2
24	Boron [mg/l]	0.49	4500- B C , APHA 24th Edition	0.5	2.4
25	Free residual Chlorine [mg/l]	Less than 0.1	IS 3025 (Part 26) : 1986 RA 2019	0.2(minimum)	1.0
26	Mercury [mg/l]	Less than 0.001	IS 3025 (Part 48) : 1994 RA 2019	0.001	No relaxation
27	Phenolic Compound [mg/l]	Less than 0.001	IS 3025 (Part 41) : 1992 RA 2019	0.001	0.002
28	Selenium as Se [mg/l]	Less than 0.01	IS 3025 (Part 56) : 2003 RA 2019	0.01	No relaxation

Note:

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*Puran Mai Yogi*  
**Puran Mai Yogi**



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JDA/UDH

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Email : team.bdhead@gmail.com

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Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
29	Anionic Detergents as MBA's [mg/l]	Less than 0.1	IS 13428 (Annexure K)	0.2	1.0
30	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
31	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003 RA 2019	0.02	-
32	Silver [mg/l]	Less than 0.01	3111-B, APHA 24th Edition	0.1	-
33	Ammonia [mg/l]	Less than 0.14	IS 3025 (Part 34) : 1988 RA 2019	0.5	-
34	Barium [mg/l]	Less than 0.5	IS 13428 (Annexure F)	0.7	-
35	Chloramines [mg/l]	Less than 0.1	IS 3025 (Part 26) : 1986 RA 2019	4	-

### Notes :-

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Balram Agarwal  
Senior Analyst

Purnima Malhotra  
Authorized Signatory  
(Report No: 25100000849 )



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Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	100000849	Date :	14-08-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	08-07-2025
Point of Collection :	Kayad Pond	Date of Receipt :	11-07-2025
Date of Test/Analysis :	11-07-2025 to 14-08-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Prahlad yogi
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
36	Sulphide [mg/l]	Less than 0.05	IS 3025 (Part 29) : 1986 RA 2019	0.05	-
37	Mineral oil [mg/l]	Less than 0.5	IS 3025 (Part 39) : 1991 RA 2019	1.0	-

Notes :-

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- # The samples will be destroyed after 35 days from the date of issue of test report unless otherwise specified.

*Babren*  
**Babren Agarwal**  
Senior Analyst

*Puran*  
**Puran Mai Yogi**  
Authorized Signatory  
(Report No: 100000849 )



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Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	25100000849.	Date :	14-08-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Biological	Date of Sample Collection/Monitoring :	08-07-2025
Point of Collection :	Kayad Pond	Date of Receipt :	11-07-2025
Date of Test/Analysis :	11-07-2025 to 05-08-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	1ltr	Sample Collected By :	Prahlad yogi
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Total Coliform [per 100 ml]	Absent	IS 15185:2016	Shall not be detectable in any 100 ml sample	-
2	E-Coli [per 100 ml]	Absent	IS 15185:2016	Shall not be detectable in any 100 ml sample	-

**Notes -**

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*Balram*  
**Balram Agarwal**  
Senior Analyst

*Satybhan*  
**SATYBHAN SHARMA**  
Authorized Signatory  
(Report No: 25100000849. )



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Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	25100000850	Date :	14-08-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	08-07-2025
Point of Collection :	Sarwan Talab	Date of Receipt :	11-07-2025
Date of Test/Analysis :	11-07-2025 to 14-08-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Prahiad yogi
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7) : 2017 & (Part 8) : 1984 RA 2017	Agreeable	-
4	Turbidity [NTU]	Less than 0.5	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
5	pH	7.60	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
6	Total Hardness [mg/l]	174.76	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
7	Iron [mg/l]	0.02	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
8	Chloride [mg/l]	99.26	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
9	Total Dissolved Solids [mg/l]	471	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
10	Calcium [mg/l]	38.83	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00

Note:

Continue to next page...

*Puran Mai Yogi*  
**Puran Mai Yogi**



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JDA/UDH

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Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
11	Magnesium [mg/l]	18.87	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
12	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
13	Manganese [mg/l]	Less than 0.01	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3
14	Sulphate [mg/l]	23.59	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
15	Nitrate [mg/l]	14.97	4500-NO3- B , APHA 24th Edition	45.00	-
16	Fluoride [mg/l]	0.33	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
17	Cadmium [mg/l]	Less than 0.001	IS 3025 (Part 41) : 1992 RA 2019	0.003	-
18	Arsenic [mg/l]	Less than 0.001	IS 3025 (Part 37) : 1988 RA 2019	0.01	-
19	Lead [mg/l]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019	0.01	-
20	Zinc [mg/l]	0.04	IS 3025 (Part 49) : 1994 RA 2019	5	15
21	Chromium [mg/l]	Less than 0.05	IS 3025 (Part 52) : 2003 RA 20193	0.05	-
22	Alkalinity - T [mg/l]	127.4	IS 3025 (Part 23) : 1986 RA 2019	200	600
23	Aluminum [mg/l]	Less than 0.01	IS 3025 (Part 55) : 2003 RA 2019	0.03	0.2
24	Boron [mg/l]	0.31	4500- B C , APHA 24th Edition	0.5	2.4
25	Free residual Chlorine [mg/l]	Less than 0.1	IS 3025 (Part 26) : 1986 RA 2019	0.2(minimum)	1.0
26	Mercury [mg/l]	Less than 0.001	IS 3025 (Part 48) : 1994 RA 2019	0.001	No relaxation
27	Phenolic Compound [mg/l]	Less than 0.001	IS 3025 (Part 41) : 1992 RA 2019	0.001	0.002
28	Selenium as Se [mg/l]	Less than 0.01	IS 3025 (Part 56) : 2003 RA 2019	0.01	No relaxation

Note:

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*Purans*  
Puran Mei Yogi



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Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

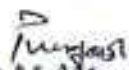
## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
29	Anionic Detergents as MBA's [mg/l]	Less than 0.1	IS 13428 (Annexure K)	0.2	1.0
30	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
31	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003 RA 2019	0.02	-
32	Silver [mg/l]	Less than 0.01	3111-B, APHA 24th Edition	0.1	-
33	Ammonia [mg/l]	Less than 0.14	IS 3025 (Part 34) : 1988 RA 2019	0.5	-
34	Barium [mg/l]	Less than 0.5	IS 13428 (Annexure F)	0.7	-
35	Chloramines [mg/l]	Less than 0.1	IS 3025 (Part 26) : 1986 RA 2019	4	-

Notes >

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Bariram Agarwal  
Senior Analyst

  
Purnima Yogi  
Authorized Signatory  
(Report No: 25100000850)



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Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	100000850	Date :	14-08-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	09-07-2025
Point of Collection :	Sarwan Talab	Date of Receipt :	11-07-2025
Date of Test/Analysis :	11-07-2025 to 14-08-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Prahlad yogi
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
36	Sulphide [mg/l]	Less than 0.05	IS 3025 (Part 29) : 1986 RA 2019	0.05	-
37	Mineral oil [mg/l]	Less than 0.5	IS 3025 (Part 39) : 1991 RA 2019	1.0	-

**Notes >**

- # Limits mentioned as per IS 10500 2012 is of Drinking water. There is no prescribed limit for Surface/Ground water etc.
- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

*Balram*  
**Balram Agarwal**  
Senior Analyst

*Puran Yogi*  
**Puran Yogi**  
Authorized Signatory  
(Report No: 100000850)



# TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)



Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

RSPCB

ISO 9001:2015,

ISO 14001:2015,

ISO 45001:2018 (OH&S)

JDA/UDH

Office : E-65, Chitranjan Marg,  
C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : www.teamtesthouse.com  
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	25100000850.	Date :	14-08-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Biological	Date of Sample Collection/Monitoring :	08-07-2025
Point of Collection :	Sarwan Talab	Date of Receipt :	11-07-2025
Date of Test/Analysis :	11-07-2025 to 05-08-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	1ltr	Sample Collected By :	Prahlad yogi
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Total Coliform [per 100 ml]	Absent	IS 15185:2016	Shall not be detectable in any 100 ml sample	-
2	E-Coli [per 100 ml]	Absent	IS 15185:2016	Shall not be detectable in any 100 ml sample	-

**Notes :-**

- # Limits mentioned as per IS 10500:2012 is of Drinking water. There is no prescribed limit for Surface/Ground water etc.
- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
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*Balram*  
**Balram Agarwal**  
Senior Analyst

*Satybhan*  
**SATYBHAN SHARMA**  
Authorized Signatory  
(Report No: 25100000850.)



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Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	25100000851	Date :	14-08-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	08-07-2025
Point of Collection :	Phool Sagar	Date of Receipt :	11-07-2025
Date of Test/Analysis :	11-07-2025 to 14-08-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Prahlad yogi
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Taste	Agreeable	IS 3025 (Part 7) : 2017 & (Part8) : 1984 RA 2017	Agreeable	-
4	Turbidity [NTU]	Less than 0.5	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
5	pH	7.23	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
6	Total Hardness [mg/l]	79.61	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
7	Iron [mg/l]	Less than 0.01	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
8	Chloride [mg/l]	64.52	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
9	Total Dissolved Solids [mg/l]	315	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
10	Calcium [mg/l]	20.19	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00

Note:

Continue to next page...

*Puran*  
**Puran Mai Yogi**



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Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
11	Magnesium [mg/l]	7.08	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
12	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
13	Manganese [mg/l]	Less than 0.01	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3
14	Sulphate [mg/l]	26.85	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
15	Nitrate [mg/l]	19.26	4500-NO3- B , APHA 24th Edition	45.00	-
16	Fluoride [mg/l]	0.29	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
17	Cadmium [mg/l]	Less than 0.001	IS 3025 (Part 41) : 1992 RA 2019	0.003	-
18	Arsenic [mg/l]	Less than 0.001	IS 3025 (Part 37) : 1988 RA 2019	0.01	-
19	Lead [mg/l]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019	0.01	-
20	Zinc [mg/l]	Less than 0.01	IS 3025 (Part 49) : 1994 RA 2019	5	15
21	Chromium [mg/l]	Less than 0.05	IS 3025 (Part 52) : 2003 RA 2019	0.05	-
22	Alkalinity - T [mg/l]	90.16	IS 3025 (Part 23) : 1986 RA 2019	200	600
23	Aluminum [mg/l]	Less than 0.01	IS 3025 (Part 55) : 2003 RA 2019	0.03	0.2
24	Boron [mg/l]	0.45	4500- B C , APHA 24th Edition	0.5	2.4
25	Free residual Chlorine [mg/l]	Less than 0.1	IS 3025 (Part 26) : 1986 RA 2019	0.2(minimum)	1.0
26	Mercury [mg/l]	Less than 0.001	IS 3025 (Part 48) : 1994 RA 2019	0.001	No relaxation
27	Phenolic Compound [mg/l]	Less than 0.001	IS 3025 (Part 41) : 1992 RA 2019	0.001	0.002
28	Selenium as Se [mg/l]	Less than 0.01	IS 3025 (Part 56) : 2003 RA 2019	0.01	No relaxation

Note:

Continue to next page...

*Puran Mal Yogi*  
**Puran Mal Yogi**



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Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
29	Anionic Detergents as MBA's [mg/l]	Less than 0.1	IS 13428 (Annexure K)	0.2	1.0
30	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
31	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003 RA 2019	0.02	-
32	Silver [mg/l]	Less than 0.01	3111-B, APHA 24th Edition	0.1	-
33	Ammonia [mg/l]	Less than 0.14	IS 3025 (Part 34) : 1988 RA 2019	0.5	-
34	Barium [mg/l]	Less than 0.5	IS 13428 (Annexure F)	0.7	-
35	Chloramines [mg/l]	Less than 0.1	IS 3025 (Part 26) : 1986 RA 2019	4	-

**Notes :-**

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*Balram*  
**Balram Agarwal**  
Senior Analyst

*Puraj*  
**Puraj Mehta**  
Authorized Signatory  
(Report No: 25100000851 )



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Email : director@teamtesthouse.com,  
Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./JLR No. :	100000851	Date :	14-08-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	08-07-2025
Point of Collection :	Phool Sagar	Date of Receipt :	11-07-2025
Date of Test/Analysis :	11-07-2025 to 14-08-2025	Sampling Plan :	IS 3025:1987(Part 1)/RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Prahlad yogi
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
36	Sulphide [mg/l]	Less than 0.05	IS 3025 (Part 29) : 1986 RA 2019	0.05	-
37	Mineral oil [mg/l]	Less than 0.5	IS 3025 (Part 39) : 1991 RA 2019	1.0	-

**Notes :-**

- \* Limits mentioned as per IS 10500:2012 is of Drinking water. There is no prescribed limit for Surface/Ground water etc.
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*Balram*  
**Balram Agarwal**  
Senior Analyst

*Puran*  
**Puran Mal Yogi**  
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## TEST REPORT

Report No./ULR No. :	25100000851.	Date :	14-08-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Biological	Date of Sample Collection/Monitoring :	08-07-2025
Point of Collection :	Phool Sagar	Date of Receipt :	11-07-2025
Date of Test/Analysis :	11-07-2025 to 05-08-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	1ltr	Sample Collected By :	Prahlad yogi
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Total Coliform [per 100 ml]	Absent	IS 15185:2016	Shall not be detectable in any 100 ml sample	-
2	E-Coli [per 100 ml]	Absent	IS 15185:2016	Shall not be detectable in any 100 ml sample	-

### Notes -

- # Limits mentioned as per IS 10500:2012 is of Drinking water. There is no prescribed limit for Surface/Ground water etc.
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**Balram Agarwal**  
Senior Analyst

*Satybhan*  
**SATYBHAN SHARMA**  
Authorized Signatory  
(Report No: 25100000851. )



Hindustan Zinc Limited

Kayat Mine

STP pH& Turbidity Monitoring Report Oct 25 to Mar 26

Annexure-VII											
Month	pH	Turbidity	Month	pH	Turbidity	Month	pH	Turbidity	Month	pH	Turbidity
01/10/2025	7.0	3.3	01/11/2025	7.4	2.9	01/12/2025	7.8	1.9	01/01/2026	7.3	2.4
02/10/2025	7.8	2.2	02/11/2025	7.5	3.6	02/12/2025	7.5	1.8	02/01/2026	7.3	2.7
03/10/2025	7.6	2.2	03/11/2025	7.4	3.8	03/12/2025	7.4	1.8	03/01/2026	7.4	2.4
04/10/2025	7.4	2.4	04/11/2025	7.5	3.3	04/12/2025	7.3	2.2	04/01/2026	7.3	2.7
05/10/2025	7.5	2.5	05/11/2025	7.8	1.7	05/12/2025	7.4	2.5	05/01/2026	7.1	2.4
06/10/2025	7.4	2.8	06/11/2025	7.4	2.1	06/12/2025	7.7	2.8	06/01/2026	7.4	2.1
07/10/2025	7.8	2.1	07/11/2025	7.7	2.8	07/12/2025	7.8	2.4	07/01/2026	7.4	1.9
08/10/2025	7.5	2.8	08/11/2025	7.4	2.8	08/12/2025	7.4	3.4	08/01/2026	7.8	1.8
09/10/2025	7.3	2.8	09/11/2025	7.7	2.5	09/12/2025	7.3	2.6	09/01/2026	7.1	2.4
10/10/2025	7.5	2.4	10/11/2025	7.4	2.7	10/12/2025	7.5	2.1	10/01/2026	7.4	1.2
11/10/2025	7.2	2.9	11/11/2025	7.7	2.6	11/12/2025	6.9	2.9	11/01/2026	7.6	2.4
12/10/2025	7.3	2.8	12/11/2025	7.8	3.6	12/12/2025	7.3	2.6	12/01/2026	7.3	2.1
13/10/2025	7.4	1.9	13/11/2025	7.9	2.9	13/12/2025	7.6	2.9	13/01/2026	7.5	1.8
14/10/2025	7.3	1.7	14/11/2025	7.4	2.1	14/12/2025	7.6	2.4	14/01/2026	7.6	2.1
15/10/2025	7.5	2.1	15/11/2025	7.4	2.1	15/12/2025	7.7	2.7	15/01/2026	7.6	1.7
16/10/2025	7.2	2.8	16/11/2025	7.2	2.2	16/12/2025	7.8	2.9	16/01/2026	7.4	2.2
17/10/2025	7.9	2.7	17/11/2025	6.9	2.5	17/12/2025	7.8	3.4	17/01/2026	7.2	2.3
18/10/2025	7.8	3.3	18/11/2025	7.3	1.8	18/12/2025	7.2	3.8	18/01/2026	7.8	2.3
19/10/2025	7.8	2.2	19/11/2025	7.4	2.3	19/12/2025	7.4	2.3	19/01/2026	7.4	1.8
20/10/2025	7.9	2.2	20/11/2025	7.1	2.2	20/12/2025	7.3	2.3	20/01/2026	7.3	1.6
21/10/2025	7.4	2.3	21/11/2025	7.3	1.5	21/12/2025	7.5	2.2	21/01/2026	7.3	2.3
22/10/2025	7.1	2.2	22/11/2025	7.7	1.8	22/12/2025	7.6	2.5	22/01/2026	7.2	2.6
23/10/2025	7.3	1.8	23/11/2025	7.5	2.1	23/12/2025	7.4	1.5	23/01/2026	7.3	2.3
24/10/2025	7.5	2.4	24/11/2025	7.6	2.1	24/12/2025	7.1	2.3	24/01/2026	7.4	2.7
25/10/2025	7.7	2.1	25/11/2025	7.6	2.5	25/12/2025	7.3	2.4	25/01/2026	7.1	2.5
26/10/2025	7.6	2.1	26/11/2025	7.4	1.7	26/12/2025	7.8	3.1	26/01/2026	6.9	2.2
27/10/2025	7.2	2.3	27/11/2025	7.5	2.1	27/12/2025	7.0	3.1	27/01/2026	7.1	2.2
28/10/2025	7.4	1.2	28/11/2025	7.6	2.8	28/12/2025	7.4	2.7	28/01/2026	7.6	2.4
29/10/2025	7.3	2.4	29/11/2025	7.1	2.7	29/12/2025	7.2	2.4	29/01/2026	7.3	2.4
30/10/2025	7.5	2.9	30/11/2025	7.6	2.3	30/12/2025	6.8	2.1	30/01/2026	7.1	2.9
31/10/2025	7.7	2.8					6.2	2.4	31/01/2026	6.8	3.1



Annexure-VIII						
Environment Expenditure (Oct-25 to Mar-26)						
Month	Oct-25	Nov-25	Dec-25	Jan-26	Feb-26	Mar-26
Expenditure (Lacs)	10.3	7.4	7.7	8.0	11.7	4.3
Total (in Lacs)						49.3





Head Office (Miner),  
Rajasthan State Pollution Control Board  
4, Institutional Area, Balrana Bypass, Jaipur-302 004  
Phone: 0141-2716814, 2716813 Fax: 0141-2716814



## Registered

File No. Koyar(Ajmer)(Miner)/303(1)/2017-2018/5569-SEAT

Order No. 2023-2023/Miner/10692

Date: 04/01/2023

Unit id.: 11254

M/s Hindustan Zinc Limited (Koyar Mine)

P.O. Koyar, Ajmer-305 023,

District Ajmer

E-Mail: kastoor.mesta@vodafone.in

For Grant of Consent to Operate under Section 21(4) of Air (Prevention & Control of Pollution) Act, 1986 and under Section 23(4) of Water (Prevention & Control of Pollution) Act, 1974 for your Major Mineral Mine at Near Village-Koyar, Tehsil-Ajmer, District Ajmer (M.L.No-16/92).

Note: (i) Your applications dated 23/09/2022.

(ii) Received on 23/09/2022.

(iii) Received at Head office on 23/09/2022.

So,

In view of the details submitted vide your above referred applications, documents, the Consent to Operate under Section 21(4) of Air (Prevention & Control of Pollution) Act, 1986 and under Section 23(4) of Water (Prevention & Control of Pollution) Act, 1974 is hereby granted for carrying mining activities. This consent is subject to the following stipulations:

1. That this consent is being granted in favour of M/s. Hindustan Zinc Limited (Koyar Mine), a Mine of Major Mineral having M.L.No. 16/92 is an area measuring 480.4500 Hectares at Near Village Koyar, Tehsil Ajmer, District Ajmer.

2. That this consent is valid for a period from 01/02/2023 to 31/01/2028.

3. That this consent is valid for following mining activities:-

Mineral	Permitted Mining Capacity
LEAD & ZINC ORE (ROM)	12000 TANNES PER ANNUM

4. That the project/proponent will comply with the Standard as prescribed vide the Ministry of Environment Forest and Climate Change notification no. GEM 826(E) dated 15th November, 2009 with respect to National Ambient Air Quality standards.

Signature valid

Dr. J. K. Sharma  
Secretary  
Rajasthan State Pollution Control Board  
Jaipur





Head Office (Mines)  
Rajasthan State Pollution Control Board  
4, Institutional Area, Jhalana Doongari, Jaipur-302 004  
Phone: 0141-2716814,2716813 Fax: 0141-2716814

Registered

File No F(Mines)/Ajmer(Ajmer)/303(1)/2017-2018/5559-5563

Order No 2022-2023/Mines/10692

Date: 06/01/2023

Unit Id : 11,254

- 5 That this consent to establish/consent to operate is only for carrying out mining of mineral/ore and not for any processing/beneficiation or crushing/grinding of ore/mineral for which a separate application for consent to establish and/or consent to operate should be submitted. The project proponent is required to obtain separate consent to establish and consent to operate for carrying out mining of other mineral(s), if any or processing/beneficiation of such mineral(s) and for any addition/modification/alteration or change in process.
- 6 That this Consent to Operate is for mining / processing / beneficiation of product as mentioned above in M.L.No.-16/92 and a separate Consent to Operate is required to be obtained for any other Mineral mining/ processing/ beneficiation Plant/process if any and for any addition/ modification/ alteration or change in process.
- 7 That the occupier/operator of mine shall ensure that all the conditions imposed in the Environmental Clearance granted by MoEF&CC dated 05.02.2018.
- 8 That this consent is valid for production of Lead & Zinc Ore (ROM) @ 1.2 Million TPA Tonnes per Annum. For any change in product and/or increase in capacity/lease area, the mine has to seek fresh Environmental Clearance, consent to establish & consent to operate
- 9 That the lessee shall submit monitoring report of Ambient Air Quality within the lease area, once in 3 months
- 10 That plantation shall be developed so as to cover at least 33% of the total land use for mining and allied activities as given in Approved Mining Plan and shall be maintained at all the time to maintain ambient air quality around the mine.
- 11 That ground water shall not be abstracted without prior permission of the Central Ground Water Authority (CGWA).
- 12 That haul roads should be regularly graded and compacted. Regular water sprinkling should be carried out on haul roads to minimize dust generations
- 13 That adequate measure shall be taken for control of fugitive emissions from the areas prone to air pollution.
- 14 That you shall not operate any stone crusher/mineral grinding/mineral processing plant within said lease without obtaining prior consent of the State Board.
- 15 That this consent to Operate shall not be valid, if the lessee has not obtained permissions required, if any, from NBWL/Forest Department etc. with respect to Wild Life Sanctuary /National Parks/ Critical Tiger Habitats in compliance of various orders passed by any other law/act/rule/ regulation or order of MoEF&CC and/or any Court/Tribunal time to time

Signature valid

Digitally signed by Manoj Choudhary  
Date: 2023.01.06 10:18:06 IST  
Reason: Satisfactory  
Location:





Head Office (Mines)  
Rajasthan State Pollution Control Board  
6, Institutional Area, Jhalana Doongari, Jaipur-302 004  
Phone: 0141-2716814,2716813 Fax: 0141-2716814

Registered

File No F(Mines)/Ajmer(Ajmer)/303(1)/2017-2018/5559-5563

Order No 2022-2023/Mines/10692

Date: 06/01/2023

Unit Id : 11254

- 16 That regular water sprinkling should be carried out in critical areas prone to air pollution and having high levels of SPM and RSPM such as on haul road, loading and unloading points and transfer points.
- 17 That the mine shall install adequately designed rain water harvesting structure for prevention and recharge of ground water in and around the lease area.
- 18 That the mine shall not allow making any obstacles to any natural water flow i.e., natural nallah/stream carrying rain water to any water body.
- 19 That the mine shall not allow unauthorized disposal of any solid waste on land inside or outside the premises.
- 20 That this consent to Operate shall be subject to compliance of direction/order passed by Courts of Law in the matter, if any
- 21 That the lessee should dump the overburden in such a manner that it does not get washed away to nearby water tanks and lakes etc. during rainy season
- 22 That the lease shall not intersect the ground water table without permission of CGWA.
- 23 This consent shall be subject to validity of mining lease.
- 24 That all other general conditions enclosed as Annexure shall be strictly complied with.
- 25 That this Consent is subject to the conditions as stated above and general conditions as stated in Annexure. Further, the mining unit will comply with the provisions of the Air (Prevention & Control of Pollution) Act, 1981 & Water (Prevention & Control of Pollution) Act, 1974 and any such conditions as may be specified from time to time by the State Board under the provisions of the aforesaid Acts.
- 26 That the grant of this Consent to Operate is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the industry/ unit/ project proponent.
- 27 That the grant of this Consent to Operate shall not, in any way, adversely affect or jeopardize the legal proceedings, if any, instituted in the past or that could be instituted against you by the State Board for violation of the provisions of the Act or the Rules made thereunder.

Signature valid

  
Digitally signed by: Vinod Chandra  
Date: 2023.01.06 11:06:10  
Reason: Certificate  
Location:





Head Office (Mines)  
Rajasthan State Pollution Control Board  
6, Institutional Area, Jhalana Dooargah, Jaipur-302 004  
Phone: 0141-2716814,2716813 Fax: 0141-2716814

Registered

File No F(Mines)/Ajmer(Ajmer)/303(1)/2017-2018/5559-5563

Order No 2022-2023/Mines/10692

Date: 06/01/2023

Unit Id : 11254

25 That the grant of this consent to establish/operate is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other legal instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time being in force, rests with the Industry/unit/project proponent.

This bears approval of the competent authority.

Encl. As Above

Yours sincerely,

Group Incharge-Mines

(A) Copy To:-

1. Director, Department of Mines & Geology, Government of Rajasthan, Shastri Circle, Udaipur.
2. Regional Officer, Regional Office, Rajasthan State Pollution Control Board, Kidanigarh-please ensure compliance of the consent conditions and monitor time to time
3. Mining Engineer, Department of Mines & Geology, Government of Rajasthan, Ajmer -To inform that this consent has been issued from the environmental angle only, and ensuring compliance of any other law/act/rule/regulation or order of any Court/Tribunal is the sole responsibility of the project proponent and the concerned departments
4. Master File.

(B):

1. The Additional PCOP (WL) and Chief Wildlife Warden, Aranya Shikhar, Jhalana Institutional Area, Jaipur(DCF(WL), Ajmer, To inform that the consent has been issued from the environmental angle only, and ensuring compliance of any other law/act/rule/regulation or order of any Court/Tribunal is the sole responsibility of the project proponent and the concerned departments

Group Incharge-Mines

Signature valid

Digitally signed by: Group Incharge  
Date: 2023.01.06 10:06:10  
Reason: Satisfactory  
Location:





Head Office (Mines)  
Rajasthan State Pollution Control Board  
6, Institutional Area, Balotra Bypass, Jaipur-302 004  
Phone: 0141-2728914, 2736013 Fax: 0141-2736034



## Registered

File No. T(Mines)A/Amr/303(1)/2017-2018/559-563

Order No. 2023/333/Mines/10692

Date: 06/01/2023

Mat No: 13254

M/s Hindustan Zinc Limited (Koyar Mine)

P.O. Koyar, Ajmer-305 025,

District Ajmer

E-Mail: ksharor.meena@rediffmail.com

**Sub:** Grant of Consent to Operate under Section 21(4) of Air (Prevention & Control of Pollution) Act, 1986 and under Section 25(26) of Water (Prevention & Control of Pollution) Act, 1974 for your Major Mineral Mine at near Village-Koyar, Tehsil-Ajmer, District-Ajmer (M.L.No-16/92).

**Ref:** (i) Your applications dated 27/09/2022  
(ii) Received on 23/09/2022  
(iii) Received at Head Office on 27/09/2022

ST.

In view of the details submitted vide your above referred applications, documents, the Consent to Operate under Section 21(4) of Air (Prevention & Control of Pollution) Act, 1986 and under Section 25(26) of Water (Prevention & Control of Pollution) Act, 1974 is hereby granted for carrying mining activities. This consent is subject to the following conditions:

1. That this consent is being granted in favour of M/s. Hindustan Zinc Limited (Koyar Mine), a Mine of Major Mineral having M.L.No. 16/92 in an area measuring 400.450 Hectares at near Village-Koyar, Tehsil-Ajmer, District-Ajmer.
2. That this consent is valid for a period from 01/07/2023 to 31/01/2028
3. That this consent is valid for following mining activities:-

Mines	Permitted Mining Capacity
1. LEAD & ZINC ORE (ZSM)	120000 TANN/CY/ANNUM

4. That the project proposal will comply with the Standard as prescribed vide the Ministry of Environment, Forest and Climate Change Notification no GSE 826(E) dated 16th November, 2009 with respect to National Ambient Air Quality standards.

Signature valid

Digital Sign of Anil Kumar Choudhary  
Date: 2023-01-06 14:05:17  
Format: DER-SIGNED  
Location:





Head Office (Mines)  
Rajasthan State Pollution Control Board  
8, Institutional Area, Jhalana Doongari, Jaipur-302 004  
Phone: 0141-2716814,2716813 Fax: 0141-2716814

Registered

File No F(Mines)/Ajmer(Ajmer)/303(1)/2017-2018/5559-5563

Order No 2022-2022/Mines/10692

Date: 06/01/2023

Unit Id : 11254

- 5 That this consent to establish/consent to operate is only for carrying out mining of mineral/ore and not for any processing/beneficiation or crushing/grinding of ore/mineral for which a separate application for consent to establish and/or consent to operate should be submitted. The project proponent is required to obtain separate consent to establish and consent to operate for carrying out mining of other mineral(s), if any or processing/beneficiation of such mineral(s) and for any addition/modification/alteration or change in process.
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- 7 That the occupier/operator of mine shall ensure that all the conditions imposed in the Environmental Clearance granted by MoEF&CC dated 05.02.2018.
- 8 That this consent is valid for production of Lead & Zinc Ore (ROM) @ 1.2 Million TPA Tonnes per Annum. For any change in product and/or increase in capacity/lease area, the mine has to seek fresh Environmental Clearance, consent to establish & consent to operate
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- 11 That ground water shall not be abstracted without prior permission of the Central Ground Water Authority (CGWA).
- 12 That haul roads should be regularly graded and compacted. Regular water sprinkling should be carried out on haul roads to minimize dust generations
- 13 That adequate measure shall be taken for control of fugitive emissions from the areas prone to air pollution.
- 14 That you shall not operate any stone crusher/mineral grinding/mineral processing plant within said lease without obtaining prior consent of the State Board.
- 15 That this consent to Operate shall not be valid, if the lessee has not obtained permissions required, if any, from NWL/Forest Department etc. with respect to Wild Life Sanctuary /National Parks/ Critical Tiger Habitats in compliance of various orders passed by any other law/act/rule/ regulation or order of MoEF&CC and/or any Court/Tribunal time to time

Signature valid

Digital: signed by Manoj Choud  
Date: 2023.01.06 11:08:10T  
Reason: Self-Authorized  
Letabani





**पर्यावरण**
 **INSTRUM**

A. स्थल का नाम & पता		विद्युत/कि. विद्युत/वायु का जल/ASSTG					
अवकाश/आवृत्ति में स्थिति/के लिए (विद्युत/वायु का जल)		अवकाश/आवृत्ति					
B. आवासीय कार्यों का विवरण							
रा.।	वर्ग मीटर	इस/विद्युत/वायु/जल/आवृत्ति/वायु का जल/ASSTG					
इकाई का विवरण							
रा.।	वर्ग मीटर	अवकाश/आवृत्ति	अवकाश/आवृत्ति	अवकाश/आवृत्ति	अवकाश/आवृत्ति	अवकाश/आवृत्ति	अवकाश/आवृत्ति
वायु गुणवत्ता (µg/m <sup>3</sup> )	SPM	PM10	PM2.5	SO <sub>2</sub>	NO <sub>x</sub>	CO	वायु गुणवत्ता (µg/m <sup>3</sup> )
म. र.	201.05	73.65	35.45	4.20	13.08	585	8.48
प. र.	204.72	84.38	33.38	4.05	12.87	365	
विशेष नोट्स	185.48	77.80	38.38	4.30	17.44	325	

Annexure -XII



Annexure -XIII



Annexure -XIV



Annexure -XV



Annexure -XVI



# LAND USE / LAND COVER STUDY REPORT

Kayad Mine, Ajmer, Rajasthan

Land Use Mapping by Digital Processing Using  
Remote Sensing & GIS Techniques



**Sponsor: Hindustan Zinc Limited, Kayad Underground Mine**

**Studied by:**



**Estb: 1988**

**Studied for:**



**Hydro-Geosurvey Consultants Private Limited**



**CERTIFICATE NO.: NABET/GWCO/IA/GW003**

**C-103, Shastri Nagar, Jodhpur- 342003**

**Phone: - 0291-2431754**

**Web: [www.hydrogeosurvey.com](http://www.hydrogeosurvey.com), E-mail: - [hydro.geosurvey@yahoo.com](mailto:hydro.geosurvey@yahoo.com)**

**May, 2026**

**LAND USE / LAND COVER STUDY REPORT**  
**Kayad Mine, Ajmer, Rajasthan**  
Land Use Mapping by Digital Processing Using Remote Sensing & GIS Techniques

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 Land Use Mapping by Digital Processing Using Remote Sensing & GIS Techniques

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**LAND USE / LAND COVER STUDY REPORT**  
**Kayad Mine, Ajmer, Rajasthan**  
**Land Use Mapping by Digital Processing Using Remote Sensing & GIS Techniques**

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Annexure-I: Certificate of NABET Accreditation with Expert List.

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## 1.0 INTRODUCTION

Hindustan Zinc Limited, (HZL) is carrying out underground mining of Lead and Zinc ores near village Kayad, tehsil and district Ajmer, Rajasthan. Kayad mine was granted environmental clearance from the Ministry of Environment & Forests (MoE&F) for 1.2 MTPA on 25.02.2018 vide letter NO. J-11015/47/2012-IA.II(M). CGWA also issued the NOC for 700 m<sup>3</sup>/day (25,5500 m<sup>3</sup>/year) vide NOC No CGWA/NOC/MIN/REN/4/2025/11265 validity of 09.10.2026.

Now, it has been asked by the MoEFCC in its EC that HZL may take up monitoring of land use pattern once in three years by digital processing of the buffer zone (10 km. radius) of mining lease area.

For such studies, **SK Khaitan Infraprojects Private Limited**, an associate company of Hindustan Zinc Limited (HZL), had issued Work Order No. RRTSP25/25900008/JANUARY/2026 dated 31/01/2026 to Hydro-Geosurvey Consultants Pvt. Ltd., an accredited groundwater organization by QCI-NABET (certificate attached), which had earlier carried out comprehensive hydrogeological studies of the lease area and its 10 km radius buffer zone, including estimation of groundwater inflow through modeling studies for obtaining CGWA NOC for groundwater abstraction of 700 m<sup>3</sup>/day from CGWA.

The present report contains the integrated Land Use/Land Cover (LULC) map of the 10 km buffer zone of the mining lease area along with thematic layers prepared using satellite data interpretation and GIS techniques. The report also includes comparative analysis of the land use studies carried out for the year 2022 to assess temporal changes in land utilization patterns within the study area.

Particulars	Details
Executing Agency	Hindustan Zinc Limited (HZL), Kayad Mine
Associate Company	SK Khaitan Infraprojects Private Limited
Consultant Agency	Hydro-Geosurvey Consultants Pvt. Ltd.
Accreditation	QCI-NABET Accredited Groundwater Organization
Work Order No. & Date	RRTSP25/25900008/JANUARY/2026 dated 31/01/2026
Study Area	10 km <sup>2</sup> buffer zone of lease area
Scope of Study	Land Use Mapping by Digital Processing Using Remote Sensing & GIS Techniques of Kayad Mine
Purpose	As per EC Compliance

## 2.0 SITE DETAILS AND LOCATION

The site is located at an aerial distance of ~10 km NNE of Ajmer City and ~14 km NE of Pushkar City. The site location map is shown as **Figure-1**. The study area is geographically located in district Ajmer, Rajasthan. The Kayad Mine covers an area 480 hectares the buffer zone of 10 km radius comprises of 414.15 km<sup>2</sup>.



## LAND USE / LAND COVER STUDY REPORT

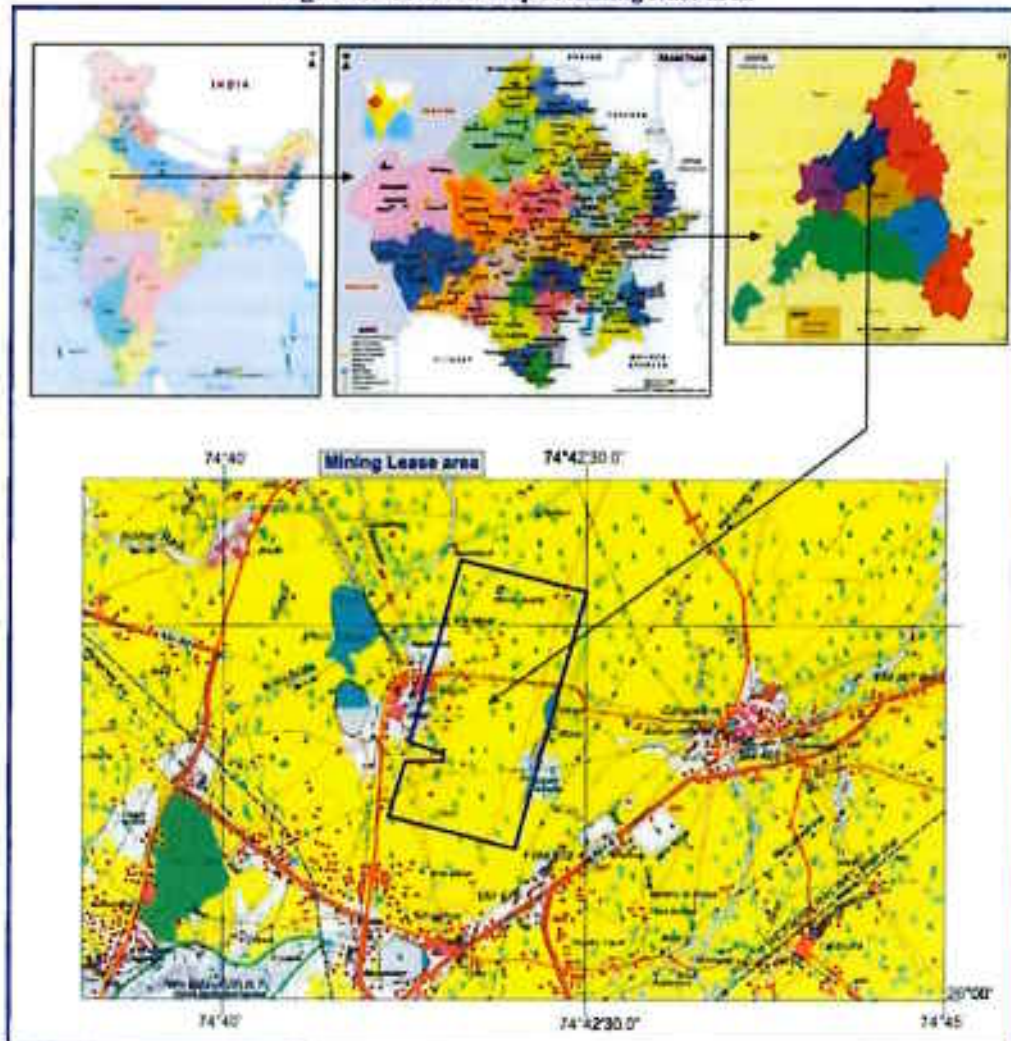
Kayad Mine, Ajmer, Rajasthan

Land Use Mapping by Digital Processing Using Remote Sensing & GIS Techniques



The lease area is connected via NH-58 & NH-448. Nearest railway station Madar Junction ~7.5 km in South direction from lease area. The nearest Airport is Kishangarh Airport, Kishangarh about ~14 km. in NE direction. The project location is provided as Figure-1.

Figure-1: Location map of mining lease area



### 2.1 Study Area Delineation (10 km Buffer Zone)

For preparation of the 10 km radius buffer zone map, a spatial buffer was generated around the mine lease boundary using standard GIS techniques. The buffer delineation was carried out to define the area in accordance with regulatory requirements.





The study area is located in the Ajmer District of Rajasthan. Geographically, the buffer zone extends between latitude 26°30'58.80" N to 26°32'55.97" N and longitude 74°41'00.93" E to 74°42'31.71" E. The delineated buffer area forms the basis for environmental baseline assessment, thematic interpretation, and spatial analysis of the surrounding region (Table-1).

Table-1: Study Area Details

S. No.	Particulars	Details
1	Location	Ajmer District, Rajasthan
2	Latitude Extent	26°30'58.80" N to 26°32'55.97" N
3	Longitude Extent	74°41'00.93" E to 74°42'31.71" E
4	Total Lease Area	480.45 ha
5	Total Acquired Area	48.50 ha
6	Total Buffer Area (10 km Radius)	414.15 km <sup>2</sup>
7	Toposheets Used	45J/10, 45J/11, 45J/14 & 45J/15
8	Purpose of Buffer Delineation	Thematic mapping and Land Use/Land Cover (LULC) analysis

### 3.0 HYDROLOGY OF NAHAR AND RUPANGARH RIVERS

#### 3.1 Regional Drainage System

The Kayad Mine of Hindustan Zinc Limited is situated in Ajmer within the semi-arid terrain of the Aravalli region. Although there is a well defined drainage system having dendritic drainage pattern in the buffer zone, a major part of drainage has been harnessed by constructing minor irrigation projects and tanks. Whatever runoff is produced by the rainfall in the buffer zone, major part goes as surface runoff after meeting the evapo-transpiration losses and a part percolates to the zone of saturation.

The mine area falls under the catchment of the Nahar River, which further contributes to the Rupangarh River basin. The drainage characteristics of the study area are summarized below:

- **Nahar River Catchment:**  
The mine lease area falls within the catchment of the Nahar River, which acts as the primary local drainage channel in the region.
- **Seasonal Drainage System:**  
The drainage network in and around the mine area remains mostly dry during non-monsoon periods and carries flow primarily during the monsoon season.
- **Influence of Aravalli Topography:**  
The drainage pattern is largely controlled by the undulating terrain and hill slopes of the Aravalli range, guiding the natural flow direction of runoff.
- **Ultimate Basin Connectivity:**





Surface runoff generated from the area ultimately drains towards the Sambhar Lake basin through the inland drainage system of Rajasthan.

### 3.2 Hydrology of Nahar River

The Nahar River originates from the elevated hill ranges located near the Lohagal and Makarwali areas of Ajmer. The river flows predominantly in the north-northeast direction through several villages and seasonal drainage channels of the region. The key hydrological characteristics of the river are summarized below:

- **Origin of the River:**  
The Nahar River originates from the hill slopes and elevated terrains near the Makarwali and Lohagal areas of Ajmer district.
- **Flow Direction:**  
The river generally flows in the north-northeast direction, following the natural topographic gradient of the region.
- **Seasonal Nature:**  
The river is ephemeral and carries substantial flow mainly during the southwest monsoon period, while remaining mostly dry during the rest of the year.
- **Surface Runoff Drainage:**  
The river and its associated seasonal channels support the drainage and disposal of surface runoff generated during rainfall events.
- **Groundwater Recharge Contribution:**  
During the monsoon season, infiltration from the riverbed and adjoining drainage channels contributes significantly to local groundwater recharge.

### 3.3 Hydrology of Rupangarh River

The Rupangarh River is an important inland river system of Rajasthan, originating from the Nag Pahad hill ranges situated between Pushkar and Ajmer. The river receives runoff from several seasonal streams and local drainage channels, including contributions from the Nahar River system. Hydrologically, the basin is characterized by low perennial flow conditions and a high dependence on monsoon rainfall. The major hydrological features of the Rupangarh River system are summarized below:

- **Origin of the River:**  
The Rupangarh River originates from the Nag Pahad hill ranges and reserve forest area located between Pushkar and Ajmer.
- **Seasonal Tributary Contribution:**





The river receives runoff and flow contributions from several ephemeral tributaries and seasonal drainage channels, including the Nahar River system.

- **Inland Drainage System:**  
The river forms an integral part of the inland drainage network of Rajasthan, where runoff does not directly reach the sea.
- **Rainfall-Dependent Flow:**  
Flow in the river is predominantly dependent on monsoon rainfall, with limited or negligible flow during dry seasons.
- **Ultimate Discharge:**  
The river system ultimately drains towards the Sambhar Lake basin, which acts as the terminal inland basin of the region.

### 3.4 Climate

The nearest IMD meteorological station in Nahar river sub-basin is at Ajmer which is hardly few km in west. The climatic conditions as recorded at Ajmer therefore can be considered applicable for the buffer zone of Kayad mine.

The Indian Meteorological Department (IMD) has divided Rajasthan in two meteorological sub-divisions, i.e. west Rajasthan and east Rajasthan and the sub-basin falls in east Rajasthan sub-division.

Based on Koppen classification of climatic pattern, the sub-basin may be classified as tropical steppe, semi-arid and hot. The year is divided in to four seasons. The winter season is from mid-December to February and is followed by the hot summer season from March to mid-July, including the pre-monsoon season from April to June. The period from July to mid-September constitutes the south west monsoon season and the period from the later half of September to mid-December as post monsoon season.

#### 3.4.1 Temperature

Temperature records from Ajmer observatory are available for 60 years. The period from April to June is marked by continuous increase in the temperatures. May is the hottest months of the year with a mean daily maximum and minimum temperature (in May) of 39.5°C and 27.3°C respectively. Night temperatures in June are relatively higher than the May. With the onset of south west monsoon by about mid-June, the temperatures go down considerably. From November onwards, both the day and night temperatures decrease and January, the coldest month, with daily maximum and minimum temperatures of 22.2°C and 7.3°C (Table-3).

The annual range in temperature i.e. the difference between extreme maximum and minimum temperatures may be over 45°C. The highest temperature for the period for which data are available was 45.6°C recorded on 11th June 1901 while the lowest temperature-2.8°C recorded on 16<sup>th</sup> January 1935.



### 3.4.2 Rainfall

Average annual rainfall based on rainfall data recorded at Kayad mines (Ajmer), for last 20 years (2006-2025) has been observed as 587.95 mm. The annual rainfall as recorded at Kayad mines for 2025 is 705 mm. The following table (Table-2) gives the annual rainfall recorded at Kayad mine (Ajmer) from 2006.

Table-2: Rainfall recorded at Kayad Mines Station, Ajmer

S. No.	Year	Rainfall (mm)	S. No.	Year	Rainfall (mm)
1.	2006	417	11.	2016	557
2.	2007	441	12.	2017	440
3.	2008	702	13.	2018	385
4.	2009	283	14.	2019	885
5.	2010	653	15.	2020	593
6.	2011	492	16.	2021	553
7.	2012	596	17.	2022	744
8.	2013	707	18.	2023	729
9.	2014	578	19.	2024	821
10.	2015	478	20.	2025	705

Source: Rain gauge station Kayad mine.

Average annual rainfall (Year 2006-2023): 587.95 mm (@ Kayad mine)

Total rainfall for year 2025: 705 mm (@ Kayad mine)

### 3.4.3 Humidity

Relative humidity during the south west monsoon is generally over 60%. During the rest of the year, air is normally dry. Relative humidity during summer afternoon is as low as 20% while during monsoon, it does not go more than 80%. The mean annual humidity values in the morning are 56% and in the evening 35%.

### 3.4.4 Cloudiness

Skies are generally moderately to heavily clouded during southwest monsoon season, being overcast on some days. During the rest of the year, the skies are normally clear to lightly clouded. During the months of July-August, the mean cloudiness (in Oktas) is usually more than 5, being generally higher in the evenings than the mornings.

### 3.4.5 Winds

Winds are generally light to moderate, except during the south west monsoon season, when these are moderate to strong. Mean wind speed is highest in June (14.6 km/hour) and lowest in November (2.3 km/hour).

Table-3: Meteorological data as recorded at Ajmer

Month	Temperature		Relative Humidity		Mean Wind Speed	Mean Cloudiness	
	Mean Daily Max. °C	Mean Daily Min. °C	08:30 %	17:30 %	Km/hr	08:30 Oktas	17:30 Oktas

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Jan.	22.2	7.3	65	36	3.4	2.1	2.1
Feb.	25.3	9.9	53	25	4.4	1.7	2.1
Mar.	30.7	15.7	40	20	6.3	1.6	2.2
Apr.	35.9	21.9	31	17	8.4	1.4	2.1
May	39.5	27.3	39	20	13.1	0.9	1.5
Jun.	38.1	27.7	56	34	14.6	2.4	2.8
Jul.	33.2	25.6	75	59	11.6	5.6	5.7
Aug.	30.9	24.3	80	66	9.5	6.0	5.9
Sep.	32.1	23.7	70	53	8.4	3.3	3.4
Oct.	32.9	17.8	52	29	4.0	0.9	1.3
Nov.	28.9	10.9	54	28	2.3	0.7	1.0
Dec.	24.4	7.7	62	33	2.5	1.6	1.9
Annual mean	31.2	18.3	56	35	7.4	2.3	2.7

**4.0 GEOLOGICAL SETUP**

Geologically, Ajmer district is occupied by the Bhilwara and Delhi Super-groups which have been further divided into several groups and formations. The rocks of Bhilwara Super-group extend from Deyi in the north-east through Kishangarh to Sarwar area underlying the Marwar plains and comprise meta-sedimentary sequences with associated magnetic complex and igneous rocks (Table-4).

Bhilwara Supergroup comprises Metapelites, Quartzites, Conglomerates, Marble, Calcsilicate rock, Calc-schist, Calc-gneisses, Mica-schist, Feldspathised mica-schist, Granites, Dolomites etc. Delhi Supergroup comprises dominantly Quartzite, Biotite-schist, Calc-schist, Calc-gneisses, Marble, Granites etc.

These ridges are occupied by Quartzite in general and soft rocks such as Biotite-schist and Gneisses occupy slopes and valleys. To the south-east of Aravali range in Ajmer lies the plain occupied by pre Aravali Gneisses.

The area of Kishangarh, Nasirabad and Kekri is covered by alluvium with practically meagre topographic dissimilarities except a few hillocks of Quartzite and mounds occupied by Granites, Epidiorites and Gneisses. Similarly on the western side of hill range around Peesangan and Govindgarh, topography is more or less plain with some low mounds occupied by granite and gneisses in general.

Table-4: Stratigraphic Set-up of Rocks in Ajmer District Super group

Super Group	Group	Formation
Delhi	Recent to Sub-recent	Alluvium and windblown sand Sub-Recent
	Intrusion (Erinpura Granite)	Sendra-Ambaji Granite Gneiss and Migamatite





	Kumbhalgarh	Calc-schist, Calc-gneiss marble, Garnet, Biotite-schist, Quartzite, Mica-schist
	Ajabgarh	Calc-schist, Calc-gneiss, Mica-schist and marble
Bhilwara	Alwar	Metaconglomerate, Quartzite, Mica-Schist
	Sawar	Dolomite, Marble, Quartzite, Garnetiferous mica-schist
	Mangalwar Complex	Migmatite, Gneisses, Mica-schist, Para-amphibolite, Impure marble
	Sandmata Complex	Para-gneiss, Migmatite, Pyroxenegraniulite, Marble, Ultramafics
Source: Geological Survey of India. Govt. of India		

#### 4.1 Local geology

The geology of the area is mainly composed of thin alluvial cover, belonging to Sub-Recent to Recent period of Quaternary Period followed by Ajmer formations of Ajabgarh Group of Delhi Super Group of lower to middle Proterozoic Era. The geological succession can be summarized as under (Table-5).

Table-5: Geological succession of the area

Age	Super Group	Group Formations	Rock Types
Sub-Recent to Recent	Fluvial & Colluvium	Alluvium	Sand, silt, clays gravel etc.
—Unconformity—			
Lower to middle Proterozoics	Delhi Super Group	Ajabgarh/ Ajmer	Mica Schist, Calc- schist, Gneiss

Lead-zinc mineralization is hosted mainly by quartz mica schist. Other rocks which also carry mineralization are quartzite, calc-silicate and vein quartz.

Of all the rocks exposed in the area, alluvium, mica schist and quartzite form aquifers in which mica schist and quartzite forms poor aquifer (Figure-2).

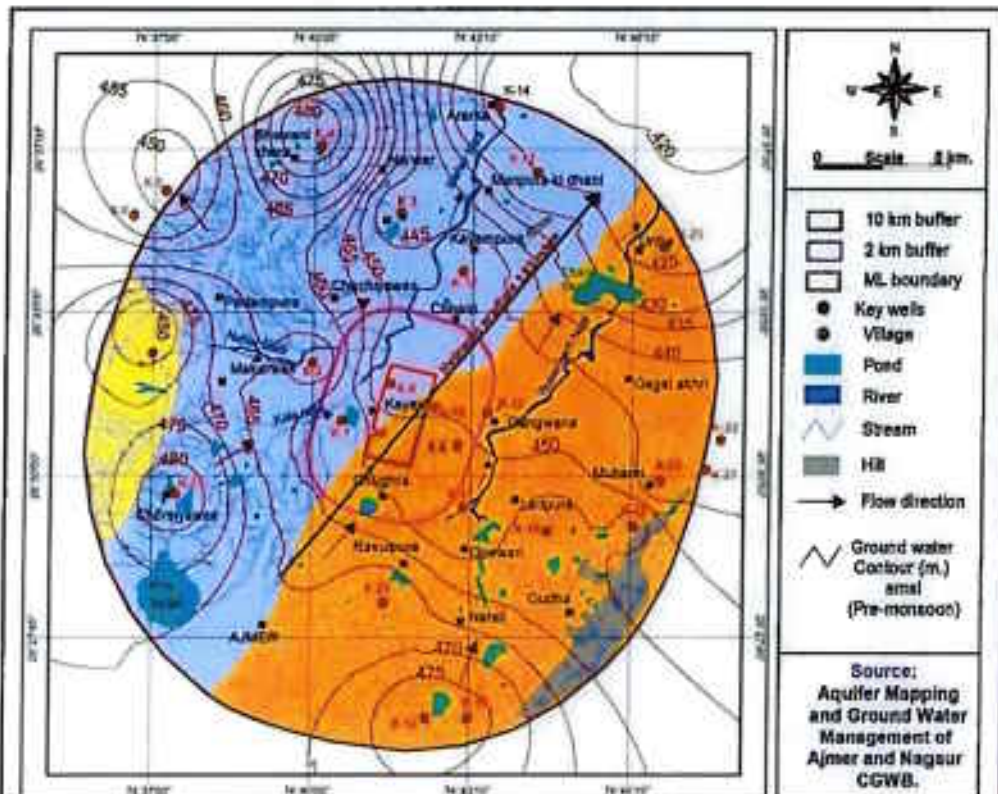
#### 5.0 HYDROGEOLOGICAL SETUP

Mica schist and quartzite are the main rocks exposed in the buffer zone (Figure-2). Quartzite is generally exposed as hills but in the eastern part of the buffer zone, these are exposed as low raised hills and form aquifer. Mica schist is exposed in valleys and in buried piedmonts. Mica schist is intruded by pegmatite and quartz veins, and also by basic intrusive rocks. The general strike of the rocks are NNE-SSW to NE-SW with steep dips either towards east or west.

The hydrogeological map of the buffer zone has been prepared (Figure-3) which shows that mica schist is the principal aquifer in the entire buffer zone.

Figure-2: Hydrogeological map of buffer zone





**Hydrogeology**

Age	Super group	Rock type	Symbol	Hydrogeological Characters
Pleistocene to Recent		Alluvium		Unconsolidated alluvium, yield moderate discharges to d/w 50-100 cu.m/day. Depth to water ranges from 28.62 h.g.l during post monsoon and 33.53 m h.g.l during pre monsoon period in the buffer zone.
Lower to middle proterozoic	Delhi Super group	Gneiss		Gneiss, yield low discharges to d/w 50-80 cu.m/day, depth to water ranges from 5 to 25 m h.g.l during post monsoon and 8 to 35 m h.g.l during pre monsoon period in the buffer zone.
	Ajmer/Group Formations	Mica Schist		Mica schist, low discharges to d/w 35-55 cu.m/day, depth to water ranges from 60 to 28 m h.g.l during post monsoon and 10 to 33m h.g.l during pre monsoon period in the buffer zone.

**5.1 Movement of ground water**

The movement of groundwater around the project area is significantly influenced by the geological features, specifically fractures, joints, and foliations in the subsurface rock formations. These structural elements create pathways that direct the flow of groundwater. In this area, the groundwater generally moves in the same direction as the natural surface slope, indicating that the topography plays a vital role in determining the flow direction.

Based on the area's topography and drainage characteristics, the general slope of the ground is towards the east, and it is expected that the groundwater flows in the same direction. The hydraulic gradient, a

measure of the slope of the water table, is 3.83 m/km, indicating a gradual but consistent groundwater flow towards the east.

## 5.2 Quality of surface water

The quality of surface water is good as the rocks are mostly crystalline metamorphics having thin alluvial cover. The rainfall being moderate and having adequate drainage, the surface water remains free from salinity. In the buffer zone the ground water indicated low salts content, less than 500 mg/l and can be used for drinking, industrial and irrigation purposes.

## 6.0 REMOTE SENSING & GIS BASED LAND USE / LAND COVER MAPPING

### 6.1 Methodology

The methodology adopted for preparation of the Land Use/Land Cover (LULC) map of the Kayad mining lease area and its buffer zone (10 km radius) has been carried out using standardized Remote Sensing and Geographic Information System (GIS) techniques in accordance with guidelines of the Ministry of Environment, Forest and Climate Change (MoEF&CC).

#### 6.1.1 Study Area Delineation

The study area comprises:

- Mining Lease Boundary of Kayad Underground Mine
- 10 km radial buffer zone from lease boundary as mandated under Environmental Clearance conditions
- Administrative boundaries, drainage network, transportation corridors, settlements, and environmentally sensitive features

The buffer zone was generated using GIS spatial analysis tools to ensure uniform radial coverage around the project area.

#### 6.1.2 Data Sources

##### Satellite Data

Recent cloud-free satellite imagery was utilized for preparation of the LULC map. Satellite data corresponding to the appropriate season were selected to ensure optimal discrimination of land use classes (Table-6).

Table-6: Imagery specification

S. No.	Particulars	Details
1.	Product ID	25103111101
2.	Sat ID	IRS-R2
3.	Sensor	L4FX
4.	Sub Scene	A
5.	Gen Agency	NRSC

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6.	Path	094
7.	Row	053
8.	Date of Pass	06-NOV-2025
9.	No of Bands	3
10.	Date of Dump	06-NOV-2025
11.	Dumping Orbit No	075504
12.	Imaging Orbit No	075504
13.	Generation Date Time	06-NOV-2025 21:11:35
14.	Prod Code	STUC00GTD
15.	Prod Type	GEOREF
16.	Input Resolution Along & Across	5.80
17.	Output Resolution Along & Across	5.00
18.	Season	NOV
19.	Image Format	GEOTIFF
20.	Map Projection	UTM
21.	Datum	WGS84

### Ancillary Data

The following supporting datasets were used:

- Survey of India Topographical Sheets
- Existing Environmental Clearance maps
- Mining lease boundary plans
- Drainage and watershed maps
- Ground control information collected during field verification

### 6.1.3 Image Pre-Processing

Satellite imagery underwent standard preprocessing prior to analysis:

- Radiometric correction
- Atmospheric correction
- Geo-referencing to WGS-84 datum
- Image mosaicking (where required)
- Sub-setting of Area of Interest (AOI-Buffer Zone)

### 6.1.4 Software Used for Image Processing and GIS Analysis

- Image processing and orthorectification of satellite data were carried out using ERDAS IMAGINE software.
- Spatial database generation, digitization, and thematic map preparation were performed in ArcView GIS software.
- The Area of Interest (AOI) covering the study area was extracted from the satellite imagery for detailed analysis.





- Appropriate image enhancement techniques were applied to improve the visual quality and interpretability of the satellite data.
- Land Use/Land Cover (LULC) features were interpreted through visual interpretation techniques followed by supervised classification using a digital image processing approach.
- Multiple training sets/signatures representing different land use and land cover classes were collected and used prior to executing the supervised classification process.

All datasets were projected into a uniform coordinate reference system to maintain spatial accuracy.

### **6.1.5 Land Use / Land Cover Classification**

Land Use/Land Cover mapping was carried out through digital image processing using GIS software.

#### **Classification Approach**

A Hybrid Classification Technique was adopted involving:

- Supervised Classification using spectral signatures
- Visual interpretation
- On-screen digitization refinement

The classification scheme broadly follows NRSC/MoEF&CC LULC classification standards.

#### **Major LULC Classes Identified**

- Built-up Area
- Agricultural Land
- Fallow Land
- Forest / Vegetation Cover
- Scrub / Wasteland
- Water Bodies
- Transportation Network

### **6.1.6 Ground Truth Verification**

Field verification (ground truthing) was conducted to validate classified land use categories.

#### **Activities included:**

- GPS-based location verification
- Photographic documentation
- Verification of ambiguous spectral classes
- Interaction with local observations where required



Ground truth points were incorporated to improve classification accuracy.

#### 6.1.7 GIS Database Development

A geospatial database was developed integrating:

- Mining lease boundary
- Buffer zone boundary
- LULC layers
- Drainage and watershed features
- Transportation network
- Settlement distribution

All thematic layers were prepared in GIS environment enabling spatial analysis and future monitoring updates.

#### 6.1.8 Change Detection Analysis

To assess temporal land use dynamics:

- Current LULC results were compared with Year 2022 LULC dataset
- Area statistics for each land use class were computed
- Spatial change detection analysis was performed

This analysis assists regulatory authorities in evaluating environmental changes within the project influence area.

#### 6.1.9 Output Generation

Final outputs generated include:

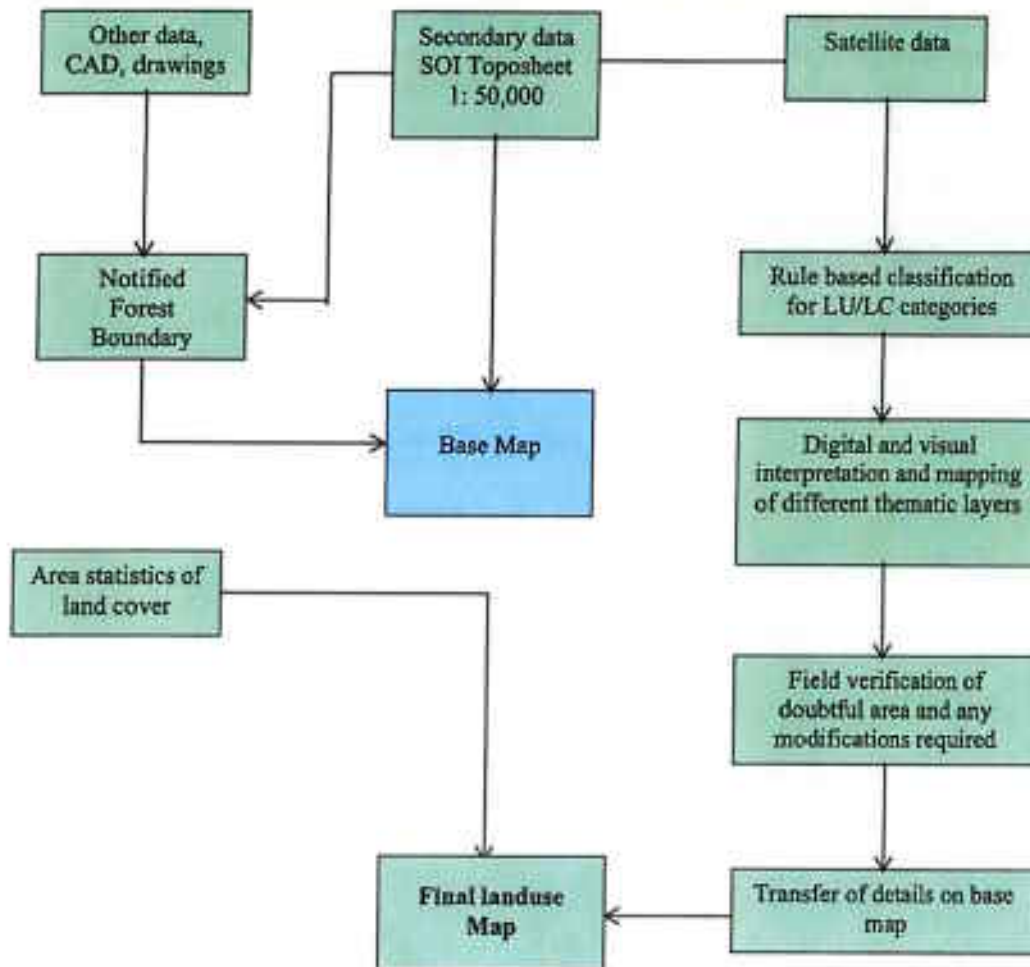
- Land Use/Land Cover Map (10 km Buffer Zone)
- Thematic GIS Layers
- Area Statistics Tables
- Comparative Change Analysis
- High-resolution cartographic layouts suitable for statutory submission

The following digitized data has been used for delineating the thematic mapping for preparing Land use /Land cover mapping of the area. Satellite imagery of the area is shown as **Figure-3**.

**Figure-3: Satellite imagery of buffer zone of lease area (LISS-IV)**



Flow diagram showing the methodology adopted for land use mapping



### 6.3 Land Use / Land Cover Mapping

Following geometric correction and proper registration of the satellite imagery, the data was digitally interpreted to identify and delineate various land use and land cover (LULC) categories using standard image interpretation and digital classification techniques.

#### 6.3.1 Thematic Mapping

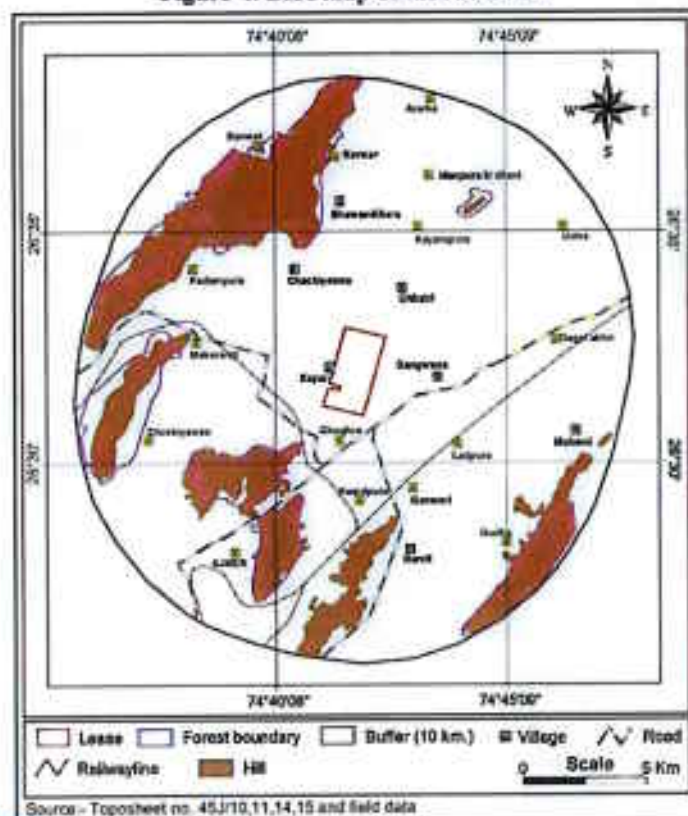
Based on the methodology described above, various thematic layers including baseline features, drainage, plantation within the lease and acquired areas, and agricultural land were prepared. The area statistics and percentage distribution of each thematic unit within the lease area were also computed. The details of the individual thematic layers are discussed in the following sections.

### 6.3.2 Baseline Information

The baseline features such as roads, villages, and built-up areas within and around the lease area were delineated using Survey of India toposheets and satellite imagery, followed by field verification and necessary updates. The baseline map of the lease area is presented as **Figure-4**.

The base map depicts the major villages, road network, mine lease boundary, railway line, hills, and other important infrastructure features within the study area. Village Kayad is located along the western boundary of the lease area. The map also illustrates various mine-related structures and other prominent landscape features present in and around the lease area.

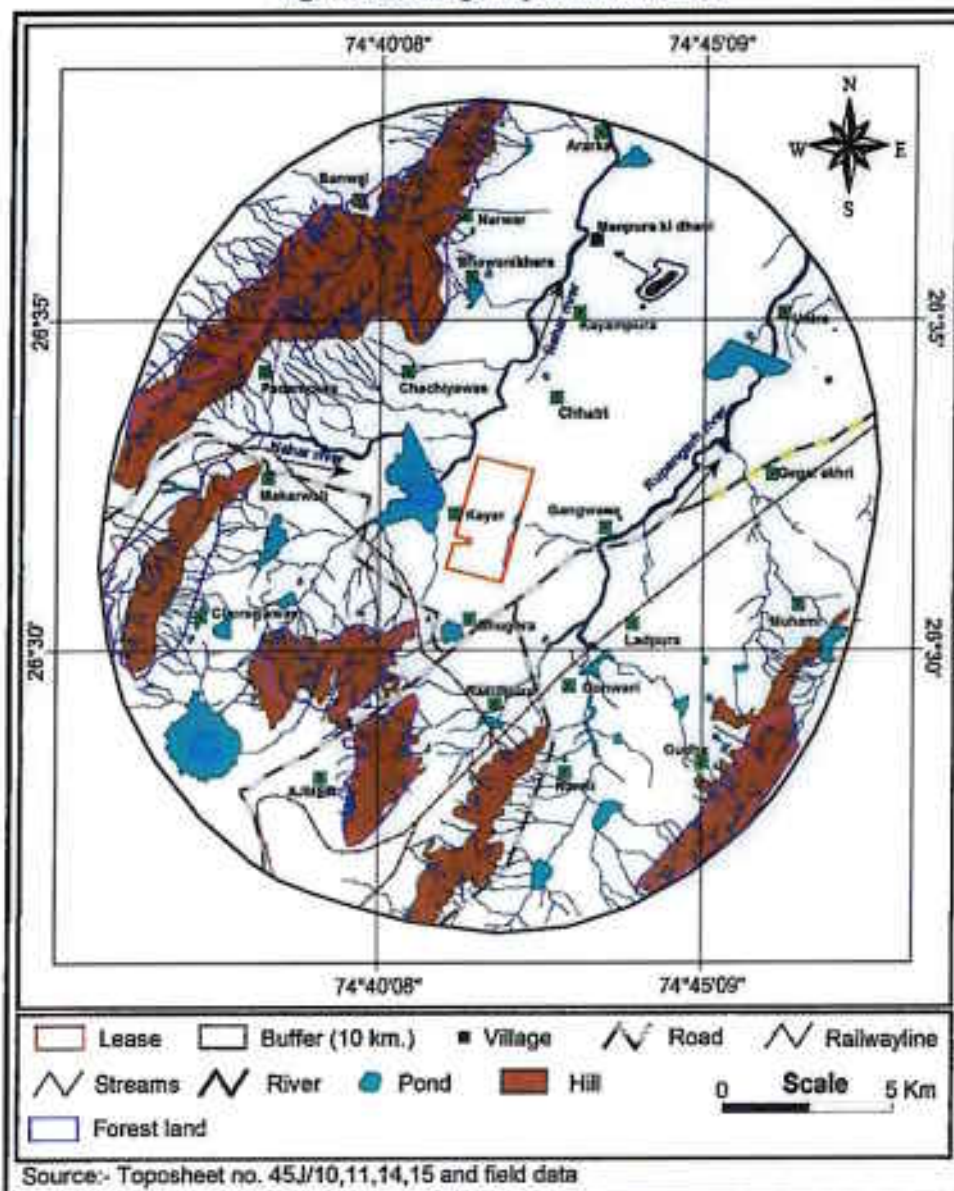
**Figure-4: Base map of the lease area**



### 6.3.3 Drainage

The drainage map of the buffer zone of mining lease area has been prepared (**Figure-5**) based on the satellite imagery and toposheets - shows river, ponds and streams getting the surface runoff through first order streams originating in its buffer zone of lease area. The mine area falls under the catchment of the Nahar River, which further contributes to the Rupangarh River basin.

Figure-5: Drainage map of the lease area

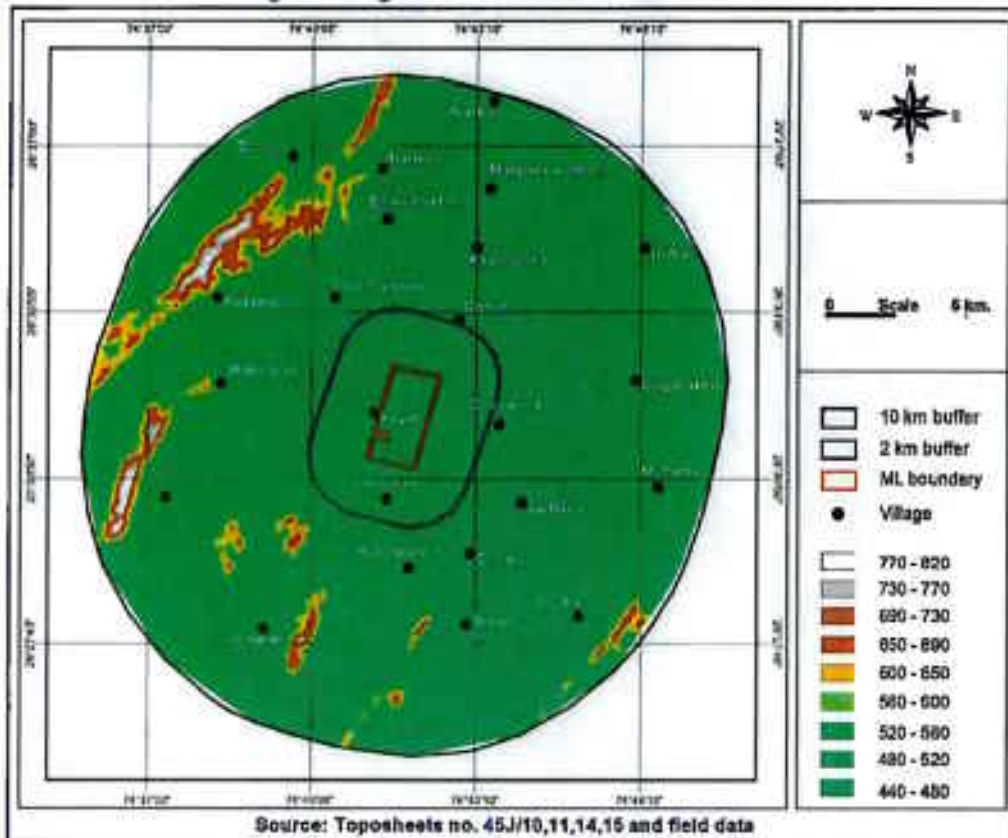


#### 6.3.4 Digital Elevation Model

A Digital Elevation Model (DEM) of the study area was prepared using SRTM data available data in GIS environment to understand the topographic characteristics of the mining lease and surrounding 10 km buffer zone (Figure-6). The DEM provides information regarding elevation variation, terrain configuration, slope behavior, drainage tendency and geomorphological controls of the area.

The DEM map of the study area indicates that the terrain is predominantly undulating with isolated elevated hillocks and intervening low-lying plains. The elevation within the 10 km buffer zone ranges approximately from 440 m to 820 m above mean sea level (MSL).

Figure-6: Digital Elevation Model of the lease area



#### Major Observations

- The highest elevation zones (770–820 m AMSL) occur mainly in the north-western and western parts of the buffer area, indicating the presence of residual hill formations and ridge systems.
- Moderate elevation ranges between 560–690 m AMSL are distributed as discontinuous ridges and elevated terrain patches around the buffer zone.
- The central and southeastern portions, including the mining lease area, are characterized by relatively gentle terrain with elevations generally ranging from 480–560 m AMSL.
- The mining lease (ML) area lies within comparatively low to moderate elevation terrain, suggesting relatively stable topographic conditions suitable for mining operations.



- The terrain gradually slopes from elevated western and northwestern hillocks toward the comparatively lower central and southeastern plains, indicating the probable regional drainage direction.

#### 6.4 Land Use / Land Cover Analysis

The Land Use/Land Cover (LULC) analysis of the study area was carried out using interpreted satellite imagery and GIS-based thematic mapping techniques. The total mapped area of the study region is approximately 414.15 km<sup>2</sup> (41,415.04 ha). The classification of land use categories indicates that agriculture is the dominant land use pattern, followed by plantation, scrub land, built-up land, and water bodies. The category-wise description is presented below.

##### 6.4.1 Built-up Land

The built-up land category includes villages/settlements, roads, railway lines, and solar infrastructure, collectively covering approximately 30.94 km<sup>2</sup>, which constitutes about 7.47% of the total study area (Photoplate-1 to 5).

- **Village/Settlement** occupies 24.644 km<sup>2</sup> (2,464.40 ha), accounting for 5.95% of the total area (Buffer zone). These areas represent human habitation and associated infrastructure distributed across the study region.
- **Road network** covers 4.525 km<sup>2</sup> (452.50 ha), representing 1.09% of the area, indicating transportation connectivity within the buffer zone.
- **Railway line** occupies 1.760 km<sup>2</sup> (176.03 ha), contributing 0.43% of the total area (Buffer zone).
- **Solar installations** installed by HZL, Kayad mine management occupy a very small portion of the area, i.e., 0.012 km<sup>2</sup> (1.20 ha), accounting for 0.003%, indicating limited but emerging renewable energy infrastructure.

The overall built-up area reflects moderate developmental activities and infrastructure expansion within the study area.

Photoplate-1: CRF Plant

Photoplate-2: Built-up Land



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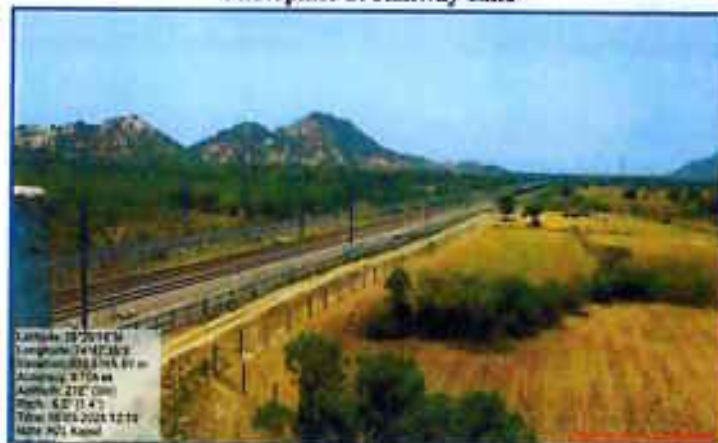
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Photoplate-3: Solar Plant within acquired area      Photoplate-4: Tar road in buffer area



Photoplate-5: Railway Line



### 6.4.2 Water Bodies

Water bodies in the study area include streams, ponds and rivers, collectively covering about 14.71 km<sup>2</sup> (1,471.49 ha), accounting for approximately 3.55% of the total area. There two major water bodies in the buffer zone i.e. Anna Sagar Dam and Phool Sagar Dam (Photoplate-6 & 7).

- Streams cover 2.422 km<sup>2</sup> (242.22 ha), representing 0.58% of the study area. These mainly comprise seasonal drainage channels and natural runoff pathways.



- Ponds occupy 8.411 km<sup>2</sup> (841.12 ha), accounting for 2.03%, indicating the presence of village ponds and water harvesting structures.
- River area extends over 3.882 km<sup>2</sup> (388.15 ha), contributing 0.94% of the total area.

The presence of these water bodies plays an important role in surface water availability, groundwater recharge, and ecological balance within the region.

Photoplate-6: Anna Sagar Dam



Photoplate-7: Phool Sagar Dam



### 6.4.3 Agriculture Land

Agricultural land is the predominant land use category in the study area, occupying about 258.04 km<sup>2</sup> (25,803.90 ha), which accounts for approximately 62.31% of the total geographical area.

- Crop land is the major component, covering 267.427 km<sup>2</sup> (26,742.720 ha), representing 64.57% of the study area. This indicates extensive agricultural practices and dependence on farming activities (Photoplate-8 to 9).
- Fallow land occupies 32.622 km<sup>2</sup> (3,262.215 ha), accounting for 7.88% of the area. These are lands temporarily left uncultivated due to seasonal related factors (Photoplate-10 to 11).

The dominance of agricultural land reflects the agrarian nature of the region and the suitability of land for cultivation activities.

Photoplate-8: Crop Land-1

Photoplate-9: Crop Land-2



Photoplate-10: Fallow Land-1



Photoplate-11: Fallow Land-2



#### 6.4.4 Land with Scrub

Land with scrub occupies 52.451 km<sup>2</sup> (5,245.125 ha), accounting for 12.66% of the total study area. These areas are characterized by sparse vegetation, bushes, and degraded land surfaces. Such lands generally represent transitional zones with limited agricultural productivity and partial natural vegetation cover (Photoplate-12 to 13).

Photoplate-12: Land with shrubs (on hillocks) Photoplate-13: Land with hill



#### 6.4.5 Land without Scrub

Land without scrub covers 15.772 km<sup>2</sup> (1,577.184 ha), constituting 3.81% of the study area. These areas mainly include barren and exposed surfaces with minimal or no vegetation cover. Such lands may be associated with rocky terrain, wasteland or degraded open areas (Photoplate-14).

Photoplate-14: Waste Land



#### 6.4.6 Plantation and Green Belt Development

The plantation area developed and maintained by Hindustan Zinc Limited, Kayad mine management covers approximately 0.22151 km<sup>2</sup> (22.151 ha) within the buffer zone area. This plantation cover constitutes nearly 45.67% of the acquired land area (48.50 ha) and about 0.05% of the total buffer zone area (Table-7).

The plantation category includes orchards, avenue plantations, organized green belts, and tree cover established for ecological restoration and environmental conservation purposes. The substantial plantation cover reflects continuous afforestation and vegetation development activities undertaken by the mine management for environmental protection and ecological sustainability.

As per the Green Cover Report (January 2023), the total developed green belt area is approximately 19.69 ha, with a cumulative plantation of nearly 52,000 trees carried out in and around the project area. In addition, during the period from FY 2023–24 to FY 2025–26, approximately 2,000 trees have been planted annually (Total 6000 trees) as part of the ongoing green belt strengthening and environmental improvement programme (Photoplate-15 & 16).

Photoplate-15: Plantation-1

Photoplate-16: Plantation-2

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Table-7: Plantation and Green Belt Status (within acquired land)

S. No.	Particulars	Value
1.	Total Lease Area (ha)	480.450
2.	Acquired Land Area	48.50 ha
3.	Plantation Area (km <sup>2</sup> )	0.22151
4.	Plantation Area (ha)	22.151
5.	Plantation as % of Acquired Land	45.67 %
6.	Plantation as % of Buffer Zone Area	0.05 %
7.	Green Belt Area (Jan 2023)	19.69 ha
8.	Cumulative Plantation up to Jan 2023	52,000 Nos.
9.	Plantation During FY 2023-24	2,000 Nos.
10.	Plantation During FY 2024-25	2,000 Nos.
11.	Plantation During FY 2025-26	2,000 Nos.
12.	Additional Plantation (FY 2023-24 to 2025-26)	6,000 Nos.
13.	Total Estimated Cumulative Plantation	58,000 Nos.

### Key Environmental Highlights

- Extensive plantation and green belt development have been undertaken by the mine management.
- Plantation activities include orchards, avenue plantations, and organized ecological green cover.
- Approximately 2,000 trees are being planted annually as part of the environmental management programme.
- Green belt development contributes to:
  - Dust suppression and air quality improvement
  - Soil conservation and erosion control
  - Noise attenuation around operational areas
  - Enhancement of biodiversity and local microclimate
- Continuous afforestation reflects long-term environmental sustainability initiatives and ecological restoration efforts within the mining area.

### 6.4.7 Overall Interpretation



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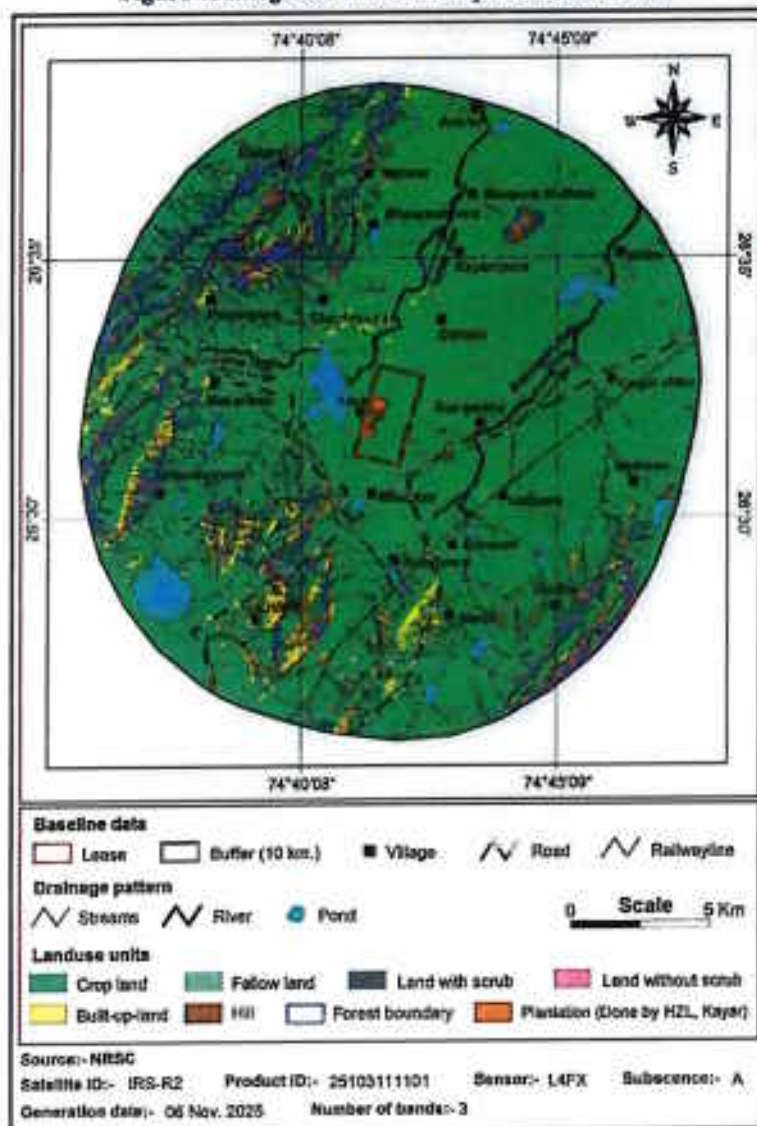
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The overall land use pattern indicates that the study area is predominantly agriculture-oriented with significant plantation and scrub cover. Built-up areas are moderate and mainly concentrated around settlements and transportation corridors. Water bodies, although limited in extent, contribute significantly to hydrological sustainability and groundwater recharge. The LULC distribution reflects a mixed landscape influenced by agricultural practices, rural habitation, natural vegetation, and developmental infrastructure (Figure-7, Table-8 to 10).

**Figure-7: Integrated land use map of the lease area**



**Table-8: Area under different land use classes in buffer zone of Kayad mine (Year-2025)**



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S. No.	Category Level I	Category Level II	Area in km <sup>2</sup>	Area in ha.	% of the total area
1.	Built up land	Village/Settlement	24.644	2464.400	5.95
2.		Road	4.525	452.500	1.09
3.		Railway line	1.76025	176.025	0.43
4.		Solar	0.01201	1.201	0.003
5.	Water Bodies	Stream	2.42221	242.221	0.58
6.		Pond	8.41118	841.118	2.03
7.		River	3.88154	388.154	0.94
8.	Agriculture Land	Crop land	267.4272	26742.720	64.57
9.		Fallow land	32.62215	3262.215	7.88
10.	Land with scrub		52.45125	5245.125	12.66
11.	Land without scrub		15.77184	1577.184	3.81
12.	Plantation		0.22151	22.151	0.05
			<b>414.15014</b>	<b>41415.014</b>	<b>100%</b>

**Table-9: Area under different land use classes in buffer zone of Kayad mine (Year-2022)**

S. No.	LLC Class	Area (Ha)	% Area
1	Water Bodies	364.322	0.88
2	Seasonal Nala	149.05	0.36
3	Open Land	1307.74	3.16
4	Open Scrub Land	6368.89	15.39
5	Plantation / Vegetation	4781.72	11.55
6	Agriculture Land	20348.10	49.14
7	Forest Land	5410.32	13.07
8	Human Settlement / Built-up Area	2028.99	4.90
9	Industrial Area	63.845	0.15
10	Mine Quarry	56.58	0.14
11	Dump Site	3.5725	0.01
12	Solar Plant	1.14	0.00
13	Road	344.76	0.83
14	Railway	175.90	0.42
	<b>Total</b>	<b>41404.930</b>	<b>100</b>

**Table-10: Changes in different landuse units (in %) during the year 2022 to 2025 in the buffer zone of Kayad mine**

S. No.	Category Level I	% of the area in the year 2022	% of the area in the year 2025	Changes in % in the buffer zone during year 2022-2025
1.	<b>Built up land</b> Village/Settlement, Road, Railway line and Solar	6.30	7.47	+1.17
2.	<b>Water Bodies</b> Streams, Pond and River	1.24	3.55	+2.31
3.	<b>Agriculture Land</b> Crop and Fallow land	49.14	72.45	+23.31
4.	<b>Plantation done by HZL, Kayad</b> (in acquired land)	40.60	45.67	+5.07

**7.0 CHANGES IN THE LAND USE DURING LAST THREE YEARS**



## LAND USE / LAND COVER STUDY REPORT

Kayad Mine, Ajmer, Rajasthan

Land Use Mapping by Digital Processing Using Remote Sensing & GIS Techniques



The land use/land cover analysis for the period 2022 to 2025 indicates noticeable changes across different thematic categories within the buffer area. The category-wise changes are described below:

### 1. Built-up Land

The built-up land category, comprising villages/settlements, roads, railway lines, and solar installations, increased from 6.30% in 2022 to 7.47% in 2025, showing an overall increase of 1.17%. This increase indicates progressive infrastructural development and expansion of human activities within the area during the study period.

### 2. Water Bodies

The area under water bodies, including streams, ponds, and rivers, increased significantly from 1.24% in 2022 to 3.55% in 2025, reflecting a substantial rise of 2.31 %. The increase due to post monsoon period attributed to improved water retention, seasonal rainfall variation, construction of water harvesting structures, or enhanced surface water availability during the assessment year.

### 3. Agriculture Land

Agricultural land, comprising crop land and fallow land, increased from 49.14% in 2022 to 72.45% in 2025, registering an increase of 23.31%. This change indicates expansion of cultivation activities due to post monsoon period so conversion of land categories into agricultural use, possibly due to improved irrigation facilities and favorable agricultural practices.

### 4. Plantation

Plantation area increased moderately from 40.60 in 2022 to 45.67 % in 2025, showing a rise of 5.07 %. The increase suggests gradual development of plantation activities and green cover enhancement within the acquired area by the Kayad mine management.

Overall, the analysis indicates increasing trends in built-up area, agriculture land, plantation and water bodies between 2022 and 2025 reflecting ongoing developmental activities along with improvement in land and water resource utilization.

For Hydro-Geosurvey Consultants Pvt. Ltd.,

(Dr. V.B. Khilnani)  
Managing Director





**Quality Council of India**  
National Accreditation Board for Education and Training  
ITPI Building, 6th Floor, 4 - A, Ring Road, IP Estate, New Delhi - 110002



# CERTIFICATE OF ACCREDITATION

Under the QCI-NABET Scheme  
for  
Ground Water Consultant Organisation



**Hydro-Geosurvey Consultants Private Limited**

Address: C-103 Shastri Nagar RAJASTHAN JODHPUR-341003

S.No.	SCOPE COVERAGE		
	Industrial Use	Mining Projects	Infrastructure Projects
1	Hydro-geological report: Comprehensive report on groundwater condition/situation		
2	Impact Assessment Reports with modelling studies		

Note: Names of approved Project Coordinators and Technical Area Experts are mentioned in IA AC Minutes dated Aug 25, 2021 on QCI-NABET website.

The Accreditation shall remain in force subject to continued compliance to the terms and conditions mentioned in NABET's letter of accreditation bearing no. QCI/NABET/ENV/GWCO/ACQ/21/19 dated Sep 23, 2021. The accreditation needs to be renewed before the expiry date by Hydro-Geosurvey Consultants Private Limited following due process of assessment.

Sr. Director, NABET  
Issue Date on: Sep 23, 2021



Certificate No.  
NABET/GWCO1A/GW003

Valid Upto  
Nov 17, 2025

**Annexure-II**

Ref. No.: QCI/NABET/GWCO/ACO/24/008

Date: September 10, 2024

Name of organization: Hydro-Geosurvey Consultants Private Limited

**Accreditation under NABET Scheme for Ground Water Consultant Organization (GWCO)**

**List of Experts**

**Project Coordinators (PCs)**

Assessed as per SA norms –

S. No	Name	Technical Areas (TA)		Remarks
		Applied	Recommended /Approved	
<b>In-house</b>				
1	Vasudeo Bulchand Khilnani	HGL/GL	Yes	-

**Technical Area Experts (TAEs)**

Assessed as per SA norms –

S. No	Name	Technical Areas (TA)		Remarks
		Applied	Recommended /Approved	
<b>In-house</b>				
1	Rajneesh Khilnani	HGL/GL	Yes	-
		GWM	Yes	-
2	Meeta Khilnani	GP	Yes	-
<b>Empanelled</b>				
1	Mohammed Afzal	WQ	Yes	-

Assessed as per IA norms –

S. No	Name	Technical Areas (TA)		Remarks
		Applied	Recommended /Approved	
<b>In-house</b>				
1	Vijay Kumar Singh	RSG	Yes	-

  
A K Jha  
Senior Director  
QCI-NABET



भारत सरकार  
Government of India  
जन शक्ति मंत्रालय  
Ministry of Jal Shakti  
जन संचालन, नदी विकास एवं गंगा संरक्षण विभाग  
Department of Water Resources, River Development & Ganga Rejuvenation  
राजीव गांधी राष्ट्रीय भूजल प्रशिक्षण एवं अनुसंधान संस्थान  
Rajiv Gandhi National Ground Water Training & Research Institute (RGNGWTRI)

सेक्टर-23, नवा रायपुर, अटल नगर, छत्तीसगढ़-492016  
Sector-23, Nava Raipur, Atal Nagar, Chhattisgarh-492016  
ईमेल / Email :rgi-cgwb@nic.in

File No. : RGI/T5/CGWB/NBforAccreditationofGWP/2025-26

Date: 30.03.2026

**Notice on Extension of Validity of Accreditation of Ground Water Professionals**

In continuation of the public notice on the above subject dated 14.07.2025, the validity of accreditation of all groundwater professionals and institutions, except those currently debarred, delisted, blacklisted, or put on hold, is hereby extended up to 30.09.2026, or until further orders, whichever is earlier.

In the case of groundwater professionals and institutions whose accreditation is valid beyond 30.09.2026, their accreditation shall continue to remain valid up to the original date of validity or until further orders, whichever is earlier, subject to the terms and conditions of accreditation.

This issues with the approval of the Competent Authority.

Regional Director  
RGNGWTRI

Ref: HZL/Kayad/ENV/2025-26/ 72

Date: 20/09/2025

Member Secretary  
Raj. Pollution Control Board  
4, Institutional Area  
Jhalana Doongari  
JAIPUR

Sub: Environmental Statement for Kayad Mine for year 2024-25.

Ref: Env clearance vide No. : J-110115 14712012-IA.II (M) dated 5th Feb, 2018.

Ref: CTO Granted vide File No. F(Mines)/Ajmer(Ajmer)/303(1)/2017-2018/5559-5563 dated 06.01.2023.

Sir/madam,

Please find enclosed herewith the environmental statement for financial year ending on 31<sup>ST</sup> March 2025.

Thanking you

Yours truly



Nirmalendu Kumar

Director SBU(Kayad Mine)

: for kind information please

Cc to: Regional officer  
Raj. State Pollution control board  
SPL-II, RIICO Industrial Area, Phase-v,  
Kishangarh, Dist. Ajmer

The Deputy Director(s)/ Scientist-C  
Ministry of Environment, Forest and Climate Changes,  
Integrated regional Officer, A-209 & 218, Aranya Bhawan,  
Jhalana Institutional Area Jaipur-302004

O/C Ew.









**CENTRAL GROUND WATER AUTHORITY**  
 Department of Water Resources, River Development and Ganga Rejuvenation  
 Ministry of Jal Shakti, Govt. of India

**Receipt**

(As per the provision of water Regulation S.O. 1224/83 regarding the New Conditions dated 24.06.2002 of CGWA, MoES, Govt. of India)

Application No.:	21-4/176/RJ/MIN/2007	Date of Issuance:	25/03/2025
Name of Firm:	M/S HINDUSTAN ZINC LIMITED		
App Type Category:	Base Metal Ores		
Application Type:	Mining		
PAN/GSTIN No. of Firm/Individual:			

S	Description	Amount (Rs.)
1.	Application Processing Fee	5000.00
2.	Ground Water Abstraction charges	0
3.	Ground Water Restriction charges	1707328.00
4.	Environmental Compensation Charges (ECRGW) (Date From to / Days)	
5.	Penalty for non-Compliance of NOC conditions <i>Condition to be mentioned</i>	
6.	Adjustment Charges	
7.	Rebate	
8.	Charges for correction/modification in the existing issued No Objection Certificate	
S.No.	Description	Rate
(i)	Change in User ID	Rs. 1000
(ii)	Change in firm Name	Rs. 5000
(iii)	Extension of No Objection Certificate	Rs. 5000
(iv)	Issuance of duplicate No Objection Certificate	Rs. 5000
(v)	Issuance of corrigendum to No Objection Certificate	Rs. 5000
(vi)	Any other items/correction etc.	Rs. 500
<b>Rs. Rupees Seventeen Lakh Twelve Thousand Three Hundred Twenty Eight Only</b>		<b>1712328.00</b>

This is an system generated receipt, hence, does not require to be signed.





## Sustainable Livelihood

### → Zinc Kaushal Kendra

Zinc Kaushal Kendra, Kayad has been initiated with the purpose of providing employment to the youth in the trades of assistant electrician, microfinance and customer relationship manager as well as inculcating industry relevant skills among them. The Zinc Kendra, Kayad has trained more 500+ youth till now with an average placement package of 12k+.

### → Samadhan

The main objective of this project is to provide sustainable livelihood to the farmers in core as well as in periphery villages through integrated farming system and livestock development.





More than 1200 farmers are the beneficiary of this project

## Education

### → Shiksha Sambhal Program:

The objective of the programme is to improve the learning environment and outcomes (with special focus on science, maths and English) among children studying in classes 9th to 12th in the government schools in HZL's operational area.

### → Nandghars

This project aims at strengthening the efficacy of Government ICDS scheme to improve the health, well-being and quality of pre-school education of children below 6 years of age.





→ **Unchi Udaan**

Children of classes 8<sup>th</sup> are given an opportunity for a 4 year IIT coaching classes at Vidya Bhawan Udaipur.

## Women empowerment

→ **Sakhi women**

The main objective of this project is to promote women run financial institutions and Individual/ collective microenterprises in operational areas of HZL for uplifting the women population.

→ **Pickle unit**





With the purpose of providing income opportunity to women, a pickle unit which is run and managed entirely by women is functional in Kayad. The unit employs more than 14 women from the village and produces 12 different varieties of pickle.

