

SPEED POST

Ref.: HZL/Kayad/ENV/MOEF/2025-26/97

November 26, 2025

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 April- 2025 to September- 2025.

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 **April 2025 to September 2025**.

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

Thanking you,
Yours faithfully,


(Nirmalendu Kumar)
SBU Director
Hindustan Zinc Ltd.
Director- SBU Kayad Mine 305023
Dist.-Ajmer (Raj.)

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-IA (M) dated 5th 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)/2017-2018/5559-5563 dated: 06.01.2023 valid till 31.01.2028. (Annexure-XI). 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 specialized institute M/s National Environmental Engineering Research Institute (NEERI), Nagpur and report submitted.

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.(Annexure-XX). No secondary blasting being carried out at site
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.	Water tankers fitted with sprinklers are deployed regularly for effective wetting of the mine haul roads (Annexure-XIV). Permanent water sprinklers have also been installed along major stretches to ensure continuous dust control. The belt conveyor at the CRF has been properly covered to prevent generation of airborne dust. An effective water-sprinkling system has been implemented across haul and transport roads to suppress fugitive dust and maintain safe, dust-free operating conditions.
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-1 species viz. peafowl (pavo cristatus), Osprey (Pandion haliaetus), Tawny eagle (Aquila rapax), Crested honey buzzard (pernisptilorhynchus), Shikra (Accipiter badius), Leopard (Pantherapardus), indian pangolin (Manis crassicaudata) 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-1 namely Peafowl (Pavo cristatus) 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 levels in the blood samples of employees are monitored during their Periodic Medical Examination (PME). Lead monitoring is also carried out for nearby villagers to ensure community health protection. Water samples from nearby water bodies are regularly analyzed, and the monitoring reports are 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

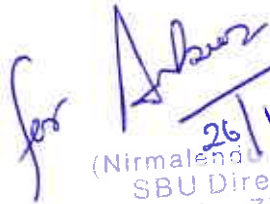
18.	Implementation of the outcome of study with regard to of blast design parameter for the safety and stability of surface structures and subsequent monitoring of vibration on the surface structures for their long term stability,, which was carried out by Central institute of Mining and Fuel Research should be ensured.	The implementation of CIMFR study report is being ensured. - Regular vibration studies conducted through CIMFR. - Peak Particle Velocity within ranging between 1.0 to 15.00 mm/sec . - Due care is taken in blast design, explosives use, selection of detonators and delay to ensure safe vibration limit
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 of Radon and its daughter products on any worker should be included in the Occupational Health Monitoring Programmed.	The report of Radioactive element done, and report already submitted to MOEF & CC and Regional office. No Radioactive element trace 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 vide Reference no. CGWA/NOC/MIN/REN/4/2025/11265 dated: 28.03.2025. and valid till 09/10/2026(Annexure-XIX). Surface water monitoring report attached as annexure -VI
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 J.M Environet pvt.Ltd. and report submitted vide letter no. HZL/Kayad/Env/MoEF/22-23/94 dated: 23/11/2022. (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	An effective safeguard measure has been taken and regular water sprinkling on haul road, loading & unloading are being carried out.

	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.	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 Ground Water Authority and Regional Director, Central Ground Water Board.	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-IV)
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-V(A&B))
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. Incase 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	Mine water monitored regularly and report attached.(Annexure-III) Regular pH monitoring report enclosed. (Annexure-III (A))

	and report shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional office on six monthly bases.	
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 backfilling 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 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.	The top soil stored at earmark location if 9000cum soil in 645 sq.m and developed a beautiful garden on it. All the waste utilized in the mine void refilling. No such OB dump.
21.	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.	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 are haul roads, green belt development, recharge etc. The drain and settling pond are being regularly de-silted and maintained properly.
22.	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.	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)
23.	Project Proponent shall follow the mitigation measures provided in Office Memorandum No. 2-11013/5712014-IA.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.	Being Assured
24.	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	Ensured

	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.	
25.	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.	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.
26.	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.	The Baseline needs assessment survey done. CSR related activities Sustainable livelihood, Education related programs & women related activities (Annexure-XXI)
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.	Oil and grease trap 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(GL & CC). The expenditure from Apr-25 to Sept- 25 has been incurred 54.30 Lacs (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 www.environmentclearance.nic.in 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 (Protection) Act, 1986 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	Assured to comply. Environment statement submitted to MoEF & CC vide letter no. HZL/Kayad/ENV2025-26/72 Dated: 20/09/2025. (Annexure-XVIII)
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.

for 
 26/11/25
 (Nirmalendu Kumar)
 SBU Director
 Hindustan Zinc Ltd.
 Kayad Mine-305023
 Dist.-Ajmer (Raj.)



HINDUSTAN ZINC
Zinc & Silver of India

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:

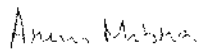
- ❖ Comply with applicable national, regional, and local environmental regulations and statutory obligations. In the absence (or lack) of appropriate legislation, industry best practices and applicable international standards will be used.
- ❖ Develop, implement, and improve environmental management 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, Tailing Management Policy.

Date: 05th June, 2025


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-14000, 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 cooperate 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 compliances is periodically reviewed and audited by cooperate 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-compliances/show cause/ notices/complaints received from regulatory authority or any stakeholder is addresses jointly by the unit an 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.

Annexure Table

S.No	Description	Annexure No
1	Ambient Air Quality Monitoring	Annexure-I
2	Noise Level Monitoring	Annexure-II
3	Mine Water Monitoring	Annexure-III & III (A)
4	Peizo & well water level monitoring	Annexure-IV
5	Peizo and Well Water Quality Report	Annexure-V(A&B)
6	Surface water Monitoring	Annexure-VI
7	STP Water Report	Annexure-VII
8	Enviroment Expenditure Report	Annexure-VIII
9	Copy of Valid CTO	Annexure-IX
10	NEERI study Report	Annexure-X
11	LED Display Photos	Annexure-XI
12	STP Plant Photo	Annexure-XII
13	Oil and Grese Trap Photograph	Annexure-XIII
14	Water Sprinkling in Haul Roads	Annexure-XIV
15	Rainwater Harvesting Photo	Annexure-XV
16	Plantation Photos	Annexure-XVI
17	Land use Report Photo	Annexure-XVII
18	Environment Statement (Form-V)	Annexure-XVIII
19	CGWA NOC	Annexure-XIX
20	CIMFER Report	Annexure-XX
21	CSR activity	Annexure-XXI

HINDUSTAN ZINC LIMITED																					
KAYAD MINES																					
Ambient Air Monitoring (April25-Sept 25)																					
Location-->		Near Sub-Station							New CRF							Near ANFO				Annexure-1	
Month-year	parameter	SPM	PM 10	PM 2.5	SO2	NOx	CO	SPM	PM 10	PM 2.5	SO2	NOx	CO	SPM	PM 10	PM 2.5	SO2	NOx	CO		
Apr-25	Limit	500 µg/m³	100 µg/m³	60 µg/m³	80 µg/m³	80 µg/m³	4000 µg/m³	500 µg/m³	100 µg/m³	80 µg/m³	80 µg/m³	80 µg/m³	4000 µg/m³	500 µg/m³	100 µg/m³	80 µg/m³	80 µg/m³	80 µg/m³	4000 µg/m³		
	1st Fortnight	141.57	80.03	32.58	6.67	15.45	430.00	133.01	88.28	32.15	6.64	14.49	410.00	147.4	71.87	31.32	6.91	14.13	380.00		
May-25	1st Fortnight	147.77	76.88	36.8	6.84	15.95	380.00	142.67	76.88	33.57	6.87	15.23	420.00	136.58	68.65	32.43	6.97	14.86	370.00		
	2nd Fortnight	148.89	77.16	36.48	7.5	14.72	350.00	155.57	78.16	34.88	6.85	14.31	370.00	161.47	86.47	32.26	6.78	14.4	380.00		
Jun-25	1st Fortnight	144.76	81.02	32.79	6.17	14.74	320.00	135.35	74.45	33.71	6.40	15.11	310.00	147.26	75.46	38.33	6.41	14.89	360.00		
	2nd Fortnight	152.74	84.24	33.68	6.77	14.94	370.00	144.18	83.9	33.1	6.66	14.67	370.00	138.34	86.54	37.63	6.61	14.52	380.00		
Jul-25	1st Fortnight	106.06	56.12	26.05	6.65	13.3	260.00	120.34	61.68	26.72	6.90	14.78	280.00	113.89	65.52	24.88	6.77	14.73	270.00		
	2nd Fortnight	106.06	53.47	26.38	6.77	14.97	270.00	112.74	59.28	27.64	6.48	14.13	290.00	101.62	54.25	26.68	6.52	14.48	280.00		
Aug-25	1st Fortnight	81.56	46.63	26.76	6.07	14.37	280.00	79.07	52.33	32.16	6.41	14.71	280.00	81.62	53.32	27.61	6.69	13.25	270.00		
	2nd Fortnight	114.83	66.56	29.06	6.57	14.55	270.00	104.84	60.48	29.4	6.41	14.34	290.00	135.09	78.83	29.87	6.23	14.56	310.00		
Sep-25	1st Fortnight	89.8	56.36	26.92	6.0	13.61	220.00	99.38	56.13	27.45	6.21	14.42	240.00	79.87	51.41	24.21	6.57	14.75	230.00		
	2nd Fortnight	132.96	69.93	30.83	6.08	14.55	340.00	116.7	64.42	34.77	6.03	14.67	370.00	136.67	59.79	29.35	6.19	14.24	360.00		
	1st Fortnight	151.09	82.51	35.65	6.58	14.35	340.00	144.19	75.76	34.28	6.52	14.35	360.00	130.5	78.74	33.76	6.37	14.43	360.00		

Location----		Kayad							Lohatal							Gagwana						
Month-year	parameter	SPM	PM 10	PM 2.5	SO2	NOx	CO	SPM	PM 10	PM 2.5	SO2	NOx	CO	SPM	PM 10	PM 2.5	SO2	NOx	CO			
Apr-25	Limit	500µg/m3	100 µg/m3	60µg/m3	80µg/m3	80µg/m3	4000µg/m3	500 µg/m3	100 µg/m3	60µg/m3	80µg/m3	80µg/m3	4000µg/m3	500 µg/m3	100 µg/m3	60µg/m3	80µg/m3	80µg/m3	4000µg/m3			
	1st Fomnight	335.14	71.45	26.07	<6.0	13.17	310.00	124.83	86.63	29.39	<6.0	13.46	340.00	129.2	62.08	26.15	<6.0	13.71	330.00			
	2nd Fomnight	145.91	78.64	46.46	<6.0	14.21	330.00	117.72	69.59	32.48	<6.0	13.97	370.00	137.61	79.65	25.61	<6.0	13.66	310.00			
May-25	1st Fomnight	135.83	70.13	28.41	<6.0	12.97	340.00	132.96	74.67	31.75	<6.0	13.96	330.00	135.83	70.13	29.44	<6.0	12.97	340.00			
	2nd Fomnight	117.47	67.13	26.67	<6.0	13.56	260.00	129.35	68.18	25.13	<6.0	13.58	210.00	129.77	74.05	27.13	<6.0	13.21	240.00			
Jun-25	1st Fomnight	126.32	55.45	26.36	<6.0	13.77	230.00	131.89	65.57	26.57	<6.0	13.44	240.00	116.57	68.26	27.46	<6.0	13.88	270.00			
	2nd Fomnight	91.64	45.64	22.89	<6.0	13.09	210.00	82.37	47.83	26.85	<6.0	13.76	270.00	86.35	50.48	25.05	<6.0	13.77	230.00			
Jul-25	1st Fomnight	82.46	48.33	21.06	<6.0	13.95	270.00	93.14	51.06	24.98	<6.0	13.27	230.00	81.18	46.87	23.21	<6.0	13.11	240.00			
	2nd Fomnight	78.67	47.95	23.01	<6.0	13.92	210.00	68.63	33.71	20.3	<6.0	13.46	250.00	69.01	37.69	25.95	<6.0	13.95	230.00			
Aug-25	1st Fomnight	38.49	55.54	23.19	<6.0	13.46	230.00	93.02	47.11	20.36	<6.0	13.16	210.00	501.07	56.47	21.19	<6.0	13.56	220.00			
	2nd Fomnight	75.72	45.57	17.65	<6.0	13.71	170.00	87.94	46.37	10.47	<6.0	12.68	190.00	92.81	58.21	22.04	<6.0	13.1	180.00			
	3rd Fomnight	76.01	47.44	25.6	<6.0	13.18	290.00	82.65	62.5	27.36	<6.0	13.51	270.00	84.82	48.97	23.06	<6.0	13.96	260.00			
Sep-25	1st Fomnight	93.7	63.62	24.24	<6.0	13.85	310.00	112.11	56.88	23.95	<6.0	13.17	280.00	98.85	55.29	25.52	<6.0	13.56	290.00			
	2nd Fomnight																					



Clean Air Test House Pvt. Ltd.

Division of Environmental Sciences & Technology Pvt. Ltd.

Approved by Ministry of Environment, Forest & Climate Change, Government of India as Environmental Laboratory

ISO 15189

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TEST REPORT

Report No. ULR No.	25400000730	Date	25-04-2025
Issued To	M/S. Industries Zed Limited, Kaveri Nagar, 170000, Rajpuri, District, Delhi - 110022	Type of Unit	Others
Type of Sample / Sample	Air (Ambient Air Quality Monitoring)	Date of Sample Collection / Monitoring	12-04-2025 to 12-04-2025
Point of Collection	Test Station	Date of Receipt	12-04-2025
Date of Test Analysis	12-04-2025 to 25-04-2025	Sampling Plan	IS 5182 2009 (Part 14) RA 2014
Quantity of Sample		Sample Collected By	Prakash Singh
Units / Representative	Mr. Prakash Singh	Condition of Sample	14 for testing

RESULTS

S.No.	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL (<2.0)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	430	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.12	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	15.45	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL (<2.0)	IS 5182 (Part-9) : 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	141.57	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	32.58	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 (PM10) [microgram/m3]	95.15	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]	2.6	TTH/AAQM/09	20.00

Notes:

1. The results are based on the sample collected during the specified period of time.
2. The results are based on the sample collected during the specified period of time.
3. The results are based on the sample collected during the specified period of time.
4. The results are based on the sample collected during the specified period of time.

Senior Analyst

Authorized Signatory

(Report No. 25400000730)



TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology, Jaipur)

Approved by Ministry of Environment and Forests, Government of India, New Delhi, on 16/04/2015

RSPCB

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TEST REPORT

Report No./ULR No. :	400000730	Date	25-04-2025
Issued To :	M/S Hindustan Zinc Limited (Kayad Mines - Village Kayad, District Amer (Rajasthan))	Type of Unit	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring - Chemical	Date of Sample Collection/Monitoring	09-04-2025 to 26-04-2025
Point of Collection	Near Sub Station	Date of Receipt	12-04-2025
Date of Test/Analysis :	12-04-2025 to 25-04-2025	Sampling Plan	IS 5182:2000 (Part 14) RA 2012
Quantity of Sample :	-	Sample Collected By :	Pranav yogi
Unit's representative :	Mr. Prakash Sharma	Condition of Sample :	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 14) RA 2012	5.00
13	Benzo-alfa- Pyrene [ng/m3]	BDL(<1.0)	CPCB Guidelines	1.00

Notes :-

- The results stated refer only to the tested samples. A certificate of endorsement of report is not to be issued or prepared.
- This report is not to be reproduced wholly or in part without the permission of the issuing authority. Any unauthorized use of the report is strictly prohibited.
- The samples will be destroyed after 15 days from the date of receipt of the report, unless otherwise specified.

Puran Mar Yogi
Senior Analyst

Authorized Signatory
(Report No. 400000730)



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



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

ISO 15189

13-06-2015

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TEST REPORT

Report No./UI R No	25400000731	Date	25-04-2025
Issued To	M/S Hindustan Zinc Limited, Kayad Mines, Village Kayad, District Aimer, Rajasthan	Type of Unit	Mines
Type of sample Discipline	Ambient Air Quality Monitoring - Ground	Date of Sample Collection-Monitoring	09-04-2025 12:29 to 10-04-2025 12:29
Point of Collection	Near CRF	Date of Receipt	12-04-2025
Date of Test/Analysis	12-04-2025 to 25-04-2025	Sampling Plan	IS 5182 2006(Part 14)RA 2014
Quantity of Sample		Sample Collected By	Pratibha yogi
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)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	410	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.12	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.49	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) : 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	133.01	IS 5182 (Part 4) : 1999 RA 2019	500
7	Particulate Matter (PM2.5) [microgram/m3]	32.15	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.64	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	68.28	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)	3.2	TTH/AAQM/09	20.00

Notes:

- # The sample is to be collected in the specified container as per the standard method. The sample is to be preserved as per the standard method.
- # The sample is to be collected in the specified container as per the standard method. The sample is to be preserved as per the standard method.
- # The sample is to be collected in the specified container as per the standard method. The sample is to be preserved as per the standard method.

Purushottam Yogi
Senior Analyst

Purushottam Yogi
Authorized Signatory

(Report No: 25400000731)



TEAM INSTITUTE

Unit of Team Institute of Research & Technology Pvt. Ltd.

Approved by Ministry of Environment, Forest and Climate Change, Government of India, Central Pollution Control Board

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TEST REPORT

Report No./ULR No.:	400000731	Date:	25-04-2025
Issued To:	M/S Hindustan Zinc Limited (Kavay Mines) Village Kavay, District Ajmer (Rajasthan)	Type of Unit:	Mines
Type of sample / Discipline:	Ambient Air Quality Monitoring - Chemical	Date of Sample Collection Monitoring:	24-04-2025 to 29-04-2025
Point of Collection:	Near GRF	Date of Receipt:	12-04-2025
Date of Test/Analysis:	12-04-2025 to 25-04-2025	Sampling Plan:	IS 5182 2003 Part 14/RA 2017
Quantity of Sample:		Sample Collected By:	Pranav Yogi
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 ³]	BDL(<2.0)	IS 5182 (Part 11), 2012 RA 2017	5.00
13	Benzo-alfa- Pyrene [ng/m ³]	BDL(<1.0)	CPCB Guidelines	1.00

Notes:

- # The results are reported as observed values and are not corrected for any interferences.
- # This report is to be used only for the purpose of monitoring the quality of the environment and is not to be used for any other purpose.
- # The sample will be destroyed after the report is generated and no further use of the sample is allowed.

Puran Mai Yogi
Senior Analyst

Signature of Analyst
Report No. 400000731



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ISPCR

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TEST REPORT

Report No./ULR No.	25410000732	Date	25-04-2025
Issued to	M. S. Hindustan Zinc Limited (Rajapal Mines) Durgam Rajapal, District Amritsar, Rajasthan	Type of Unit	Mines
Type of sample Discipline	Ambient Air Quality Monitoring - Chemical	Date of Sample Collection/Monitoring	10-04-2025 12:30 to 11-04-2025 12:31
Point of Collection	Neer ARI C Station	Date of Receipt	12-04-2025
Date of Test/Analysis	10-04-2025 to 25-04-2025	Sampling Plan	IS 5182 2300(Part 14)RA 2014
Quantity of Sample	-	Sample Collected By	Prabir yogi
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)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	390	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]	14.13	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) : 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	147.4	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	31.32	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.91	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	71.87	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	TTH/AAQM/09	20.00

Note:

1. The observed values are in microgram/m3, except for Lead, which is in microgram/m3 and for Nickel, which is in ng/m3.
2. This report is for information only and cannot be used as evidence in the court of law and should not be used in any other legal proceedings without the permission of the writer.
3. The sample is valid for testing 15 days from the date of collection of sample and should be used as per the protocol.

Prabir Yogi
Senior Analyst

Rajesh K. Lechiwar
Authorized Signatory

(Report No. 25400000732)



TEAM TEST HOUSE

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ISO 9001:2015

ISO 14001:2015

ISO 45001:2018 (OHS)

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TEST REPORT

Report No./ULR No.	400000732	Date :	25-04-2025
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	10-04-2025 12:30 to 11-04-2025 12:30
Point of Collection :	Near ANFO Station	Date of Receipt :	12-04-2025
Date of Test/Analysis :	12-04-2025 to 25-04-2025	Sampling Plan :	IS 5182:2000 (Part 14) RA 2017
Quantity of Sample :	-	Sample Collected By :	Prakash yad
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 ³]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
13	Benzo-alfa- Pyrene [ng/m ³]	BDL(<1.0)	CPCB Guidelines	1.00

Notes :

- The results listed refer only to the tested samples. No guarantee is made for the quality of products or materials used in the process.
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- The sample is to be kept for 15 days after the test for re-testing if required.

Purnan Mohi Yogi
Senior Analyst

Purnan Mohi Yogi
Authorized Signatory
Report No. : 400000732



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TEST REPORT

Report No./UIR No.	25400000733	Date	25-04-2025
Issued To	M/S Hindustan Zinc Limited (Kavay Mines) Village Kavay, District Amer (Rajasthan)	Type of Unit	Mines
Type of sample / Discipline	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring	08-04-2025 12:32 to 09-04-2025 12:32
Point of Collection	Lonaqal Village [26°31'58.7"N, 74°39'30.8"E]	Date of Receipt	12-04-2025
Date of Test Analysis	12-04-2025 to 25-04-2025	Sampling Plan	IS 5182:2000(Part 14)RA 2014
Quantity of Sample	-	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	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(< 20)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	340	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]	13.46	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	124.63	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	28.38	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]	66.93	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	TTH/AAQM/09	20.00

Notes

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- 2. This report is not to be used for any purpose other than the one stated in the report. It is not to be used in any advertisement or for any other purpose without the written consent of the laboratory.
- 3. The sample will be destroyed after 15 days from the date of receipt. Test report will be valid for 15 days.

Puran M. V.
Senior Analyst

Rajesh K. S.
Authorized Signatory

(Report No. 25400000733)



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TEST REPORT

Report No./ULR No.	400000733	Date	25-04-2025
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	02-04-2025 12:32 to 04-04-2025 12:32 (3 days)
Point of Collection	Lohagal Village (26°31'06.7"N, 74°39'30.6"E)	Date of Receipt	12-04-2025
Date of Test/Analysis	12-04-2025 to 25-04-2025	Sampling Plan	IS 5182:2000 (Part 14) RA 2014
Quantity of Sample	-	Sample Collected By	Prakash yogi
Unit's representative	Mr. Prakash Sharma	Condition of Sample	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 14), 2012 RA 2017	5.00
13	Benzo-alfa- Pyrene [ng/m3]	BDL(<1.0)	CPCB Guidelines	1.00

Notes:-

- The results are given only for the parameters for which sample has been analysed in products of analytical instruments.
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- The sample is to be analysed 15 days from the date of receipt of test report, beyond this the report is invalid.

Puran M. Yogi
Senior Analyst

Puran M. Yogi
Authorized Signatory
(Signature: 400000733)



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TEST REPORT

Report No./ULR No	25400000734	Date	25-04-2025
Issued To	M S Hindusthan Zinc Limited, Kayad Mines, Village Kayad, District Ajmer, Rajasthan.	Type of Unit	Minor
Type of sample Discipline	Ambient Air Quality Monitoring - Chemical	Date of Sample Collection Monitoring	18-04-2025 12:32 to 09-04-2025 12:32
Point of Collection	Gaowana Village (26°14'44"N 74°43'21"E)	Date of Receipt	12-04-2025
Date of Test/Analysis	10-04-2025 to 25-04-2025	Sampling Plan	IS 5182:2000(Part 14)RA 2014
Quantity of Sample	-	Sample Collected By	Prahalad yogi
Unit's representative	Mr. Prakash Sharma	Condition of Sample	Ft 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)	IS 5182 (Part 25): 2018	400.00
2	Carbon Monoxide [microgram/m3]	330	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]	13.71	IS 5182 (Part 6): 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	129.2	IS 5182 (Part 4): 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	26.15	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]	62.08	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]	3.9	TTH/AAQM/09	20.00

Notes:

1. The report is valid only for the parameters specified in the scope of the laboratory and the method used.
2. The report is not valid for the parameters specified in the scope of the laboratory and the method used, if the sample is not used for the purpose of the test.
3. The sample should be kept in the laboratory for the purpose of the test, if the sample is not used for the purpose of the test.

Puran Kaur Yogi
Senior Analyst

Prahalad yogi
Authorized Signatory

(Report No: 25400000734)



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TEST REPORT

Report No./ULR No. :	400000734	Date	25-04-2025
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	25-04-2025 12:32 to 09-04-2025 12:32
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	12-04-2025
Date of Test/Analysis :	12-04-2025 to 25-04-2025	Sampling Plan	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	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	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 :

- # The results listed refer only to the testing sample(s) as per parameters. No endorsement of product or service is implied or intended.
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Prahlad yogi
Senior Analyst

Authorized Signatory

(Report No: 400000734)



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TEST REPORT

Report No./LFR No.	(25400000735)	Date	25-04-2025
Issued To	M/S Hindustani Zinc Limited (Kavay Mines) Village Kavay, District Armer (Rajasthan)	Type of Unit	Mines
Type of Sample Discipline	Ambient Air Quality Monitoring (Chemical)	Date of Sample Collection/Monitoring	09-04-2025 12:33 to 09-04-2025 12:33
Point of Collection	Kavay Village (26°51'44.3"N 74°14'10.5"E)	Date of Receipt	21-04-2025
Date of Test/Analysis	12-04-2025 to 25-04-2025	Sampling Plan	IS 5182:2000 (Part 14) RA 2014
Quantity of Sample	-	Sample Collected By	Pranlad yogi
Unit's representative	Mr Prakash Sharma	Condition of Sample	Ft for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m ³]	BDL(<20)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m ³]	310	TTH/AAQM/08	4000
3	Lead [microgram/m ³]	0.17	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO ₂ [microgram/m ³]	13.17	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m ³]	BDL(<20)	IS 5182 (Part-9) : 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m ³]	138.14	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM _{2.5}) [microgram/m ³]	26.07	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m ³]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM ₁₀) [microgram/m ³]	71.45	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m ³]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m ³]	4.9	TTH/AAQM/09	20.00

Notes:-

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Soil Analysis

Authorized Signatory

(Report No. 25400000735)



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TEST REPORT

Report No./ULR No.	400000735	Date	25-04-2025
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	18-04-2025 12:33 to 09-04-2025 12:33
Point of Collection	Kayad Village (26°31'44.3"N, 74°41'16.5"E)	Date of Receipt	17-04-2025
Date of Test/Analysis	12-04-2025 to 25-04-2025	Sampling Plan	IS 5182 2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Prabhas yogi
Unit's representative	Mr. Prakash Sharma	Condition of Sample	Fitted 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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Prabhas Yogi
Senior Analyst

Prakash Sharma
Authorized Signatory
(Report No. 400000735)



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TEST REPORT

Report No./U.R No.	25600000577	Date :	25-04-2025
Issued To	M/S Hindustan Zinc Limited, Kayad Mines, Village Kayad, District Amer (Rajasthan)	Type of Unit	Mines
Type of sample Discipline	Ambient Noise Level Monitoring (Time and)	Date of Sample Collection Monitor	08-04-2025
Point of Collection	Kayad Village (26°31'44" N, 74°41'16" E)	Date of Receipt :	12-04-2025
Date of Test/Analysis	12-04-2025 to 25-04-2025	Sampling Plan	TTH-NOISE/01
Quantity of Sample	-	Sample Collected By	Prahlad yogi
Client's representative	Mr. Prakash Sharma	Condition of Sample	Ft 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)]	51.9	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	40.7	IS 9989	45

Notes

- The results are reported only to the extent of the test performed. It is disavowed of products and services not being tested.
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- The validity of the results is limited to the date of the test and the test report is not valid for other dates.

Prahlad Yogi
Senior Analyst

Rajesh Kumar Sharma
(Report No: 25600000577)



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TEST REPORT

Report No./ULR No. :	25600000578	Date	25-04-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayas Mines) Village Kayas, District Ajmer (Rajasthan)	Type of Unit	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	08-04-2025
Point of Collection	Lohagal Village [26°31'08.7"N, 74°39'31.8"E]	Date of Receipt	12-04-2025
Date of Test/Analysis	12-04-2025 to 25-04-2025	Sampling Plan	TTH-NOISE/01
Quantity of Sample :	-	Sample Collected By :	Prahlad yagi
Unit's representative :	Mr. Prakash Sharma	Condition of Sample	Fine 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)]	52.6	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	41.5	IS 9989	45

Notes

- # The results listed refer only to the tested samples and do not include Environmental Impact Assessment. They are not implied.
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Puran Mehta
Senior Analyst

Prahlad Yagi
Authorized Signatory
Report No. 25600000578



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TEST REPORT

Report No./ULR No.	25600000579	Date	25-04-2025
Issued To	M/S Hindustan Zinc Limited (Kavay Mines) Village Kavay, District Ajmer (Rajasthan)	Type of Unit	Mines
Type of sample Discipline	Ambient Noise Level Monitoring - Continuous	Date of Sample Collection Monitoring	08-04-2025
Point of Collection	Gagwana Village (26°31'44.4"N, 74°45'26.0"E)	Date of Receipt	12-04-2025
Date of Test Analysis	12-04-2025 to 25-04-2025	Sampling Plan	TTH NOISE/01
Quantity of Sample	-	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	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	53.7	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	43.5	IS 9989	45

Notes

- * The test results are given only for the test item and are not intended to be a guarantee of the quality of the test results.
- * The test results are given only for the test item and are not intended to be a guarantee of the quality of the test results.
- * The test results are given only for the test item and are not intended to be a guarantee of the quality of the test results.

Puran Kishor
Senior Analyst

Authorized Signatory
(Report No: 25600000579)



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TEST REPORT

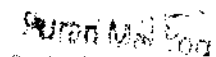
Report No./ULR No. :	25600000580	Date	25-04-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan)	Type of Unit :	Mines
Type of sample Discipline	Ambient Noise Level Monitoring - Chemical	Date of Sample Collection/Monitoring :	05-04-2025
Point of Collection	Sub Station	Date of Receipt	12-04-2025
Date of Test/Analysis :	12-04-2025 to 25-04-2025	Sampling Plan	TTH-NOISE (01)
Quantity of Sample :	-	Sample Collected By	Pranlal yogi
Unit's representative	Mr Prakash Sharma	Condition of Sample	Fit for testing

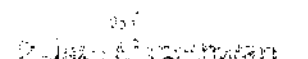
RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	65.2	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	56.7	IS 9989	65

Notes

- The results listed here are for the tested samples & products only. Enhancement in products or process may require re-test.
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Senior Analyst


Authorized Signatory
Report No. 25600000580



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TEST REPORT

Report No./ULR No.	25400000870	Date	20/05-2025
Issued To	M.S. Hindustan Zinc Limited, Kayad Mines, Village Kayad, District Amer, Rajasthan.	Type of Unit	Mines
Type of sample & discipline	Ambient Air Quality Monitoring - Chemical	Date of Sample Collection Monitoring	07-05-2025 to 08-05-2025
Point of Collection	Near Sub Station	Date of Receipt	13/05/2025
Date of Test Analysis :	13-05-2025 to 20-05-2025	Sampling Plan	IS 5182 2006 (Part 14) RA 2014
Quantity of Sample	-	Sample Collected By	Sataram 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/mc]	BDL < 20	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	350	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]	14.72	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL < 20	IS 5182 (Part-9) : 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	148.89	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	36.48	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	7.5	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	77.16	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]	3.2	TTH/AAQM/09	20.00

Notes:

- The report is valid only if the test is performed in accordance with the procedure specified in the test method.
- The report is not valid if the test is performed in accordance with the procedure specified in the test method but the test results are not used in any form.
- The report is not valid if the test is performed in accordance with the procedure specified in the test method but the test results are not used in any form.

Puran Mai Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory

(Report No. 25400000870)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	400000870	Date :	20-05-2025
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 :	07-05-2025 10:25 to 08-05-2025 10:25
Point of Collection :	Near Sub Station	Date of Receipt :	13-05-2025
Date of Test/Analysis :	13-05-2025 to 20-05-2025	Sampling Plan :	IS 5182 2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Staram 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 :-

- * The results listed refer only to the tested sample as a particular test and does not include the method or reference required.
- * This report is not to be reproduced wholly or in part and can not be used evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- * The samples will be destroyed after 30 days from the date of issue of the Report unless otherwise specified.

Puran Mal Yogi
Senior Analyst

Rajesh Maneshwari
Authorized Signatory
(Report No. 400000870)



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TEST REPORT

Report No./UIR No.	25400000871	Date	20-05-2025
Issued To	M/S Hindustan Zinc Limited, Bagad Mines, Village Kaland, District Amrit, Rajasthan	Type of Unit	Mines
Type of sample Discipline	Ambient Air Quality Monitoring - Chemical	Date of Sample Collection Monitoring	17-05-2025 to 27-05-2025 (10 d ⁷)
Point of Collection	Near CRF	Date of Receipt	13-05-2025
Date of Test/Analysis	13-05-2025 to 20-05-2025	Sampling Plan	IS 5182:2000(Part 14)RA 2014
Quantity of Sample		Sample Collected By	Sitaran 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 ³]	BDL(< 20)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m ³]	390	TTH/AAQM/08	4000
3	Lead [microgram/m ³]	0.14	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO ₂ [microgram/m ³]	14.31	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m ³]	BDL(< 20)	IS 5182 (Part-9) : 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m ³]	155.97	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM _{2.5}) [microgram/m ³]	34.88	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m ³]	6.85	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM ₁₀) [microgram/m ³]	78.16	IS 5182 (Part 23) : 2006 RA 2017	100.00
10	Arsenic [ng/m ³]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m ³]	4.7	TTH/AAQM/09	20.00

Notes:

1. The sample was collected from the specified location and analyzed as per the method specified in the protocol.
2. The sample was analyzed as per the method specified in the protocol and the result is reported as per the method specified in the protocol.
3. The sample was analyzed as per the method specified in the protocol and the result is reported as per the method specified in the protocol.

Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 25400000871)



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TEST REPORT

Report No./ULR No. :	400000871	Date	20-05-2025
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	17-05-2025 10:27 to 18-05-2025 10:27
Point of Collection :	Near CRF	Date of Receipt :	13-05-2025
Date of Test/Analysis :	13-05-2025 to 20-05-2025	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 :-

- # The results listed refer only to the tested sample(s) & parameter(s). Engagement in projects is neither implied nor implied.
- # This report is not to be reproduced wholly or in part and it is not to be used as evidence in the court of law and should not be used in any advertising material without our special permission in writing.
- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No. 400000871)



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TEST REPORT

Report No./ULR No.	25400000872	Date	20-05-2025
Issued To	M/S Hindustan Zinc Limited, Rajap Mines, Village Kavad, District Amer, Rajasthan	Type of Unit	Mines
Type of sample Discipline	Ambient Air Quality Monitoring - Chemical	Date of Sample Collection Monitoring	07-05-2025 10:29 to 08-05-2025 10:29
Point of Collection	Near ANFO Station	Date of Receipt	13-05-2025
Date of Test/Analysis	13-05-2025 to 20-05-2025	Sampling Plan	IS 5182:2000(Part 14)RA 2014
Quantity of Sample	-	Sample Collected By	Sitaram Jangid
Unit's representation	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 ³]	BDL(<20)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m ³]	380	TTH/AAQM/08	4000
3	Lead [microgram/m ³]	0.16	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO ₂ [microgram/m ³]	14.4	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m ³]	BDL(<20)	IS 5182 (Part-9) : 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m ³]	161.47	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM _{2.5}) [microgram/m ³]	30.26	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m ³]	6.78	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM ₁₀) [microgram/m ³]	86.74	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m ³]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m ³]	5.5	TTH/AAQM/09	20.00

Notes:

- A - The test results are given in microgram/m³ for particulate matter, in microgram/m³ for lead, in microgram/m³ for ammonia, in microgram/m³ for carbon monoxide, in microgram/m³ for nitrogen dioxide, in microgram/m³ for sulphur dioxide, in microgram/m³ for ozone, in microgram/m³ for suspended particulate matter, in microgram/m³ for particulate matter (PM_{2.5}), in microgram/m³ for particulate matter (PM₁₀), in ng/m³ for arsenic, in ng/m³ for nickel.
- B - The test results are given in microgram/m³ for particulate matter, in microgram/m³ for lead, in microgram/m³ for ammonia, in microgram/m³ for carbon monoxide, in microgram/m³ for nitrogen dioxide, in microgram/m³ for sulphur dioxide, in microgram/m³ for ozone, in microgram/m³ for suspended particulate matter, in microgram/m³ for particulate matter (PM_{2.5}), in microgram/m³ for particulate matter (PM₁₀), in ng/m³ for arsenic, in ng/m³ for nickel.
- C - The test results are given in microgram/m³ for particulate matter, in microgram/m³ for lead, in microgram/m³ for ammonia, in microgram/m³ for carbon monoxide, in microgram/m³ for nitrogen dioxide, in microgram/m³ for sulphur dioxide, in microgram/m³ for ozone, in microgram/m³ for suspended particulate matter, in microgram/m³ for particulate matter (PM_{2.5}), in microgram/m³ for particulate matter (PM₁₀), in ng/m³ for arsenic, in ng/m³ for nickel.

Puran Mal Yogi
Senior Analyst

Rajesh Asheshwari

Authorized Signatory

(Report No. 25400000872)



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TEST REPORT

Report No./ULR No.	400000872	Date	23-05-2025
Issued To :	M.S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Aimer, Rajasthan	Type of Unit	Mines
Type of sample Discipline	Ambient Air Quality Monitoring, Chemical	Date of Sample Collection/Monitoring	07-05-2025 10:29 to 08-05-2025 10:29
Point of Collection	Near ANFO Station	Date of Receipt	13-05-2025
Date of Test/Analysis :	13-05-2025 to 20-05-2025	Sampling Plan	IS 5182 2000(Part 14)RA 2014
Quantity of Sample	-	Sample Collected By	S. Iyaram Jangid
Unit's representative	Mr. Prakash Sharma	Condition of Sample	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 :

- # The results are given only for the tested parameters and are not to be used for any other purpose.
- # This report is not to be reproduced without the permission of the laboratory. It is not to be used in any advertisement without the special permission of the lab.
- # The sample was tested after 7 days from the date of receipt. The report is valid only for 7 days.

Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No. 400000872)



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TEST REPORT

Report No./ULR No.	25400000873	Date	20-05-2025
Issued To	M/S Hindustan Zinc Limited (Kavay Mines) Village Kavay, District Armer, Rajasthan	Type of Unit	Mines
Type of sample / Description	Ambient Air Quality Monitoring - Chemical	Date of Sample Collection/ Monitoring	18-05-2025 10:30 to 07-05-2025 10:30
Point of Collection	Li Nagar Village, 26°12'18" N, 74°19'20" E	Date of Receipt	13-05-2025
Date of Test/Analysis	13-05-2025 to 20-05-2025	Sampling Plan	IS 5182 2000: Part 14: RA 2014
Quantity of Sample	-	Sample Collected By	Sitaram Jangid
Client representative	Mr. Prakash Sharma	Condition of Sample	Fitter testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m ³]	BDL (< 2.0)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m ³]	330	TTH/AAQM/08	4000
3	Lead [microgram/m ³]	0.23	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO ₂ [microgram/m ³]	13.96	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m ³]	BDL (< 2.0)	IS 5182 (Part-9) : 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m ³]	132.96	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM _{2.5}) [microgram/m ³]	31.75	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m ³]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM ₁₀) [microgram/m ³]	74.87	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m ³]	BDL (< 2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m ³]	11.2	TTH/AAQM/09	20.00

Notes:

1. The report is valid only for the purpose for which it is issued. It is not valid for any other purpose.
2. The report is valid only for the purpose for which it is issued. It is not valid for any other purpose.
3. The report is valid only for the purpose for which it is issued. It is not valid for any other purpose.
4. The report is valid only for the purpose for which it is issued. It is not valid for any other purpose.

Puran Mal Yogi
Senior Analyst

Rajesh Maneshwari
Authorized Signatory
(Report No. 25400000873)



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TEST REPORT

Report No./ULR No.	40000873	Date	20-05-2025
Issued To	M/S Hindustan Zinc Limited, Kayad Mines, Village Kayad, District Amer, Rajasthan	Type of Unit	Mines
Type of sample Discipline :	Ambient Air Quality Monitoring - Chemical	Date of Sample Collection Monitoring	08-05-2025 10:30 to 07-05-2025 10:30
Point of Collection	Lonagal Village (26°31'06.7"N 74°59'30.8"E)	Date of Receipt	13-05-2025
Date of Test Analysis :	13-05-2025 to 20-05-2025	Sampling Plan	IS 5182:2009 Part 14 (RA 2014)
Quantity of Sample :	-	Sample Collected By :	Sitaranjan d
Unit's representative	Mr. Prakash Sharma	Signature of Sample	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-lfa- Pyrene [ng/m3]	BDL (<1.0)	CPCB Guidelines	1.00

Remarks

- The results are derived from the analytical results of the samples collected during the monitoring period.
- The results should be reviewed when the laboratory is notified of any changes in the sampling method or the analytical method used.
- The samples were kept in the laboratory for the purpose of re-analysis if required.

Puran Mair Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No. 40000873)



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TEST REPORT

Report No./ULR No.	25400000874	Date	20-05-2025
Issued To	M/S Hindustan Zinc Limited (Rajan Mines)- Village Kajod, District Armer (Rajasthan)	Type of Unit	Mines
Type of sample Discipline	Ambient Air Quality Monitoring - Chemical	Date of Sample Collection Monitoring	16-05-2025 10:32 to 07-05-2025 10:32
Point of Collection	Gagwana Village [26°15'14.4"N 74°42'20.1"E]	Date of Receipt	13-05-2025
Date of Test Analysis	13-05-2025 to 20-05-2025	Sampling Plan	IS 5182:2000(Part 14)RA 2014
Quantity of Sample	-	Sample Collected By:	Siraram 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)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	340	TTH/AAQM/08	4000
3	Lead [microgram/m3]	11.18	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	12.97	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) : 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	135.83	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	28.44	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]	70.13	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]	7.5	TTH/AAQM/09	20.00

Notes:

1. The test results are valid only for the parameters and units specified in the report.
2. The test results are valid only for the parameters and units specified in the report.
3. The test results are valid only for the parameters and units specified in the report.
4. The test results are valid only for the parameters and units specified in the report.

Puran Mal Yogi
Senior Analyst

Rajesh Achwari
Authorized Signatory
Report No. 25400000874



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TEST REPORT

Report No./ULR No. :	400000874	Date :	20-05-2025
Issued To :	M S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Amer (Rajasthan)	Type of Unit :	Mines
Type of sample Discipline :	Ambient Air Quality Monitoring - Chemistry	Date of Sample Collection Monitoring :	06-05-2025 10:32 to 07-05-2025 10:32 hrs
Point of Collection :	Gagwana Village (26°21'44.4"N, 74°43'29.1"E)	Date of Receipt :	13-05-2025
Date of Test/Analysis :	13-05-2025 to 20-05-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :		Sample Collected By :	Sitaran Jangir
Unit's representative :	Mr. Prakash Sharma	Condition of Sample :	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

- # This report is confidential to the client and is not to be used for any other purpose without the prior written consent of the client.
- # This report is to be read and used only in conjunction with the test report. It is not to be used for any other purpose without the prior written consent of the client.
- # The sample is to be used for the purpose of the test only and is not to be used for any other purpose without the prior written consent of the client.


Puran Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No. 400000874)



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TEST REPORT

Report No./ULR No	25400000875	Date :	20-05-2025
Issued To	M/S Hindustan Zinc Limited (Kavay Mines) Village Kayad, District Ajmer (Rajasthan)	Type of Unit	Mines
Type of sample / Discipline	Ambient Air Quality Monitoring - Chemical	Date of Sample Collection-Monitoring	06-05-2025 *0 33 to 07-05-2025 *0 33
Point of Collection	Kayad village [26°31'44.3"N 74°41'15.5"E]	Date of Receipt	13-05-2025
Date of Test/Analysis	13-05-2025 to 20-05-2025	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)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	320	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.21	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	13.95	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) : 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	119.3	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	25.42	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]	72.71	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]	7.1	TTH/AAQM/09	20.00

Notes:

- # The results of the test are given in this report in SI units and in the units specified in the test methods employed.
- # This report is to be reported as wholly, completely and accurately as possible, in the light of law and order to be used in any other legal proceedings with the exception of the test method.
- # The test is for the test method only. The test results are not to be reported as such, unless the test method is specified.

Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No. 25400000875)



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TEST REPORT

Report No./ULR No.:	400000875	Date	20-05-2025
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	08-05-2025 10:33 to 07-05-2025 10:33
Point of Collection	Kayad Village, [26° 51'44.3"N 74° 11' 16.5"E]	Date of Receipt	13-05-2025
Date of Test/Analysis:	13-05-2025 to 20-05-2025	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

- * The result is to be interpreted in the context of the test conditions and sampling methods used.
- * This report is valid only when read with the sample report and the test results are in the context of the test conditions and sampling methods used.
- * The sample is to be kept in the laboratory for the purpose of re-testing if required.

Puran Mai Yogi
Senior Analyst

Rajesh Mishra
Authorized Signatory
(Report No. 400000875)



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TEST REPORT

Report No./ULR No.:	25400001014	Date	04-06-2025
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	27-05-2025 14:58 to 28-05-2025 14:58
Point of Collection	Near Sub Station	Date of Receipt	29-05-2025
Date of Test/Analysis	29-05-2025 to 04-06-2025	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)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	320	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]	14.74	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL (< 20)	IS 5182 (Part-9) : 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	144.76	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	32.79	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.17	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	81.62	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	TTH-AAQM/09	20.00

Notes

- # The results listed refer to the fresh sample received from the client. End use of the products in the field is not implied.
- # This report is not to be reproduced wholly or in part and is not to be used elsewhere in the court of law and it is not to be used in any advertisement or for any other purpose without the written consent of the laboratory.
- # The laboratory is not responsible for the safety of the samples received from the client. The client is responsible for the safety of the samples.

Rajesh Maheshwari
Senior Analyst

Rajesh Maheshwari
Authorized Signatory

(Report No. 25400001014)



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TEST REPORT

Report No./ULR No.	400001014	Date	04-06-2025
Issued To	M/S Hindusthan Zinc Limited -Kavadi Mines- Village Kayad - District Ajmer (Rajasthan)	Type of Unit	Mines
Type of sample/ Discipline	Ambient Air Quality Monitoring - Chemical	Date of Sample Collection/Monitoring	27-05-2025 14:58 to 28-05-2025 14:58
Point of Collection	Near Sub Station	Date of Receipt	29-05-2025
Date of Test/Analysis	29-05-2025 to 04-06-2025	Sampling Plan	IS 5182:2000(Part 14)RA 2014
Quantity of Sample	-	Sample Collected By	Sularam 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 :

- # The results listed refer only to the tested sample and do not include any other products or materials tested or sampled.
- # This report is not to be reproduced, wholly or in part, or not to be used as evidence in any court of law, nor to be used in any advertising media without our consent at our sole discretion.
- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Puran Mal Yogi
Senior Analyst

Rajesh Mishra
Authorized Signatory
(Report No. 400001014)



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TEST REPORT

Report No./ULR No.	25400001015	Date	04-06-2025
Issued To	M/S Hindustan Zinc Limited, Kavad Mines, Village Kavad, District Amer, Rajasthan	Type of Unit	Mines
Type of sample Discipline	Ambient Air Quality Monitoring - Chemical	Date of Sample Collection/Monitoring	27-05-2025 15:00 to 28-05-2025 15:00
Point of Collection	Near CRF	Date of Receipt	29-05-2025
Date of Test/Analysis	29-05-2025 to 04-06-2025	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 ³]	BDL(< 20)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m ³]	340	TTH/AAQM/08	4000
3	Lead [microgram/m ³]	0.13	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO ₂ [microgram/m ³]	15.11	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m ³]	BDL(< 20)	IS 5182 (Part-9) : 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m ³]	135.55	IS 5182 (Part 4) : 1999 RA 2019	500
7	Particulate Matter (PM _{2.5}) [microgram/m ³]	33.71	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m ³]	6.4	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM ₁₀) [microgram/m ³]	74.45	IS 5182 (Part 23) : 2006 RA 2017	100.00
10	Arsenic [ng/m ³]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m ³]	2.4	TTH/AAQM/09	20.00

Notes:

- # The results are only valid to the test conditions and procedures followed. Unplanned or unexpected results may be observed if the test is not performed correctly.
- # This report is for the information of the client only. It is not to be used for any other purpose without the written consent of the laboratory.
- # The quality of the test results is dependent on the quality of the sample and the quality of the test results is not guaranteed.

Puran Mal Yadav
Senior Analyst

Rajesh Maneshwari
Authorized Signatory

(Report No. 25400001015)



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TEST REPORT

Report No./ULR No. :	400001015	Date	04-06-2025
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 :	27-05-2025 15:00 to 28-05-2025 15:00
Point of Collection	Near CRF	Date of Receipt :	29-05-2025
Date of Test/Analysis :	29-05-2025 to 04-06-2025	Sampling Plan	IS 5182 2000(Part 14)RA 2014
Quantity of Sample :		Sample Collected By :	Sitaranjangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample	F : 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 :

- # The results listed refer only to the tested sample(s) & parameter(s). Endorsement or signature of the person(s) is not implied.
- # This report is not to be reproduced wholly or in part and is not to be used evidence in the court of law. It is not to be used in any advertising media without our special permission in writing.
- # The samples will be destroyed after 15 days from the date of issue of test report, unless otherwise specified.

Puran May Yogi
Senior Analyst

Rajesh Maheshwari
(Report No. 400001015)



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TEST REPORT

Report No./ULR No. :	25400001016	Date :	04-06-2025
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	27-05-2025 15:01 to 28-05-2025 15:01
Point of Collection	Near ANFO Station	Date of Receipt :	29-05-2025
Date of Test/Analysis :	29-05-2025 to 04-06-2025	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)	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]	14.99	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) : 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	147.25	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	38.33	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.41	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	79.45	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	TTH/AAQM/09	20.00

Notes :-

- # The results are valid only for the tested samples & are not to be used for representation of products, site or the entire test sample.
- # This report is for reference only and should not be used as evidence in the court of law. Any such use will be at the user's risk.
- # This sample will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 25400001016)



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TEST REPORT

Report No./ULR No	400001016	Date :	04-06-2025
Issued To :	M.S. Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Amer (Rajasthan)	Type of Unit	Mines
Type of sample Discipline :	Ambient Air Quality Monitoring - Chemical	Date of Sample Collection Monitoring	27-05-2025 15:01 to 28-05-2025 15:01
Point of Collection	Near ANFO Station	Date of Receipt	29-05-2025
Date of Test/Analysis	29-05-2025 to 04-06-2025	Sampling Plan	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By	Sataram 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 :-

- # The results listed refer only to the tested sample and parameters. No endorsement or products or methods is being implied.
- # This report is not to be reproduced wholly or in part and can not be used evidence in the court of law and should not be used in any advertisement or media without our special permission in writing.
- # The samples will be destroyed after 30 days from the date of receipt of the report unless otherwise specified.

(Signature)
Senior Analyst Yog

(Signature)
Authorized Signatory

(Report No. 400001016)



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TEST REPORT

Report No./ULR No.:	25400001017	Date:	04-06-2025
Issued To:	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Amer (Rajasthan)	Type of Unit:	Mines
Type of sample / Discipline:	Ambient Air Quality Monitoring - Chemical	Date of Sample Collection Monitoring:	26-05-2025 15:02 to 27-05-2025 15:02
Point of Collection:	Lonagal Village (26°51'08.7"N / 74°39'30.8"E)	Date of Receipt:	29-05-2025
Date of Test/Analysis:	29-05-2025 to 04-06-2025	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	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	210	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.28	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]	BDL < 20	IS 5182 (Part-9) : 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	129.33	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	25.13	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]	68.18	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]	2.1	TTH/AAQM/09	20.00

Notes:

- # The results are subject to the following conditions: Sample collection and analysis are conducted in accordance with the relevant standards.
- # This report is not to be reproduced without the prior written consent of the laboratory. Any unauthorized use or modification of the report is strictly prohibited.
- # The samples are to be destroyed after 10 days from the date of analysis if not required for any other use as per the policy.

Rutan Mal Yogi
Senior Analyst

Rajesh Vatsa
Senior Analyst

Report No. 25400001017



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TEST REPORT

Report No./ULR No.	400001017	Date	04-06-2025
Issued To	M.S. Hindusthan Zinc Limited, Kalyan Maheshwari Village Kalyan, District Ajmer (Rajasthan)	Type of Unit	Minor
Type of sample / Discipline :	Ambient Air Quality Monitoring - Chemical	Date of Sample Collection/Monitoring	26-05-2025 15:02 to 27-05-2025 15:02
Point of Collection	Lohagaj Village [26°31'08.7"N 74°38'30.8"E]	Date of Receipt	29-05-2025
Date of Test/Analysis :	28-05-2025 to 04-06-2025	Sampling Plan	IS 5182:2000(Part 14)/RA 2017
Quantity of Sample :	-	Sample Collected By :	Satish 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 ³]	BDL(<2.0)	IS 5182 (Part 11): 2012 RA 2017	5.00
13	Benzo-alfa- Pyrene [ng/m ³]	BDL(<1.0)	CPCB Guidelines	1.00

Notes :

- # The results listed refer only to the tested samples. A disclaimer is provided to the client regarding the same.
- # This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law or in any advertising media without our special permission in writing.
- # The samples will be destroyed after 10 days from the date of receipt of test report unless specified otherwise.

Puran Mal Yogi
Senior Analyst

Satish Jangid
Authorized Signatory
(Report No. 400001017)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No.	25400001018	Date	04-06-2025
Issued To :	M/S Hindustan Zinc Limited (Kayad Mines) Village Kayad District Armer (Rajasthan)	Type of Unit :	Mines
Type of sample Discipline	Ambient Air Quality Monitoring Chemical	Date of Sample Collection Monitoring	29-05-2025 15:03 to 27-05-2025 15:03
Point of Collection	Gagwana Village (26°31'44.4"N 74°14'26.1"E)	Date of Receipt	29-05-2025
Date of Test/Analysis	29-05-2025 to 04-06-2025	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	Fair 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)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	240	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.26	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	13.21	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) : 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	129.77	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	27.13	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]	74.85	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	TTH/AAQM/09	20.00

Notes

- # This report is valid only if the sample is properly preserved and analyzed within the specified time frame.
- # This report is for the reference only and is not to be used for any legal or regulatory purpose. It is not to be used in any court of law.
- # The sample was found to be within the limits of the standard. The report is valid only if the sample is properly preserved and analyzed within the specified time frame.

Puran Mal Yog
Senior Analyst

Rajesh Maheshwari
Report No. : 25400001018



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TEST REPORT

Report No./ULR No.	400001018	Date	04-06-2025
Issued To	M/S Hindustan Zinc Limited, Kayad Mines, Village Kayad, District Armer (Rajasthan)	Type of Unit	Mines
Type of sample Discipline	Ambient Air Quality Monitoring - Chemical	Date of Sample Collection Monitoring	26-05-2025 15:03 to 27-05-2025 15:03
Point of Collection	Gagwana Village [26°31'44.4"N, 74°43'29.1"E]	Date of Receipt	29-05-2025
Date of Test/Analysis	29-05-2025 to 04-06-2025	Sampling Plan	IS 5182:2000(Part 14)RA 2014
Quantity of Sample	-	Sample Collected By	Sitaram Jangid
Unit's representative	Mr. Prakash Sharma	Cerification 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 :-

- # The results listed refer only to the substances explicitly mentioned in the report and do not extend to other substances not mentioned.
- # This report is not to be reproduced wholly or in part and is not to be used elsewhere without the written permission of the laboratory.
- # The samples will be destroyed after 30 days from the date of receipt of the report unless otherwise specified.

Puran Majhi
Senior Analyst

Rajesh Maheshwar
Authorized Signatory

(Report No. 400001018)



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TEST REPORT

Report No. / LR No.	25400001092	Date	19-06-2025
Issued To	M.C. Engineering College, Khatola, Khatola Village, Khatola, District Amber, Rajasthan	Type of Test	Minor
Type of sample Discipline	Ambient Air Quality Monitoring (AAQM)	Date of Sample Collection/Monitoring	14-06-25 08:00 to 15-06-2025 13:00
Point of Collection	Near Sub Station	Date of Receipt	16-06-2025
Date of Test Analysis	16-06-2025 to 19-06-2025	Sampling Plan	IS 5182:2000/Part 14/RA 2012
Quantity of Sample		Sample Collected By	Rakesh Sharma
Unit's representative	Mr. Prakash Sharma	Condition of Sample	Fitted testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL (<2.0)	IS 5182 (Part 25) : 2015	400.00
2	Carbon Monoxide [microgram/m3]	370	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.12	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.94	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL (<2.0)	IS 5182 (Part-9) : 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	152.74	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	35.66	IS 5182 (Part 24) : 2014	60.00
8	Sulphur Dioxide [microgram/m3]	6.77	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	64.29	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]	2.8	TTH/AAQM/09	20.00

Notes:

1. The test results are based on the samples received at the laboratory on the date of receipt.
2. The test results are based on the samples received at the laboratory on the date of receipt.
3. The test results are based on the samples received at the laboratory on the date of receipt.
4. The test results are based on the samples received at the laboratory on the date of receipt.

Signature
Senior Analyst

Signature
Ajayash Maneshwar
Authorized Signatory
Report No. : 25400001092



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TEST REPORT

Report No./TLR No.	400001092	Date	19-06-2025
Issued To	M. S. Hindustan Zinc Limited, Kailash Mines, Village Kailash, District Ajmer, Rajasthan	Type of Test	Minerals
Type of sample / Discipline	Ambient Air Quality Monitoring - Chemical	Date of Sample Collection / Monitoring	14-06-2025 13:08 to 15-06-2025 13:08
Point of Collection	Near Sub Station	Date of Receipt	16-06-2025
Date of Test/Analysis	16-06-2025 to 16-06-2025	Sampling Plan	IS 5182 : Part 14:RA 2017
Quantity of Sample		Sample Collected By	Rakesh Sharma
Unit's representative	Mr. Prakash Sharma	Condition of Sample	Fit for test and

RESULTS

S.No	Parameters	Observed value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgramm/m3]	BDL(<2.0)	IS 5182 :Part 14, 2017 RA 2017	5.00
13	Benzo-alfa- Pyrene [ng/m3]	BDL(<1.0)	CPCB Guidelines	1.00

Notes :-

- The results of this report are the responsibility of the client and not of the laboratory.
- This report is to be read/rechecked with the sampling and testing procedure followed in the laboratory and the report is to be signed by the client and the laboratory.
- The samples will be destroyed after 15 days from the date of receipt of the report.

Senior Analyst

(Signature)

Author and Signatory

(Report No. 400001092)



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TEST REPORT

Report No./L.R. No.	T25400091094	Date	14-06-2025
Issued To	M.S. Industries/Free Limited, Kavat Mines (Village Kavat, District Amber, Rajasthan)	Type of Unit	Mines
Type of sample Discipline	Ambient Air Quality Monitoring - Chemical	Date of Sample Collection/Monitoring	14-06-2025 04:16 to 15-06-2025 14:16
Point of Collection	Near AMQ Station	Date of Receipt	16-06-2025
Date of Test/Analysis	17-06-2025 16:15 to 17-06-2025	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	Ft 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	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	380	TTH/AAQM/08	4000
3	Lead [microgram/m3]	3.13	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.82	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL < 20	IS 5182 (Part-9) : 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	139.34	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	37.63	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.61	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	86.54	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL < 0.1	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	0.00	TTH/AAQM/09	20.00

Remarks:

- The sample was collected from the specified location and analyzed as per the protocol.
- The report is generated as per the protocol and the results are within the limits specified in the protocol.
- The sample was analyzed as per the protocol and the results are within the limits specified in the protocol.

Rajesh Mani Yadav
Senior Analyst

Rajesh Mani Yadav
Authorized Signatory
(Report No. T25400091094)



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TEST REPORT

Report No./ULR No. :	400001094	Date :	19-06-2025
Issued To :	M/S Hindustan Zinc Limited, Kaya Mines, Village Kaya, District Ajmer, Rajasthan	Type of Unit :	Mines
Type of sample Discipline	Ambient Air Quality Monitoring (Continuous)	Date of Sample Collection Monitor :	14-06-2025 (04:10 to 15:45) (14-06-2025)
Point of Collection	Near ANFO Station	Date of Receipt	17-06-2025
Date of Test/Analysis :	16-06-2025 to 19-06-2025	Sampling Plan	IS 5132:2000(Part 14)RA 2017
Quantity of Sample		Sample Collected By	Rakesh Sharma
Unit's representative	Mr. Prakash Sharma	Condition of Sample	Preserved

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene (microgram/m3)	BDL (<1)	IS 5132 (Part 14) - 2017 RA 2017	5.00
13	Benzo-alfa- Pyrene (ng/m3)	BDL (<1.0)	CPCB Guidelines	1.00

Remarks

- # The results are to be used for the test only and are not to be used for any other purpose.
- # This report is to be reported with all the necessary details and signed by the authorized person only.
- # The sample was kept under proper conditions and analyzed within the specified time.

Senior Analyst

Authorized Signatory
(Report No. 40001094)



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TEST REPORT

Report No./ULR No.	25400001093	Date	19-06-2025
Issued To	M S Hindusthan Zinc Limited (Kavay Mines Village Kavay, District Ajmer, Rajasthan)	Type of Unit	Mines
Type of sample Discipline	Ambient Air Quality Monitoring - Chemical	Date of Sample Collection Monitoring	14-06-2025 08:17 to 15-06-2025 03:17
Point of Collection	Near CRF	Date of Receipt	16-06-2025
Date of Test/Analysis	16-06-2025 to 19-06-2025	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	Ft 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)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	320	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.12	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.47	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(<20)	IS 5182 (Part-9) : 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	144.18	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	33.1	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.66	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	83.9	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]	2.7	TTH/AAQM/09	20.00

Notes:

- The results listed are only for the parameters specified. No responsibility is accepted for parameters not specified in the sample.
- This report is valid only for the period of time specified in the report. The results are not valid for any other purpose.
- The samples are the responsibility of the client. The results are not valid if the samples are not properly handled.

Rajan Mal Yogi
Senior Analyst

Rakesh Chhabra
Authorized Signatory
Report No: 25400001093



UNIT OF TEST HOUSE OF SCIENCE & TECHNOLOGY

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TEST REPORT

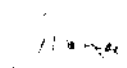
Report No./ULR No.	400001093	Date	10/05/2025
Issued To	M/S Hindustan Zinc Limited, Kavad Mines, Village Kavad, District Amber, Rajasthan	Type of Test	Water
Type of sample Discipline	Ambient Air Quality Monitoring (Water)	Date of Sample Collection Month	14-05-2025 to 17-05-2025
Point of Collection	Near CRF	Date of Receipt	14-05-2025
Date of Test/Analysis	16-05-2025 to 19-06-2025	Sampling Plan	IS 5192 (Part 11) RA 2017
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)	IS 5192 (Part 11), 2017 RA 2017	5.00
13	Benzo-alfa- Pyrene [ng/m3]	BDL(<1.0)	CPCB Guidelines	1.00

Notes

- # The results are made available to the client through website only. To be sent to the project site for the sample report.
- # This report is not to be used as evidence of compliance with the law and does not constitute an assurance of compliance with the law or any other standard or regulatory requirement.
- # The samples will be destroyed after testing. No further report will be generated for the same.


Senior Analyst Mr. Yogesh


Authorized Signatory
(Report No. 400001093)



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TEST REPORT

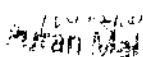
Report No./U.R No.	25400001096	Date	19-06-2025
Issued To	M.S. Hindustan Zinc Limited, Kayad Mines Village Kayad, District Ajmer, Rajasthan	Type of Unit	Mines
Type of sample / Discipline	Ambient Air Quality Monitoring - Chemical	Date of Sample Collection/Monitoring	13-06-2025 05:44 to 14-06-2025 05:44
Point of Collection	Gagwana Village (26°31'44.4"N, 74°42'20.1"E)	Date of Receipt	16-06-2025
Date of Test/Analysis	18-06-2025 to 19-06-2025	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	Fitted testing

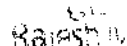
RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m ³]	BDL (<20)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m ³]	220	TTH/AAQM/08	4000
3	Lead [microgram/m ³]	0.12	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO ₂ [microgram/m ³]	13.88	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m ³]	BDL (<20)	IS 5182 (Part-9) : 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m ³]	116.57	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM _{2.5}) [microgram/m ³]	27.46	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m ³]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM ₁₀) [microgram/m ³]	58.28	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m ³]	BDL (<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m ³]	5.1	TTH/AAQM/09	20.00

Notes:

- The results are given in the table above. All values are within the limits specified in the table above.
- The report is for the purpose of information only. It is not intended to be used for any legal or regulatory purpose.
- The samples were collected during the period specified in the report. No other samples were collected.


 Anil Kumar
 Senior Analyst


 Rajesh Maheshwar
 Authorized Signatory
 (Report No. 25400001096)



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TEST REPORT

Report No./ULR No.	400001096	Date	15-06-2025
Issued To	M/S Hindustan Zinc Limited (Kajadi Mines Village Kajadi, District Amritsar, Rajasthan)	Type of Unit	Mines
Type of sample / Discipline	Ambient Air Quality Monitoring / Chemistry	Date of Sample Collection Monitoring	13-06-2025 05:44 to 14-06-2025 05:44
Point of Collection	Gagwana village (26°31'44.4 N, 74°45'37.1 E)	Date of Receipt	15-06-2025
Date of Test Analysis	16-06-2025 to 19-06-2025	Sampling Plan	IS 5182:2000(Part 14)RA 2017
Quantity of Sample	-	Sample Collected By	Rakesh Sharma
Unit's representative	Mr. Rakesh Sharma	Condition of Sample	Fresh tested

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): 2017 RA 2017	5.00
13	Benzo-alfa- Pyrene [ng/m3]	BDL<1.0	CPCB Guidelines	1.00

Notes

- The test results refer only to the tested sample and are not to be used for any other purpose.
- This report is not to be reproduced without the permission of the test house. The test house is not to be used in any advertisement without the special permission of the test house.
- The sample will be preserved after the test for 30 days. After this period, the sample will be destroyed.

Signature
Senior Analyst (MCA/TOQ)

Signature
Authorized Signatory
(Report No. 400001096)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No. / LR No.	254100001095	Date	19-06-2025
Issued To	M. Hrudeshan Zirconia India Pvt. Ltd., Village, Rayad, District Ajmer, Rajasthan	Type of Test	Minor
Type of sample / Description	Ambient Air Quality Monitoring - Chemical	Date of Sample Collection / Monitoring	13-06-2025 (04:37 to 14:04) 2025 (14:37)
Point of Collection	254100001095 (RHO Industrial Area)	Date of Receipt	18-06-2025
Date of Test/Analysis	16-06-2025 to 19-06-2025	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	Ambient Air Quality Monitoring - Chemical	BDL < 2.0	IS 5182 (Part 25) : 2019	400.00
2	Carbon Monoxide [microgram/m3]	240	TTH/AAQM/08	4000
3	Lead [microgram/m3]	Less than 0.1	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 < 2.0	IS 5182 (Part-9) : 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	131.89	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	26.57	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	Less than 5.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM10) [microgram/m3]	65.57	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]	6.4	TTH/AAQM/09	20.00

- Notes:
1. The laboratory is not responsible for the accuracy of the results if the sample is not properly preserved, stored, or handled.
 2. The laboratory is not responsible for the accuracy of the results if the sample is not properly labeled or if the sample is not properly identified.
 3. The laboratory is not responsible for the accuracy of the results if the sample is not properly sealed or if the sample is not properly stored.
 4. The laboratory is not responsible for the accuracy of the results if the sample is not properly handled or if the sample is not properly stored.

Rakesh Sharma
Senior Analyst

Rajesh Maneshwari
(Report No: 254100001095)



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TEST REPORT

Report No./LIR No.	40001095	Date	19-06-2025
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	12-06-2025 04:37 to 14-06-2025 04:37
Point of Collection	Untegaal Village-2013106774, 7410677467	Date of Receipt	15-06-2025
Date of Test/Analysis	16-06-2025 to 19-06-2025	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	Fitted tested

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

- The results are only for sample to the test as per the test method. They are not to be used for any other purpose.
- This report is not to be used as evidence of compliance or non-compliance with any regulatory requirement. It may also not be used as a basis for any legal proceedings.
- The samples are to be destroyed after the report is generated. The sample is not to be kept for any purpose.

PURAN MAH YOGI
Senior Analyst

Rajesh Maheshwari
Authorised Signatory
(Report No. 40001095)



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TEST REPORT

Report No. ULR No.	25400001097	Date	19-08-2025
Issued To	M. S. Hindustan Zee Limited, Kanti Mines Village, Kanti, District Amrit, Rajasthan	Type of Unit	Mines
Type of sample Discipline	Ambient Air (Part 1), Monitoring (Stationary)	Date of Sample Collection Monitoring	15-08-2025 05:47 to 14-08-2025 05:47
Point of Collection	Kanti Village (26°144' N, 74°41' E)	Date of Receipt	15-08-2025
Date of Test Analysis	15-08-2025 to 18-08-2025	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 < 2.0	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	230	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]	13.27	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL < 2.0	IS 5182 (Part-9) : 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	128.33	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	26.76	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 (PM10) [microgram/m3]	55.41	IS 5182 (Part 23) : 2008 RA 2017	100.00
10	Arsenic [ng/m3]	BDL < 2.00	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	7.1	TTH/AAQM/09	20.00

Notes:

1. The results are given in the units as specified in the respective standards and are not to be compared with the limits specified in the standards.
2. The results are given in the units as specified in the respective standards and are not to be compared with the limits specified in the standards.
3. The results are given in the units as specified in the respective standards and are not to be compared with the limits specified in the standards.

Senior Analyst

Rajesh Babushwar
Authorized Signatory
(Report No: 25400001097)



11/15/2025 11:00 AM

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TEST REPORT

Report No./ULR No	400001097	Date	16-06-2025
Issued To	M/S Hindustan Zinc Limited, Kaveri Mines, Village Kaveri, District Ajmer (Rajasthan)	Type of Unit	Other
Type of sample Discipline	Ambient Air Quality Monitoring - Chemical	Date of Sample Collection Monitoring	13-06-2025 05:47 to 14-06-2025 05:47
Point of Collection	Kaveri village [26°31'44.2"N 74°47'18"E]	Date of Receipt	16-06-2025
Date of Test Analysis	16-06-2025 to 19-06-2025	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	For the 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 14) 2014 RA 2017	5.00
13	Benzo-alfa- Pyrene [ng/m3]	BDL <1.0,	CPCB Guidelines	1.00

Notes

1. This report is valid only for the tested sample(s) and is not valid for any other sample(s).
2. This report is valid only for the tested sample(s) and is not valid for any other sample(s).
3. This report is valid only for the tested sample(s) and is not valid for any other sample(s).
4. This report is valid only for the tested sample(s) and is not valid for any other sample(s).

Signature
/s/ **Prakash Sharma**
Senior Analyst

Signature
/s/ **Prakash Sharma**
Authorized Signatory
Report No. 400001097



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TEST REPORT

Report No./LIR No.	25400001254	Date	01-07-2025
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	25-06-2025 14:18 to 26-06-2025 14:18
Point of Collection	Near Sub Station	Date of Receipt	28-06-2025
Date of Test/Analysis	25-06-2025 to 01-07-2025	Sampling Plan	IS 5182:2000(Part 14)RA 2014
Quantity of Sample	-	Sample Collected By	Krushna Murari
Unit's representative	Mr. Prakash Sharma	Condition of Sample	Fitted testing

RESULTS

S No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard 2009
1	Ammonia [microgram/m ³]	BDL(< 20)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m ³]	260	TTH/AAQM/08	4000
3	Lead [microgram/m ³]	0.15	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO ₂ [microgram/m ³]	13.3	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m ³]	BDL(< 20)	IS 5182 (Part-9) : 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m ³]	106.94	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM _{2.5}) [microgram/m ³]	26.65	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m ³]	6.65	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM ₁₀) [microgram/m ³]	56.32	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m ³]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m ³]	3	TTH/AAQM/09	20.00

Notes

- # The sample has been analysed for the parameters as specified in the test report. If any other parameters are required, they should be specified in the test report.
- # The sample has been analysed for the parameters as specified in the test report. If any other parameters are required, they should be specified in the test report.
- # The sample has been analysed for the parameters as specified in the test report. If any other parameters are required, they should be specified in the test report.

Puran Nigam
Analyst

Rajesh Nigam
Authorized Signatory

(Report No: 25400001254)



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TEST REPORT

Report No./ULR No. :	400001254	Date :	01-07-2025
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	25-06-2025 14:18 to 26-06-2025 14:18
Point of Collection	Near Sub Station	Date of Receipt	25-06-2025
Date of Test/Analysis	28-06-2025 to 01-07-2025	Sampling Plan	IS 5182:2000, Part 14:RA 2014
Quantity of Sample	-	Sample Collected By :	Kashra Murari
Unit's representative	M. 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 [microgramm3]	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 :-

- The results listed refer only to the test of sample(s) & parameters as specified here of products or entities identified on label.
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- The samples will be retested after 10 days from the date of test if the sample is found to be non-compliant.

Puran Mal Modi

Senior Analyst

Prakash Sharma

Authorized Signatory

(Report No. 400001254)



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TEST REPORT

Report No./JLR No.	25400001255	Date	01-07-2025
Issued To	M S Hindusthan Zinc Limited, Kaya Mines Village Kaya, District Amer, (Rajasthan)	Type of Unit	Mines
Type of sample - Discipline	Ambient Air Quality Monitoring - Chemical	Date of Sample Collection/Monitoring	25-06-2025 14:20 to 26-06-2025 14:20
Point of Collection	Near CRF	Date of Receipt	28-06-2025
Date of Test/Analysis	25-06-2025 to 01-07-2025	Sampling Plan	IS 5182:2000(Part 14)RA 2014
Quantity of Sample	-	Sample Collected By	Krishna, 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 ³]	BDL (<2.0)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m ³]	280	TTH/AAQM/08	4000
3	Lead [microgram/m ³]	0.16	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO ₂ [microgram/m ³]	14.78	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m ³]	BDL (<2.0)	IS 5182 (Part-9) : 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m ³]	126.34	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM _{2.5}) [microgram/m ³]	28.72	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m ³]	6.9	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM ₁₀) [microgram-m ³]	61.68	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m ³]	BDL (<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m ³]	4.7	TTH/AAQM/09	20.00

Notes

1. The report is valid only for the purpose for which it is issued. It is not valid for any other purpose.
2. This report is not valid if the test is not performed in accordance with the test method specified in the report.
3. The samples will be valid only if they are received within the specified time and in the specified condition.

Puran Mehta
Senior Analyst

Rajesh Kumar
Authorized Signatory

(Report No: 25400001255)



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TEST REPORT

Report No./ULR No	400001255	Date	01-07-2025
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	25-06-2025 14:20 to 26-06-2025 14:20
Point of Collection	Near CRF	Date of Receipt	24-06-2025
Date of Test/Analysis	26-06-2025 to 01-07-2025	Sampling Plan	IS 5182-2:2017 Part 14:RA 2017
Quantity of Sample	-	Sample Collected By	Krishna Maran
Unit's representative	Mr. Prakash Sharma	Condition of Sample	Ft 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) 2017 RA 2017	5.00
13	Benzo-alfa- Pyrene [ng/m3]	BDL(<1.0)	CPCB Guidelines	1.00

Notes

- The results listed here are for the tested sample only. A disclaimer is provided in the report.
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- The samples will be destroyed within 10 days from the date of receipt of report unless the user provides a written request for retention.

PURVI KUMAR
Senior Analyst

Rajesh Kumar
Authorized Signatory
(Report No. 400001255)



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TEST REPORT

Report No./ULR No.	2540001256	Date	01-07-2025
Issued To	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajer (Rajasthan)	Type of Unit	Mines
Type of sample Discipline	Ambient Air Quality Monitoring - Chemical	Date of Sample Collection Monitor	25-06-2025 14:21 to 26-06-2025 14:21
Point of Collection	Near ANFO Station	Date of Receipt	26-06-2025
Date of Test/Analysis	26-06-2025 to 01-07-2025	Sampling Plan	IS 5182 Part 14:RA 2014
Quantity of Sample	-	Sample Collected By	Krushna Muran
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	Amonia [microgram/m3]	BDL(<2.0)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	270	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]	14.23	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(<2.0)	IS 5182 (Part-9) : 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	113.89	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	24.89	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.77	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	65.57	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]	6.3	TTH AAQM:09	20.00

Notes:

- The test results are valid for the period specified in the report and are not to be used for any other purpose.
- The laboratory is not responsible for the accuracy of the data provided by the client or for the use of the data for any purpose other than that for which it was intended.
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Senior Analyst

Authorized Signatory
(Report No. 2540001256)



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TEST REPORT

Report No./ULR No	400001256	Date	11-07-2025
Issued To	M.S. Hindusthan Zinc Limited (Kayad Mines), Village Kayad, District Amer (Rajasthan)	Type of Unit	Mines
Type of sample Discipline	Ambient Air Quality Monitoring - Chemicals	Date of Sample Collection Monitoring	25-06-2025 14:27 to 29-06-2025 14:27
Point of Collection	Near ANFO Station	Date of Receipt	28-06-2025
Date of Test/Analysis	28-06-2025 to 01-07-2025	Sampling Plan	IS 5182-2 (Part 14)/RA 2014
Quantity of Sample	-	Sample Collected By	Krishna Murari
Unit's representative	Mr. Prakash Sharma	Condition of Sample	Ft. for testing

RESULTS

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

Notes :

- # The results are referred to the tested sample's characteristics. Engagement in product's specific information is required.
- # This report is not to be reproduced wholly or in part and can not be used as evidence in the court of law and it is not to be used in any advertising material without our special permission in writing.
- # The samples will be destroyed after 15 days from the date of issue of the report unless otherwise specified.

Senior Analyst

Authorized Signatory
(Report No. 400001256)



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TEST REPORT

Report No./ULR No	25400001257	Date	01-07-2025
Issued To	M/S Hindustan Zinc Limited (Kayad Mines) Village Kayad, District Amer (Rajasthan)	Type of Unit	Mines
Type of sample Discipline	Ambient Air Quality Monitoring - Chemical	Date of Sample Collection/Monitoring	26-06-2025 14:22 to 27-06-2025 14:22
Point of Collection	Lohagol Village (26°51'35.7"N 74°56'31.9"E)	Date of Receipt	28-06-2025
Date of Test/Analysis	28-06-2025 to 01-07-2025	Sampling Plan	IS 5182 2000 (Part 14) RA 2014
Quantity of Sample	-	Sample Collected By	Krishna Murari
Unit's representative	Mr. Prakash Sharma	Condition of Sample	Fat 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)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	220	TTH/AAQM/08	4000
3	Lead [microgram/m3]	Less than 0.1	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	13.76	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) : 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	82.37	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	25.85	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]	41.63	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nicke [ng/m3]	2.6	TTH/AAQM/09	20.00

Note:

- The results are only valid for the test conducted in accordance with the requirements of protocols mentioned in the report.
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- The analysis was performed in strict accordance with the standard methods of analysis as given in the relevant standards.

Puran Kishor Sharma
Senior Analyst

Authorized Signatory:
(Report No. 25400001257)



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TEST REPORT

Report No./ULR No. :	400001257	Date	01-07-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Amer, Rajasthan.	Type of Unit	Mines
Type of sample / Discipline	Ambient Air Quality Monitoring - Chemical	Date of Sample Collection Monitoring	28-06-2025 14:22 to 27-06-2025 14:22
Point of Collection	Lohaqaal Village (26°31'08.7"N 74°39'30"E)	Date of Receipt	28-06-2025
Date of Test/Analysis	26-06-2025 to 01-07-2025	Sampling Plan	IS 5182 2000(Part 14)RA 2014
Quantity of Sample	-	Sample Collected By	Krushna Muran
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 :-

- # The results are intended to be used as a guide only. They are not to be used for legal or other purposes.
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- # The sample will be destroyed after 15 days from the date of receipt. The report will be destroyed after 30 days.

Puran Prakash
Senior Analyst

Dr. J. K. Sharma
Authorized Signatory
(Report No. 400001257)



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TEST REPORT

Report No./DLR No.	254/0001256	Date	01-07-2025
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	28-06-2025 14:22 to 27-06-2025 14:22
Point of Collection	Gadwana Village [26°31'44.4"N / 74°43'26.1"E]	Date of Receipt	28-06-2025
Date of Test/Analysis	28-06-2025 to 01-07-2025	Sampling Plan	IS 5182:2000(Part 14)RA 2014
Quantity of Sample	-	Sample Collected By	Krishna Muran
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)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	230	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]	13.77	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) : 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	86.35	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	25.06	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]	50.48	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]	0.7	TTH/AAQM/09	20.00

Notes:

1. The test results are valid only for the test conditions specified in the test report and are not to be used for any other purpose.
2. The test results are valid only for the test conditions specified in the test report and are not to be used for any other purpose.
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Senior Analyst

Authorized Signatory
(Report No. 2540001256)



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TEST REPORT

Report No./ULR No.	400001258	Date	01-07-2025
Issued To	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Amer (Rajasthan).	Type of Unit	Mines
Type of sample - Discipline	Ambient Air Quality Monitoring - Chemical	Date of Sample Collection Monitoring	25-06-2025 14:22 to 27-06-2025 14:22
Point of Collection	Gagwana Village (26°51'44.4"N 74°43'29.7"E)	Date of Receipt	25-06-2025
Date of Test Analysis	26-06-2025 to 01-07-2025	Sampling Plan	IS 5182:2000(Part 14)RA 2014
Quantity of Sample	-	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	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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- The laboratory will be held responsible for any errors or omissions in the test results.

Puran Choudhary
Senior Analyst

Authorized Signatory
(Report No. 400001258)



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TEST REPORT

Report No./ULR No.	25400001259	Date	01-07-2025
Issued To	M/S Hindustan Zinc Limited (Kajadi Mines) Village Kajadi, District Ajmer, Rajasthan.	Type of Unit	Mines
Type of sample Discipline	Ambient Air Quality Monitoring - Chemical	Date of Sample Collection/Monitoring	26-06-2025 14:23 to 27-06-2025 14:23
Point of Collection	Kajadi Village (26°51'44.3"N, 74°41'16.5"E)	Date of Receipt	28-06-2025
Date of Test/Analysis	28-06-2025 to 01-07-2025	Sampling Plan	IS 5182:2000(Part 14)RA 2019
Quantity of Sample	-	Sample Collected By	Krishna 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)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	210	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.16	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)	IS 5182 (Part-9) : 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	91.64	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	20.89	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]	45.64	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]	7.5	TTH/AAQM/09	20.00

Notes:

1. The results are given in the units as specified in the test methods used for the analysis.
2. The results are given in the units as specified in the test methods used for the analysis.
3. The results are given in the units as specified in the test methods used for the analysis.
4. The results are given in the units as specified in the test methods used for the analysis.

Senior Analyst

Authorized Signatory
(Report No. 25400001259)



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TEST REPORT

Report No./ULR No.:	400001259	Date	01-07-2025
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	26-06-2025 14:23 to 27-06-2025 14:23
Point of Collection	Kayad Village [26°31'44.3"N 74°41'16.5"E]	Date of Receipt	28-06-2025
Date of Test/Analysis	26-06-2025 to 01-07-2025	Sampling Plan	IS 5182:2000(Part 14)RA 2014
Quantity of Sample	-	Sample Collected By	Krishna Moran
Unit's representative :	Mr Prakash Sharma	Condition of Sample	Ft 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 :

- The results are referable to the tested sample as per parameters. If Estimation is provided for the then desired is required.
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Senior Analyst (Signature)

Authorized Signatory
(Report No. 400001259)



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TEST REPORT

Report No./L.R. No.	Test Report No. 2	Date	14-11-2025
Issued To	Mr. Prakash Sharma, Executive Engineer, Wardha Kanwar District Office, Rajasthan	Type of Unit	Metro
Type of sample Discipline	Ambient Air Quality Monitoring - Chemical	Date of Sample Collection/Monitoring	07-11-2025 09:50 to 08-11-2025 09:50
Point of Collection	Urban Sub Station	Date of Report	14-11-2025
Date of Test Analysis	14-11-2025 to 16-11-2025	Sampling Plan	IS 5182, 2006 Part 14: RA 2019
Quantity of Sample	-	Sample Collected By	Prakash Yogi
Unit's representative	Mr. Prakash Sharma	Condition of Sample	For Testing

RESULTS

S No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL < 2.0	IS 5182 (Part 25) : 2019	400.00
2	Carbon Monoxide [microgram/m3]	270	TTH/AAQM/08	4000
3	Lead [microgram/m3]	1.15	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.97	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL < 2.0	IS 5182 (Part-9) : 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	108.05	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	28.34	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.22	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	53.47	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]	5.8	TTH/AAQM/09	20.00

1. This report is valid only for the purpose for which it was issued and for the parameters and methods specified therein. It is not valid for any other purpose.

2. The results are based on the samples received and analyzed in the laboratory. The results are not valid if the samples are not representative of the population.

3. The results are based on the samples received and analyzed in the laboratory. The results are not valid if the samples are not representative of the population.

4. The results are based on the samples received and analyzed in the laboratory. The results are not valid if the samples are not representative of the population.

Puran (Signature)
Senior Analyst

Rajesh (Signature)
Senior Analyst



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TEST REPORT

Report No./ULR No. :	403001312	Date :	16-07-2025
Issued To :	M/S Hindustan Zinc Limited, Kalad Mines, village Kayad, District Anjar, Rajasthan	Type of Unit :	Mine
Type of sample Discipline	Ambient Air Quality Monitoring (Type-1)	Date of Sample Collection/ Monitoring :	11-07-2025 to 16-07-2025
Point of Collection :	Near Sub Station	Date of Receipt :	11-07-2025
Date of Test/Analysis	11-07-2025 to 16-07-2025	Sampling Plan	IS 5157:2000(Part 14)RA 2017
Quantity of Sample		Sample Collected By	Prakash Sharma
Unit's representative	M. Prakash Sharma	Consent of Sample	Not required

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgramm/m ³]	BDL (<1)	IS 5182-Part 11, 2017 RA 2017	5.00
13	Benzo-alfa- Pyrene [ng/m ³]	BDL (<1.0)	CPCB Guidelines	1.00

Notes :

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- # The sample is not to be destroyed after 30 days from the date of receipt of sample in the laboratory.

Page

Puran Kumar
Senior Analyst

Dr. Anshu Singh Varma
Authorized Signatory
Date : 16-07-2025



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TEST REPORT

Report No./ULR No.	2546001313	Date	15/07/2025
Issued To	M. S. Hindustan, Zeta Limited (Kavadi Mines), Village Kavadi, District Amer (Rajasthan)	Typical Unit	Min.
Type of sample Discipline	Ambient Air (24 hr. Monitoring) - Ambient	Date of Sample Collection Monitoring	15/07/25 09:52 to 08 15/07/25 09:52
Point of Collection	Near CRF	Date of Receipt	15/07/2025
Date of Test/Analysis	15/07/2025 to 14/08/2025	Sampling Plan	IS 5182 (Part 6): 2006 (RA 2017)
Quantity of Sample		Sample Collected By	Prakash Singh
Unit's representative	Mr. Prakash Sharma	Condition of Sample	For Testing

RESULTS

S No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL	IS 5182 (Part 26): 2006	400.00
2	Carbon Monoxide [microgram/m3]	290	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.14	IS 5182 (Part 22): 2006 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.13	IS 5182 (Part 6): 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	30.12	IS 5182 (Part 9): 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	112.24	IS 5182 (Part 4): 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	27.64	IS 5182 (Part 24): 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.48	IS 5182 (Part 21): 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	55.15	IS 5182 (Part 23): 1999 RA 2017	100.00
10	Arsenic [ng/m3]	BDL	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	2.5	TTH/AAQM/09	20.00

Signature
Senior Analyst

Signature
Authorized Signatory

Report No.: 2546001313



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E mail : marketing@teamtesthouse.com

TEST REPORT

Report No./ULR No.	401001313	Date	16/07/2025
Issued To	M. S. Hindusthan Zinc Limited, Rajgarh Mines, Village Kavad, District Ajmer, Rajasthan	Type of Unit	Mineral
Type of sample Discipline	Ambient Air Quality Monitoring - Semi-quant	Date of sample Collection Month	15/07/2025 to 15/08/2025
Point of Collection	Near GRI	Date of Receipt	16/07/2025
Date of Test/Analysis	11/07/2025 to 16/07/2025	Sampling Plan	IS 5182, Part 14:RA 2017
Quantity of Sample		Sample Collected By	Prakash Singh
Unit's representative	Mr. Prakash Sharma	Composition of Sample	For A. Testing

RESULTS

S No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene (microgram/m3)	BDL (<1)	IS 5182, Part 14:RA 2017	5.00
13	Benzo-alfa- Pyrene (ng/m3)	BDL (<1.0)	CPCB Guidelines	1.00

Note:

- The results are based on the test results and are not to be used for any legal or regulatory purpose.
- This report is valid for the purpose stated only, and is not to be used for any other purpose, including advertising or promotional purposes.
- The samples were collected after 15 days of the test results and are not to be used for any other purpose.

16/07/2025
Senior Analyst
CCG

16/07/2025
Asst. Chief S. Singh
Report No. : 401001313



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TEST REPORT

Report No. / LR No.	TS49/001314	Date	14-07-2025
Issued To	M/S. Jindal Zircon Limited (Kavadi Mines), Chugai Kavadi, District Aheri (Rajasthan)	Type of test	Mon. test
Type of sample Discipline	Ambient Air (Dusty Mining area) (OH&S)	Date of Sample Collection/ Monitor ing	14-07-2025 09:55 to 09:55
Point of Collection	Local ANFO Storage	Date of Receipt	14-07-2025
Date of Test Analysis	14-07-2025 to 16-07-2025	Sampling Plan	IS 5182/2000 Part 14 IRA 2017
Quantity of Sample		Sample Collected By	Prakash Singh
Unit's representative	Mr. Prakash Sharma	Condition of Sample	Air 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]	0.15	IS 5182 (Part 22) : 2014 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.48	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]	103.02	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	28.85	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.52	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM10) [microgram/m3]	54.25	IS 5182 (Part 23) 2009 RA 2017	100.00
10	Arsenic [ng/m3]	BDL < 2.0	TTH/AAQM-11	6.00
11	Nickel [ng/m3]	4.0	TTH/AAQM-09	20.00

1. This report is valid only for the purpose for which it was issued. It is not valid for any other purpose.
2. The report is valid only for the purpose for which it was issued. It is not valid for any other purpose.
3. The report is valid only for the purpose for which it was issued. It is not valid for any other purpose.

Signature
Senior Analyst

Signature
Authorized Signatory

Report No. : TS49/001314



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TEST REPORT

Report No./ULR No.	400081314	Date	14-07-2025
Issued To	M.S Hindusthan Zinc Limited, Kayad Mines, Village Kayad, District Amber (Rajasthan)	Type of Unit	Mines
Type of sample/ Discipline	Ambient Air Quality Monitoring (TSP)	Date of Sample Collection/Monitoring	14-07-2025 to 16-07-2025
Point of Collection	Near ANFO Station	Date of Receipt	14-07-2025
Date of Test Analysis	14-07-2025 to 16-07-2025	Sampling Plan	IS 5182:2003/Part 14, RA 2014
Quantity of Sample		Sample Collected By	Environ wdg
Unit's representative	Mr. Prakash Sharma	Signature of Sample	Environ wdg

RESULTS

S No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard: 2009
12	Benzene (microgram/m3)	BDL<1.0	IS 5182, Part 14, RA 2014	5.00
13	Benzo-alfa- Pyrene (ng/m3)	BDL<1.0	CPCB Guidelines	1.00

Notes:

- The results are valid only for the sample analyzed.
- The report is not to be used as evidence of compliance or non-compliance with the regulatory requirements.
- The samples should be preserved after the day of collection.

P. K. Sharma
Senior Analyst

Dr. P. K. Sharma
Authorized Signatory
Manager, Quality Control

TEAM TEST ANSWERS

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



1324

1997-1998; 2001-2002

1. $\frac{1}{2} \leq \frac{1}{3} \leq \frac{1}{4} \leq \frac{1}{5} \leq \frac{1}{6}$

ISO 45001:2018 (2018).

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TEST REPORT

Report No./UIR No.	254-6031315	Date	15-07-2025
Issued To	M/S Hindustan Zinc Limited, Kavad Mines Village Kavad, District Agner (Rajasthan)	Type of Unit	Major
Type of sample Discipline	Environment Quality Monitoring (Groundwater)	Date of Sample Collection/ Monitoring	15-07-2025, 09:57 to 17-07-2025, 09:57
Point of Collection	Guhagaal Village (26°33'N, 74°38'30"E)	Date of Receipt	15-07-2025
Date of Test/Analysis	11-07-2025 to 16-07-2025	Sampling Plan	IS 5132:2006 Part 14:RA 2014
Quantity of Sample		Sample Collected by	Prakash Jogi
Unit's representative	Mr. Prakash Sharma	Condition of Sample	Fit for testing

RESULTS

RESULTS				
S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL (<2.0)	IS 5182 (Part 25) : 2004	400.00
2	Carbon Monoxide [microgram/m3]	230	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]	13.27	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL (<2.0)	IS 5182 (Part-9) : 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	93.14	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	24.89	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]	51.36	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]	6.1	TTH/AAQM/09	20.00

↑ *ibid.*

Figure 1. The effect of the concentration of the H_2O_2 solution on the amount of the released H_2O from the H_2O_2 -loaded hydrogel. The amount of the released H_2O was measured by the weight difference of the hydrogel before and after the release. The concentration of the H_2O_2 solution was 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, and 1.0 wt. %.

[illegible]

Pureza 100%
Sempiternidade

Rules: Axiomatic

Report No. 25400001-15



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TEST REPORT

Report No./ULR No.	403001315	Date	11/07/2025
Issued To	M.S. Hindusthan Zinc Limited (Kayad Mines)- Village Kayad, District Amer (Rajasthan)	Type of Unit	Minor
Type of sample Discipline	Ambient Air Quality Monitoring (Chemical)	Date of Sample Collection Monitoring	11/07/2025 09:57 to 07:47 hrs 2025
Point of Collection	Kayad Village (20° 15' 56" N, 75° 56' 10" E)	Date of Receipt	11/07/2025
Date of Test Analysis	11/07-2025 to 16/07-2025	Sampling Plan	IS 5182 (Part 11): 2012 (RA 2017)
Quantity of Sample	01	Sample Collected By	Prakash yagi
Unit's representative	Mr. Prakash Sharma	Condition of Sample	Fresh testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard 2009
12	Benzene [microgram/m3]	BDL (<1)	IS 5182 (Part 11): 2012 (RA 2017)	5.00
13	Benzo-alfa- Pyrene [ng/m3]	BDL (<1.0)	CPCB Guidelines	1.00

Notes:-

- The report is valid only for the test sample. Any other use of the report is at the user's own risk.
- This report must be reviewed when the report and sample are submitted in the court of law or in any other legal proceedings.
- The samples must be preserved after collection in the laboratory.

Purandhar K. Yagi
Senior Analyst (QA)

Purandhar K. Yagi
Authorized Signatory
(Report No. 403001315)



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TEST REPORT

Report No./JR No.	25400001316	Date	14-07-2025
Issued To	M. S. Hindusthan Zinc Limited, Kawa, Mans, Village Kawa, District Jaipur, Rajasthan	Type of Unit	Minor
Type of sample/ Discipline	Environment Air Quality Monitoring - Routine	Date of Sample Collection/Monitoring	14-07-2025 09:58 to 15-07-2025 09:58
Point of Collection	Bagwana Village (24°31'44.4"N, 74°13'00"E)	Date of Receipt	14-07-2025
Date of Test Analysis	14-07-2025 to 16-07-2025	Sampling Plan	IS 5182:2006(Part 14)RA 2017
Quantity of Sample	-	Sample Collected By	Prakash Jogi
Unit's representative	Mr. Prakash Sharma	Condition of Sample	Fully meeting

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL (<2)	IS 5182 (Part 25) : 2015	400.00
2	Carbon Monoxide [microgram/m3]	240	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]	13.11	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL (<20)	IS 5182 (Part-9) : 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	81.18	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM10) [microgram/m3]	25.17	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 (PM10) [microgram/m3]	46.81	IS 5182 (Part 23) : 2004 RA 2017	100.00
10	Arsenic [ng/m3]	BDL (<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	2.5	TTH/AAQM/09	20.00

- Notes:
1. The results are based on the samples collected during the specified period.
 2. The results are based on the samples collected during the specified period.
 3. The results are based on the samples collected during the specified period.
 4. The results are based on the samples collected during the specified period.

Signature
Senior Analyst

Signature
Authorized Signatory (A)
Report No. : 25400001316



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TEST REPORT

Report No./ULR No	400001316	Date	16-07-2025
Issued To	M/S Hindustan Zinc Limited (Kajri Mines) Village Kajri, District Ajmer (Rajasthan)	Type of Unit	Major
Type of sample Discipline	Ambient Air Quality Monitoring (Major)	Date of Sample Collection Monitoring	16-07-2025 to 16-07-2025
Point of Collection	Gajwana Village [26°31'44.4"N 73°45'11"E]	Date of Receipt	16-07-2025
Date of Test/Analysis	16-07-2025 to 16-07-2025	Sampling Plan	IS 5182 (Part 14)RA 2017
Quantity of Sample		Sample Collected By	Prakash Singh
Unit's representative	Mr Prakash Sharma	Condition of Sample	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 14)RA 2017	5.00
13	Benzo-alfa- Pyrene [ng/m3]	BDL(<1.0)	CPCB Guidelines	1.00

Notes

- The report is generated only for the tested samples. It does not represent the quality of the sample which is not tested.
- This report is not to be reproduced without the permission of the laboratory. The report is valid only for the purpose for which it is generated.
- The sample was received after 15 days from the date of collection. The report is valid only for the purpose for which it is generated.

Prakash Singh
Senior Analyst

Prakash Singh
Authorized Signatory
Report No. : 400001316



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TEST REPORT

Report No./UR No.	TS406001317	Date	16-07-2025
Issued To	M/S Hindustan Zinc Limited (Kavay Mines) Village Kavay, District Amber (Rajasthan)	Type of Unit	Mines
Type of Sample Discipline	Ambient Air Quality Monitoring - Chemical	Date of Sample Collection Monitoring	16-07-2025 (9:59 to 07:00) (9:59-9:59)
Point of Collection	Kavay Village (26°3'14" N, 74°41'16" E)	Date of Receipt	11-07-2025
Date of Test Analysis	11-07-2025 to 18-07-2025	Sampling Plan	IS 5182:2000 (Part 14) RA 2017
Quantity of Sample	-	Sample Collected By	Prakash Jais
Unit's representative	Mr. Prakash Sharma	Condition of Sample	Not Storing

RESULTS

S No	Parameters	Observed value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL (2.0)	IS 5182 (Part 25): 2006	400.00
2	Carbon Monoxide [microgram/m3]	220	TTH/AAQM/08	4000
3	Lead [microgram/m3]	1.0	IS 5182 (Part 22): 2006 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	13.95	IS 5182 (Part 6): 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL (2.0)	IS 5182 (Part-9): 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	92.44	IS 5182 (Part 4): 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	21.06	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 (PM10) [microgram/m3]	48.33	IS 5182 (Part 23-23) RA 2017	100.00
10	Arsenic [ng/m3]	BDL (2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	4.2	TTH/AAQM/19	20.00

Signature

For the Laboratory, I hereby certify that the results reported in this report are true and correct to the best of my knowledge and belief, and that the same are in accordance with the requirements of the Indian Standards and the National Ambient Air Quality Standards, 2009.

I, the undersigned, being a duly qualified and experienced person, hereby certify that the results reported in this report are true and correct to the best of my knowledge and belief, and that the same are in accordance with the requirements of the Indian Standards and the National Ambient Air Quality Standards, 2009.

Signature
Santosh Kumar Yadav

Signature
Authorized Signatory
Report No.: TS406001317



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TEST REPORT

Report No./ULR No	400001317	Date	11/07/2025
Issued To	M/S Hindustan Zinc Limited, Kavad Mines Village Kavad, District Ajmer, Rajasthan	Type of Job	Major
Type of sample Discipline	Ambient Air Quality Monitoring - Chemical	Date of Sample Collection/Monitoring	11-07-2025 (09:59 to 07:01-15:09:59)
Point of Collection	Kavad Village (26°3'44.3"N, 74°14'30.4"E)	Date of Receipt	11/07/2025
Date of Test/Analysis	11-07-2025 to 16-07-2025	Sampling Point	IS 182, Part 14, RA 2017
Quantity of Sample :	-	Sample Collected By	Pranav Yogi
Unit's representative	Mr. Prakash Sharma	Signature of Sample	Pranav Yogi

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m3]	BDL (<1)	IS 182, Part 14, RA 2017	5.00
13	Benzo-alfa- Pyrene [ng/m3]	BDL(<1.0)	CPCB Guidelines	1.00

Notes :-

- # The results are representative for the tested sample. Sample collection & Engineering and analytical methods are not implied.
- # This report is valid, when prepared within the stipulated time limit. The validity period may be extended as per the agreement used for advertisement. Results without the expiry date are not valid.
- # The sample should be protected from light, heat, moisture, and other factors which may affect the results.

Puran Mar Yogi
Senior Analyst

Rajesh
Authorized Signatory,
Report No. 400001317



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TEST REPORT

Report No./LR No.	TTH/1453	Date	30.07.2025
Issued To	Mt. Vermaashan, Zim Limited, Kalyan Nagar, Jaipur Road, Testbed Area, (Rajasthan)	Type of Test	Monitor
Type of sample/Description	Ambient Air Quality Monitoring (Ambient)	Date of Sample Collection/Monitoring	21.07.2025 11:22 to 22.07.2025 11:22
Point of Collection	Near Sub Station	Date of Receipt	24.07.2025
Date of Test Analysis	24.07.2025 to 30.07.2025	Sampling Plan	IS 5182 : 2006 (Part 14) RA 2019
Quantity of Sample		Sample Collected by	Prakash Sharma
Client representative	Mt. Prakash Sharma	Condition of Sample	For Monitoring

RESULTS

S No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard - 2009
1	Ammonia [microgram/m3]	BDL (0.00)	IS 5182 (Part 25) : 2006	400.00
2	Carbon Monoxide [microgram/m3]	260	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 (0.00)	IS 5182 (Part-9) : 1999	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	81.86	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter - PM2.5 [microgram/m3]	26.18	IS 5182 (Part 24) : 2006	60.00
8	Sulphur Dioxide [microgram/m3]	6.07	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter - PM10 [microgram/m3]	48.63	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]	0.0	TTH/AAQM/09	25.00

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2. The results of the analysis are based on the samples received and analyzed under the conditions specified in the report. The results are not to be used for any purpose other than the one for which they were issued.

3. The results of the analysis are subject to the limitations of the methods used and the quality of the samples received. The results are not to be used for any purpose other than the one for which they were issued.

4. The results of the analysis are subject to the limitations of the methods used and the quality of the samples received. The results are not to be used for any purpose other than the one for which they were issued.

Signature
Senior Analyst

Signature
Team Test House
30.07.2025
TTH/1453



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TEST REPORT

Report No. ULR No.	100001455	Date	24-07-2025
Issued To	M.S. Hindustan Zinc Limited, Sector 10, Durgam Chak, Kalyan, Dist. of Anwar, Rajasthan	Type of Test	12
Type of sample / Discipline	Ambient Air Quality Monitoring - Laboratory	Date of Sample Collection Monitoring	24-07-2025 to 27-07-2025
Point of Collection	Near Sub Station	Date of Receipt	24-07-2025
Date of Test/Analysis	24-07-2025 to 30-07-2025	Sampling Plan	Part 12, RA 2017
Quantity of Sample		Sample Collected By	Prakash Sharma
Unit's representative	Dr. Prakash Sharma	Signature of Sample	Prakash Sharma

RESULTS

S.No	Parameters	Observed Value	Testing Method	Limits as per National Ambient Air Quality Standard - 2009
12	Benzene [microgram/m ³]	BDL<1.0	IS 5182 (Part 1) - 2017 RA 2017	5.00
13	Benzo-alfa- Pyrene [ng/m ³]	BDL<1.0	CPCB Guidelines	1.00

Note

- The results are valid only for the tested sample as per the test method used and the test conditions.
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Senior Analyst (in)

Author: Dr. Prakash Sharma

Report No.: 100001455



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TEST REPORT

Report No./L.R. No.	Lab No. 1454	Date	21/7/25
Issued To	M.S. Hindusthan Zirconium Pvt. Ltd. (Hindus Zirconium Pvt. Ltd.) Village, Kalyan, District Rajsamand, Rajasthan	Type of Test	Metals
Type of sample / Disposal	Water for Drinking / Domestic Use	Name of Sample	1. 15.1.23.11.15 to 20 2. 15.1.23.11.15 to 20 3. 15.1.23.11.15 to 20
Point of Collection	Point 1 (B)	Date of Receipt	21/7/25
Date of Test Analysis	21/7/25 to 30/07/2025	Sampling Plan	IS 5182:2006(Part 14)RA 2017
Quantity of Sample		Sample Collected By	Lab. Group
Unit's representative	Mr. Prakash Sharma	Condition of Sample	For Testing

RESULTS

S No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m ³]	BDL < 0.1	IS 5182 (Part 25) : 2015	400.00
2	Carbon Monoxide [microgram/m ³]	280	TTH/AAQM/08	4000
3	Lead [microgram/m ³]	1.17	IS 5182 (Part 22) : 2014 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO ₂ [microgram/m ³]	14.71	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m ³]	BDL < 0.1	IS 5182 (Part-9) : 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m ³]	79.07	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM ₁₀) [microgram/m ³]	32.16	IS 5182 (Part 24) : 2013	60.00
8	Sulphur Dioxide [microgram/m ³]	6.41	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM _{2.5}) [microgram/m ³]	11.17	IS 5182 (Part 23) : 2015 RA 2017	100.00
10	Arsenic [ng/m ³]	BDL < 2.0	TTH/AAQM/11	15.00
11	Nickel [ng/m ³]	0.0	TTH/AAQM/09	20.00

1. This report is valid only for the purpose and parameters specified in the report. It is not valid for any other purpose or parameters.

2. The results are based on the samples received and tested as per the protocol specified in the report. The results are not valid if the samples are not received or tested as per the protocol.

3. The results are based on the samples received and tested as per the protocol specified in the report. The results are not valid if the samples are not received or tested as per the protocol.

Senior Analyst

Authorised Signatory
Report No. : TTH/AAQM/08/25



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TEST REPORT

Report No./ULR No.	TR/UR/1454	Date	12/07/2025
Issued To	M/S Hindustan Zinc Limited (Kajadi Mines) Village Kajadi, District Anup, Rajasthan	Type of Unit	Mobile
Type of Sample Discipline	Environment for Quality Measurement	Date of Sample Collection/Measurement	12/07/2025 to 16/07/2025
Point of Collection	Team TDF	Date of Receipt	12/07/2025
Date of Test/Analysis	24-07-2025 to 30-07-2025	Sampling Plan	IS 5182 (Part 14) RA 2017
Quantity of Sample		Sample Collected By	Prakash Singh
Unit's representative	M. Prakash Sharma	Number of Samples	10 (5 for each)

RESULTS

S No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m3]	BDL (<1)	IS 5182 (Part 14) RA 2017	1.0
13	Benzo-alfa- Pyrene [ng/m3]	BDL (<1.0)	CPCB Guidelines	1.00

Notes:

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- The report is valid only for the purpose for which it is issued. It is not valid for any other purpose.
- The report is valid only for the purpose for which it is issued. It is not valid for any other purpose.

Prakash Singh
Senior Analyst

Prakash Singh
Authorized Signatory
Team Test House Pvt. Ltd.



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TEST REPORT

Report No./L/R No.	TTH/0001456	Date	14.07.2025
Issued To	M. S. Industries Zonalated, Bhopal House No. 43, Chhatrapati Rajguru	Type of Test	Major
Type of Sample Discipline	Industrial Area, City, Urban Area	Date of sample Collection Month	24.07.2025 to 11.08.2025 24.07.2025 to 11.08.2025
Point of Collection	Near ANVI Station	Date of Receipt	24.07.2025
Date of Test/Analysis	14.07.2025 to 11.08.2025	Sampling Plan	IS 1582:2000/Part 14/RA 2019
Quantity of Sample		Sample Collected By	Pratik Singh
Units representative	1000 mg/l (approx.)	Frequency of Sample	24.07.2025

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard - 2009
1	Ammonia [microgram/m ³]	BDL < 2.0	IS 5182 (Part 25) : 2017	400.00
2	Carbon Monoxide [microgram/m ³]	270	TTH/AAQM/08	4000
3	Lead [microgram/m ³]	1.14	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO ₂ [microgram/m ³]	13.25	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m ³]	BDL < 2.0	IS 5182 (Part 9) : 1972	100.00
6	Suspended Particulate Matter (SPM) [microgram/m ³]	81.62	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM _{2.5}) [microgram/m ³]	27.01	IS 5182 (Part 24) : 2019	50.00
8	Sulphur Dioxide [microgram/m ³]	6.69	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM ₁₀) [microgram/m ³]	53.01	IS 5182 (Part 23) : 2001 RA 2017	100.00
10	Arsenic [ng/m ³]	BDL < 2.0	TTH/AAQM/11	6.00
11	Nickel [ng/m ³]	2.8	TTH/AAQM/09	20.00

1. This report is valid only for the purpose and parameters mentioned in the report.
2. The results are based on the samples collected and analyzed in the laboratory.
3. The results are subject to the accuracy of the analytical methods used.
4. The results are subject to the quality of the samples received.

Senior Analyst

Head of Laboratory
Report No. TTH/0001456



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TEST REPORT

Report No./ULR No.	400001455	Date	01-12-2017
Issued To	M. S. Hindusthan Zinc Limited, Kuchaman, Village Kaveri, District Alwar, Rajasthan	Type of Test	Major
Type of sample/Discrepance	Ambient Air quality Monitoring Station	Date of Sample Collection/Monitoring	24-11-2017 to 25-11-2017
Point of Collection	Near ANFO Station	Date of Receipt	24-11-2017
Date of Test/Analysis	24-11-2017 to 25-11-2017	Sampling Plan	IS 5182, Part 14, RA 2017
Quantity of Sample	-	Sample Collected By	Prakash Singh
Unit's representative	Mr. Prakash Sharma	Condition of Sample	Fit for testing

RESULTS

S No	Parameters	Observed value	Testing Procedure	Limits as per National Ambient Air Quality Standard 2009
12	Benzene [microgram/m ³]	BDL<1	IS 5182, Part 11, RA 2017	5.00
13	Benzo-alfa- Pyrene [ng/m ³]	BDL<1.0	CPCB Guidelines	1.00

Notes

- * This report is valid only for the purpose stated.
- * This report is not valid for any other purpose.
- * This report is not valid for any other purpose.
- * This report is not valid for any other purpose.

Senior Analyst

Authorized Signatory
Representative of TTH



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TEST REPORT

Report No. / File No.	63722100456	Date	24/07/2025
Issued To	M.E. Industries, Jaisa, Industrial Area, Sitapura, Jaipur, District Awarah, Rajasthan	Type of Job	Air
Type of sample / Discipline	Ambient Air Quality Monitoring - Routine	Date of Sample Collection / Monitoring	21/07/2025 11:43 to 22/07/2025 11:43
Point of Collection	Industrial Village (District Awarah, Jaipur, RJ)	Date of Report	24/07/2025
Date of Test Analysis	24/07/2025 to 31/07/2025	Sampling Plan	IS 5182:2000 Part 14:RA 2019
Quantity of Sample		Sample Collected By	Prithvi Vora
Unit / Representative	M. Prakash Sharma	Condition of Sample	As received

RESULTS

S No.	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard 2009
1	Ammonia [microgram/m3]	BDL < 2.0	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	220	TTH/AAQM/08	4000
3	Lead [microgram/m3]	BDL < 0.01	IS 5182 (Part 22) : 2014 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	13.46	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL < 2.0	IS 5182 (Part 9) : 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	68.63	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter - PM2.5 [microgram/m3]	40	IS 5182 (Part 14) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	Less than 0.5	IS 5182 (Part 2) : 2007 RA 2017	80.00
9	Particulate Matter - PM10 [microgram/m3]	101.77	IS 5182 (Part 23) : 2019 RA 2017	100.00
10	Arsenic [ng/m3]	BDL < 0.1	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	BDL < 0.1	TTH/AAQM/09	20.00

1. This report is valid only for the purpose and conditions specified in the report.

2. The results are based on the samples received and analyzed in the laboratory.

3. The results are subject to the accuracy of the analytical methods used.

4. The results are subject to the quality of the samples received.

5. The results are subject to the quality of the reagents and standards used.

Analyst

Director
 (Report No. : 63722100456)



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TEST REPORT

Report No./ULR No.	400007456	Date	24-07-2025
Issued To	M/S Hindusthan Zinc Limited, Kavant Mines Village Kavant, District Ajmer (Rajasthan)	Type of test	Metals
Type of sample/ Discipline	Ambient Air Quality Monitoring (AQI)	Date of sample Collection/ Monitoring	21-07-2025 11:43 to 22-07-2025 11:43
Point of Collection	Kavant village (2013) S.T. N. 14/19	Date of Receipt	24-07-2025
Date of Test/Analysis	24-07-2025 to 24-07-2025	Sampling Plan	IS 5182:2016 Part 14:RA 2017
Quantity of Sample	-	Sample Collected by	Prakash Singh
Unit's representative	M. Prakash Sharma	Sample for	Reference only

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard-2009
12	Benzene [microgram/m ³]	BDL(<1.0)	IS 5182: Part 14:RA 2017	5.00
13	Benzo-alfa- Pyrene [ng/m ³]	BDL(<1.0)	CPCB Guidelines	1.00

Notes

- The results are given in the table only.
- This report is to be read and interpreted in conjunction with the test report of the laboratory.
- The report is valid only for the purpose for which it is issued.
- The report is valid only for the purpose for which it is issued.

Senior Analyst

Authorized Signatory
Report No. : 400007456



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TEST REPORT

Report No./U.P. No.	115496/1155	Date	11-07-2021
Request To	M.C. Handwala, Government Engineer, Mangalgarh, District Amer, Rajasthan	Type of Unit	Factory
Type of Sample/ Discipline	Air pollution/ Air Quality Monitoring/ Stationary	Date of Sample Collection/ Monitoring	21-07-2021 11:45 to 22-07-2021 11:45
Point of Collection	Ganwana Village, 26°11'44.4"N 74°43'00"E	Date of Receipt	24-07-2021
Date of Test/ Analysis	24-07-2021 to 24-07-2021	Sampling Plan	IS 5182 (Part 14): 2019
Quantity of Sample		Sample Collected By	Prakash Singh
Unit's representative	Mr. Prakash Sharma	Condition of Sample	For Testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL (< 0.1)	IS 5182 (Part 25) : 2019	400.00
2	Carbon Monoxide [microgram/m3]	230	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]	13.98	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL (< 0.1)	IS 5182 (Part-9) : 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	69.01	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	24.48	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 (PM10) [microgram/m3]	37.65	IS 5182 (Part 23) : 2001 RA 2017	100.00
10	Arsenic [ng/m3]	BDL (< 2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	4	TTH/AAQM/06	2.00

NOTE

1. The results of the test are based on the sample received and tested as per the protocol specified in the report. The results are not valid if the sample is not received as per the protocol specified in the report. The results are not valid if the sample is not tested as per the protocol specified in the report. The results are not valid if the sample is not received as per the protocol specified in the report. The results are not valid if the sample is not tested as per the protocol specified in the report.

For SKT
Signature of SKT
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TEST REPORT

Report No. LTR No	400001457	Date	15-07-2025
Issued To	M/S Hindustan Zinc Limited, Khetri Mines, Village Khetri, District Jaipur (Rajasthan)	Type of Test	Water
Type of sample Discipline	Ambient Air Quality Monitoring - Water	Date of Sample Collection/Marking	15-07-2025 (15 July 2025)
Point of Collection	Gajwana Village [26°31'44.4"N 75°44'20.1"E]	Date of Receipt	24-07-2025
Date of Test Analysis	24-07-2025 to 31-07-2025	Sampling Plan	IS 3025 (Part 14) RA-1
Quantity of Sample		Sample Labelled By	Team Test House
Is It representative	Dr. Prakash Sharma	Sampled at Sample	Water Testing

RESULTS

S No	Parameters	Observed Value	Testing Method	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m3]	BDL (<1)	IS 5172 (Part 10) RA-1 RA 2017	10.0
13	Benzo-alfa- Pyrene [ng/m3]	BDL (<1.0)	CPCB Guidelines	1.00

Notes

- The results are preliminary and subject to change upon receipt of the report from the client.
- The report is valid only for the purpose of the test and is not to be used for any other purpose.
- The results are subject to change upon receipt of the report from the client.
- The results are subject to change upon receipt of the report from the client.

Senior Analyst

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TEST REPORT

Report No./JLR No.	54002/1458	Place	Jaipur-302022
Issued To	M/S. Handanagar Zonal Cement Works, Village Kailash, District Amritsar, Punjab	Type of Test	Monitor
Type of sample Discipline	Ambient Air Quality Monitoring (Continuous)	Date of Sample Collection/Monitoring	14-11-2025 11:46 to 22:17 (25-11-25)
Point of Collection	Jaipur Village (SPM) (41°N, 73°E) (4-45)	Date of Receipt	14-11-25
Date of Test Analysis	14-11-25 (8:30 AM to 1:02 PM)	Sampling Plan	IS 5182 (Part 24): 2019 RA 2019
Quantity of Sample	-	Sample Collected By	Pradeep Singh
Unit's representative	M. Bhaskar Sharma	Condition of Sample	Fitted for testing

RESULTS

S No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m ³]	BDL (0.2)	IS 5182 (Part 25): 2018	400.00
2	Carbon Monoxide [microgram/m ³]	210	TTH/AAQM/08	4000
3	Lead [microgram/m ³]	Less than 0.1	IS 5182 (Part 22): 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO ₂ [microgram/m ³]	13.92	IS 5182 (Part 6): 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m ³]	BDL (0.2)	IS 5182 (Part 9): 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m ³]	78.87	IS 5182 (Part 4): 1999 RA 2019	Not Specified
7	Particulate Matter (PM _{2.5}) [microgram/m ³]	41.13	IS 5182 (Part 24): 2019	50.00
8	Sulphur Dioxide [microgram/m ³]	Less than 6.0	IS 5182 (Part 2): 2001 RA 2017	80.00
9	Particulate Matter (PM ₁₀) [microgram/m ³]	41.13	IS 5182 (Part 23): 2009 RA 2017	100.00
10	Arsenic [ng/m ³]	BDL (0.2)	TTH/AAQM/11	6.00
11	Nickel [ng/m ³]	0.1	TTH/AAQM/09	20.00

1. The results are based on the samples collected and analyzed in the laboratory.
2. The results are subject to the accuracy of the analytical methods used.
3. The results are subject to the quality of the samples received.
4. The results are subject to the quality of the reagents and standards used.

Senior Analyst

Authorized Signatory
Date: 14-11-2025



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TEST REPORT

Report No./ULR No	407001458	Date	24-07-2025
Issued To	M/S. Hindustan Zinc Limited (Kavay Mines) Village Kavay District Amber, Rajasthan	Type of test	Trace
Type of sample/Discrepancy	Ambient Air quality Monitoring (Trace)	Date of Sample Collection Month/Day/Year	24-07-2025 to 24-07-2025
Point of Collection	Kavay village (26°31'44.38"N 75°47'17"E)	Date of Receipt	24-07-2025
Date of Test/Analysis	24-07-2025 to 31-07-2025	Sampling Plan	IS 5182:2000(Part 14:RA 2017)
Quantity of Sample	-	Sample Collection Method	Indicator gas
Unit's representative	Mr. Prakash Sharma	Collector's Name/Designation	Mr. Prakash Sharma

RESULTS

S No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard-2009
12	Benzene [micro-gram/m ³]	BDL(<1.0)	IS 5182:2000(Part 14:RA 2017)	5.00
13	Benzo-alfa- Pyrene [ng/m ³]	BDL(<1.0)	CPCB Guidelines	1.00

Notes

- 1. The test is performed at the site of the client's facility.
- 2. The test is performed at the site of the client's facility.
- 3. The test is performed at the site of the client's facility.

Senior Analyst

Authorised Signatory
 Report No. 407001458



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TEST REPORT

Report No./ULR No.	25400001528	Date	14-08-2025
Issued To	M. S. Hindustan Zinc Limited (Kayad Mines) Village Kayad, District Amer (Rajasthan)	Type of Unit	Mines
Type of sample Discipline	Ambient Air Quality Monitoring - Chemical	Date of Sample Collection/Monitoring	05-08-2025 15:31 to 06-08-2025 15:31
Point of Collection	Near Sub Station	Date of Receipt	07-08-2025
Date of Test/Analysis	07-08-2025 to 14-08-2025	Sampling Plan	IS 5182:2000(Part 14)RA 2019
Quantity of Sample	-	Sample Collected By	Sitaranjangid
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)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	270	TTH/AAQM/08	4000
3	Lead [microgram/m3]	Less than 0.1	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.55	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) : 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	114.63	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	29.06	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.52	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	65.56	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	TTH/AAQM/09	20.00

Notes:

- The results are based on the data received from the client and are not to be used for any other purpose.
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Senior Analyst

Authorised Signatory
(Report No. 25400001528)



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TEST REPORT

Report No./ULR No	400001528	Date	14-08-2025
Issued To	M/S Hindustan Zinc Limited (Kajadi Mines) Village Kajadi, District Ajmer (Rajasthan)	Type of Unit	Mines
Type of sample Discipline	Ambient Air Quality Monitoring (Chemical)	Date of Sample Collection Monitoring	05-08-2025 15:31 to 06-08-2025 15:31
Point of Collection	Near Sub Station	Date of Receipt	07-08-2025
Date of Test/Analysis	07-08-2025 to 14-08-2025	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) 2017 RA 2017	5.00
13	Benzo-alfa- Pyrene [ng/m3]	BDL(<1.0)	CPCB Guidelines	1.00

Notes :-

- The results are restricted to the tested samples & do not constitute an assessment of products or the facility from which sampled.
- This report is not to be reproduced, wholly or in part and cannot be used or referred in the court of law and shall not be used in any advertisements without our special permission in writing.
- The samples will be destroyed after 15 days from the date of test. If you require longer retention, please inform us.

Senior Analyst

Authorized Signatory
(Report No. 400001528)



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TEST REPORT

Report No./L.R. No.	2540G031529	Date	14-08-2025
Issued To	At a Industrial Zone, District Jaipur, Rajasthan Village Kharan, District Jaipur, Rajasthan	Type of Unit	Mines
Type of sample / Discipline	Ambient Air Quality Monitoring - Chemical	Date of Sample Collection Monitoring	05-08-2025 15:44 to 06-08-2025 15:43
Point of Collection	Near CRF	Date of Receipt	07-08-2025
Date of Test Analysis	07-08-2025 to 14-08-2025	Sampling Plan	IS 5182 (Part 14) RA 2014
Quantity of Sample	-	Sample Collected By	Shamshajid
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	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	290	TTH/AAQM/08	4000
3	Lead [microgram/m3]	Less than 0.1	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.34	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL < 20	IS 5182 (Part-9) : 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	104.84	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	28.4	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.41	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	60.48	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]	15.7	TTH/AAQM/09	20.00

1. This report is valid only for the purpose for which it has been issued and is not to be used for any other purpose.
2. This report is valid only for the purpose for which it has been issued and is not to be used for any other purpose.
3. This report is valid only for the purpose for which it has been issued and is not to be used for any other purpose.

Senior Analyst

Authorised Signatory
(Report No. 2540G031529)



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TEST REPORT

Report No./ULR No.	480001629	Date	14-08-2025
Issued To	M.S. Hindusthan Zinc Limited, Kavant Mines, Village Kavant, District Amer (Rajasthan)	Type of Test	Monitor
Type of Sample & Discipline	Ambient Air Quality Monitoring - Station A	Date of Sample Collection-Monitoring	From 25-05-2025 to 06-06-2025, 15:43
Point of Collection	Near DRF	Date of Receipt	17-06-2025
Date of Test Analysis	07-08-2025 to 14-08-2025	Sampling Plan	IS 5162:2000, Part 14-RA 2017
Quantity of Sample	-	Sample Collected By	Sitaram Jangid
Unit's representative	Mr. Prakash Sharma	Condition of Sample	For Testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene (microgram/m ³)	BDL (<1.0)	IS 5162, Part 14, 2017 RA 2017	5.00
13	Benzo-alfa- Pyrene (ng/m ³)	BDL (<1.0)	CPCB Guidelines	1.00

Notes :-

- The results are valid only for the tested sample and parameters. The results are not valid for any other sample or parameter.
- The test results are to be taken into account while making any decision on the basis of the test results. The test results are not to be used for any other purpose.
- The test results are to be taken into account while making any decision on the basis of the test results. The test results are not to be used for any other purpose.

Senior Analyst

Authorised Signatory
 Report No. 480001629



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TEST REPORT

Report No./CLR No.	254-0001530	Date	14-08-2025
Issued To	M/S Hindustan Zinc Limited (Kavay Mines) (Sagar Kaal), District Ajmer (Rajasthan)	Type of Unit	Atmos
Type of sample Disruption	Ambient Air Quality Monitoring (Clear)	Date of Sample Collection Monitoring	13-08-2025 15:51 to 06-08-2025 15:51
Point of Collection	Near ANFO Station	Date of Receipt	13-08-2025
Date of Test/Analysis	07-08-2025 to 14-08-2025	Sampling Plan	IS 5182:2000(Part 14)RA 2014
Quantity of Sample	-	Sample Collected By	Sitaran Jangid
Unit's representative	Mr. Prakash Sharma	Condition of Sample	Fitted 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]	310	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]	14.56	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL < 20.0	IS 5182 (Part-9) : 1994	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	123.09	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	29.87	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.23	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	78.61	IS 5182 (Part 23):2000 RA 2017	100.00
10	Arsenic [ng/m3]	BDL < 2.0	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	2.7	TTH/AAQM/09	20.00

1. This report is valid only for the sample(s) analyzed and the test method(s) used. It does not represent a guarantee of the accuracy of the results.
2. The results are based on the sample(s) analyzed and the test method(s) used. They are not a guarantee of the accuracy of the results.
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4. The results are based on the sample(s) analyzed and the test method(s) used. They are not a guarantee of the accuracy of the results.

Prakash Sharma
Senior Analyst/CLT

Prakash Sharma
Authorized Signatory

Report No. 254-0001530

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TEST REPORT

Report No./ULR No.	400001530	Date	11-08-2025
Issued To	M/S Hindusthan Zinc Limited, Kayam Chausa Village, Kayam, District Amritsar, Rajasthan	Type of Unit	Minors
Type of sample Discipline	Ambient Air Quality Monitoring - Compliance	Date of Sample Collection/Monitoring	08-08-2025 15:51 to 08-08-2025 16:51
Point of Collection	Near ANFO Station	Date of Receipt	08-08-2025
Date of Test/Analysis	07-08-2025 to 14-08-2025	Sampling Plan	IS 515: 2006 (Part 14) RA 2012
Quantity of Sample		Sample Collected By	Sitaraj Pandey
Unit's representative	Mr. Prakash Sharma	Condition of Sample	Fit for testing

RESULTS

RESULTS				
S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard- 2009
12	Benzene [microgram.m3]	BDL(≤ 2)	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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Puran 1000
Senior Analyst

Author's Sign-off

Report No. 402(W-153)



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TEST REPORT

Report No. (JIR No)	25460/01531	Date	14/08/2025
Issued To	M/S Hindustan Zinc Limited (Kajri Mines) (Jangpura Road, District Amer, Rajasthan)	Type of Unit	Mines
Type of sample Discipline	Ambient Air Quality Monitoring (Stacks)	Date of Sample Collection Monitoring	04/08/2025 to 05/08/2025
Point of Collection	Lunari Village (26°31'08.7"N 74°39'30.5"E)	Date of Receipt	07/08/2025
Date of Test Analysis	07/08/2025 to 14/08/2025	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	Fair for testing

RESULTS

S No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m ³]	BDL (<20)	IS 5182 (Part 25) : 2016	400.00
2	Carbon Monoxide [microgram/m ³]	210	TTH/AAQM/08	4000
3	Lead [microgram/m ³]	0.10	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO ₂ [microgram/m ³]	13.16	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m ³]	BDL (<20)	IS 5182 (Part-9) 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m ³]	93.02	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM _{2.5}) [microgram/m ³]	20.34	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m ³]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM ₁₀) [microgram/m ³]	47.11	IS 5182 (Part 23) : 2006 RA 2017	100.00
10	Arsenic [ng/m ³]	BDL (<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m ³]	2.5	TTH/AAQM/09	20.00

1. This report is prepared by the Laboratory on the basis of the data received from the client. The Laboratory is not responsible for the accuracy of the data received from the client.

2. The Laboratory is not responsible for the accuracy of the data received from the client. The Laboratory is not responsible for the accuracy of the data received from the client.

3. The Laboratory is not responsible for the accuracy of the data received from the client. The Laboratory is not responsible for the accuracy of the data received from the client.

Senior Analyst

Authorized Signatory

(Report No. 25460/01531)



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TEST REPORT

Report No./ULR No.	400001531	Date	14-08-2025
Issued To	M/S Hindustan Zinc Limited (Kayad Mines) Village Kayad, District Armer, Rajasthan	Type of Unit	Minor
Type of sample / Discipline	Ambient Air Quality Monitoring - Periodic	Date of Sample Collection / Monitoring	14-08-2025 (14:57 to 15:58) 2025
Point of Collection	Lunaul Village (26°31'05.7"N 74°39'53.4"E)	Date of Receipt	17-08-2025
Date of Test/Analysis	07-08-2025 to 14-08-2025	Sampling Plan	IS 5182:2009(Part 14)RA 2017
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 ³]	BDL(<2)	IS 5182 (Part 1) 2012 RA 2017	5.00
13	Benzo-alfa- Pyrene [ng/m ³]	BDL(<1.0)	CPCB Guidelines	1.00

Note

- # This report is valid only for the test sample(s) for which it is prepared. It is not valid for any other sample(s).
- # This report is not a representation of the quality of the sample(s) or the quality of the test results. It is only a statement of the results of the test.
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Senior Analyst

Authorized Signatory

Report No. 400001531



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TEST REPORT

Report No. / TR No.	TTH/0015/21	Date	24.06.2025
Issued To	M/S Hindustan Zinc Limited, Khetri Mines, (Zinc) Khetri District Jhansi (Rajasthan)	Type of Unit	Minor
Type of sample / Discipline	Environment Air quality Monitoring - Chemical	Date of Sample Collection/Monitoring	14.08-2025 16:01 to 05-08-2025 16:01
Point of Collection	Dugwani Village (26°21'44"N, 75°02'11"E)	Date of Receipt	01.08-2025
Date of Test Analysis	01.08-2025 to 14-08-2025	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	Fitted testing

RESULTS

S.No	Parameters	Observed value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL (< 2.0)	IS 5182 (Part 25) : 2014	400.00
2	Carbon Monoxide [microgram/m3]	220	TTH/AAQM/08	4000
3	Lead [microgram/m3]	Less than 0.1	IS 5182 (Part 22) : 2014 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	13.56	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL (< 20)	IS 5182 (Part-9) : 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	101.07	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM10) [microgram/m3]	21.19	IS 5182 (Part 24) : 2014	60.00
8	Sulphur Dioxide [microgram/m3]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM10) [microgram/m3]	50.47	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]	5.4	TTH/AAQM/09	20.00

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3. The laboratory is not responsible for the accuracy of the data provided by the client.

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Puran Vimal
Senior Analyst

Dr. Shyam
Authorized Signatory

(Report No. 25400001532)



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TEST REPORT

Report No./ULR No.	400001532	Date	14-08-2025
Issued To	M.S. Hindustan Zinc Limited (Kayad Mines - Village Kayad - District Ajmer (Rajasthan))	Type of Unit	Minor
Type of sample Discipline	Ambient Air Quality Monitoring - Chemical	Date of Sample Collection/ Monitoring	14-08-2025 (6:00 to 06:00 PM) (6:00 to 06:00 PM)
Point of Collection	Gajwana Village (26°31'44.4"N, 74°43'11"E)	Date of Receipt	14-08-2025
Date of Test/Analysis	07-08-2025 to 14-08-2025	Sampling Plan	IS 5182:2009(Part 14:RA 2014)
Quantity of Sample		Sample Collected By	Shantanu Singh
Unit's representative	Mr. Prakash Sharma	Condition of Sample	Fairly Good

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard 2009
12	Benzene [microgram/m ³]	BDL (<2.0)	IS 5182 (Part 14: 2014) RA 2017	5.00
13	Benzo-alfa- Pyrene [ng/m ³]	BDL (<1.0)	CPCB Guidelines	1.00

Notes

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Puran Mehta
Senior Analyst

Dr. Anil Kumar
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TEST REPORT

Report No./JLR No.	2540001533	Date	14-08-2025
Issued To	M/S Hindustan Zinc Limited, Bansi Meena village, Kalyan District, Amer, Rajasthan	Type of Unit	Meena
Type of Sample / Discipline	Ambient Air Quality Monitoring / Air Quality	Date of Sample Collection Monitoring	04-08-2025 16:05 to 05-08-2025 16:03
Point of Collection	Kalyan village (26°31'44.3"N, 74°41'16.5"E)	Date of Receipt	07-08-2025
Date of Test/Analysis	07-08-2025 to 14-08-2025	Sampling Plan	IS 5182-2000(Part 14)RA 2013
Quantity of Sample	1	Sample Collected By	Satish Jangid
Unit's representative	Mr. Laksh Sharma	Condition of Sample	Fitted Testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m ³]	BDL(<2.0)	IS 5182 (Part 25) : 2015	400.00
2	Carbon Monoxide [microgram/m ³]	230	TTH/AAQM/08	4000
3	Lead [microgram/m ³]	0.1	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO ₂ [microgram/m ³]	13.46	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m ³]	BDL(<25)	IS 5182 (Part-9) : 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m ³]	98.49	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM _{2.5}) [microgram/m ³]	23.19	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m ³]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM ₁₀) [microgram/m ³]	55.54	IS 5182 (Part 23) : 2006 RA 2017	100.00
10	Arsenic [ng/m ³]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m ³]	Less than 1	TTH/AAQM/09	20.00

25/08

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(Signature)
Senior Analyst

(Signature)
Authorized Signatory

Report No. 2540001533



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TEST REPORT

Report No. ULR No.	400001533	Date	14-08-2025
Issued To	M S Hindustan Zinc Limited, Kayaad Mines, Village Kayaad, District Ajmer, (Rajasthan)	Type of Unit	Mines
Type of sample / Discipline	Ambient Air Quality Monitoring (Chemical)	Date of Sample Collection Monitoring	04-06-2025 16:03 to 05-08-2025 16:03
Point of Collection	Kayaad Village (25°3'44.3"N 72°4'11"E)	Date of Receipt	14-08-2025
Date of Test/Analysis	07-08-2025 to 14-08-2025	Sampling Plan	IS 5182 (Part 14) RA 2014
Quantity of Sample	-	Sample Collected By	Sitaram Jangid
Unit's representative	Mr. Prakash Sharma	Condition of Sample	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 :

- The results listed here are for the analysis of the sample as received. The results may vary if the sample is not properly preserved or if the sample is not analyzed within the specified time period.
- This report is not to be used for legal or regulatory purposes. It is for informational purposes only. The results are based on the sample as received and may not represent the actual conditions at the time of sampling.
- The sample should be analyzed within the specified time period. If the sample is not analyzed within the specified time period, the results may not be valid.

Senior Analyst

Authorized Signatory

(Report No. 400001533)



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TEST REPORT

Report No./ULR No.	25400001614	Date	27-09-2025
Issued To	M.S. Hindusthan Zinc Limited, Kaveri Mines, Village Kavaad, District Ajmer, Rajasthan	Type of Unit	Miner
Type of sample Discipline	Ambient Air Quality Monitoring - TSP	Date of Sample Collection Monitoring	27-09-2025, 12:13 to 29-09-2025, 12:13
Point of Collection	Near Sub Station	Date of Receipt	27-09-2025
Date of Test/Analysis	30-08-2025 to 02-09-2025	Sampling Plan	MS 5182:2000(Part 14)RA 2017
Quantity of Sample		Sample Collected By	Surinder Sharma
Unit's representative	Mr. Prakash Sharma	Condition of Sample	As per testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard 2009
1	Ammonia [microgram/m3]	BDL(<2.0)	IS 5182 (Part 25) : 2019	400.00
2	Carbon Monoxide [microgram/m3]	220	TTH/AAQM/08	4000
3	Lead [microgram/m3]	5.12	IS 5182 (Part 22) : 2014 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	13.61	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(<2v.v.)	IS 5182 (Part-9) : 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	99.6	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	26.82	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]	56.26	IS 5182 (Part 23+7) for RA 2017	130.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	Less than 2	TTH/AAQM/09	20.00

Notes:

- The results shown in this report are based on the samples received and tested as per the sampling method specified in the report.
- This report is valid only for the period specified in the report and is not valid for any other purpose.
- The sampling method used in this report is as per the IS 5182:2000 (Part 14) RA 2017.

Puran K. Verma
Senior Analyst

Authorized Signatory
Report No. : 25400001614



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TEST REPORT

Report No./ULF No. :	40001614	Date :	12-09-2025
Issued To :	M/S Hindustan Zinc Limited (Kajaria Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample Discipline :	Ambient Air Quality Monitoring - Chemical	Date of Sample Collection Monitoring :	28-08-2025 12-13 to 29-08-2025 12-13
Point of Collection :	Near Sub Station	Date of Receipt :	30-08-2025
Date of Test Analysis :	30-08-2025 to 02-09-2025	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 :	Ft 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 14) - 2014 RA 2017	5.00
13	Benzo-alfa- Pyrene [ng/m3]	BDL(<1.0)	CPCB Guidelines	1.00

Notes :-

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Senior Analyst

Authorized Signatory
(Report No. 400001614)



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TEST REPORT

Report No /ULR No.	25400001615	Date	02-09-2025
Issued To	M/S Hindusthan Zinc Limited (Kavadi Mines) Village Kavadi, District Ajmer, Rajasthan.	Type of Unit	Mobile
Type of sample Discipline	Ambient Air Quality Monitoring - General	Date of Sample Collection Monitoring	28-08-2025 12:14 to 29-08-2025 12:14
Point of Collection	Near CRF	Date of Receipt	02-09-2025
Date of Test/Analysis	30-08-2025 to 02-09-2025	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	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]	240	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]	14.42	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]	99.35	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	21.45	IS 5182 (Part 24) : 2014	50.00
8	Sulphur Dioxide [microgram/m3]	6.21	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	56.12	IS 5182 (Part 23) : 2000 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	2.4	TTH/AAQM/09	20.00

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Senior Analyst

Authorized Signatory

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TEST REPORT

Report No./ULR No. :	400001615	Date :	02-09-2025
Issued To :	M.S. Hindusthan Zinc Limited (Kayao Mines) Village Kayao, District Amer (Rajasthan)	Type of Unit :	Mines
Type of sample/ Discipline :	Ambient Air Quality Monitoring (Chemical)	Date of Sample Collection/Monitoring :	28-08-2025 12:14 to 29-08-2025 12:14
Point of Collection :	Near CRF	Date of Receipt :	30-08-2025
Date of Test/Analysis :	30-08-2025 to 02-09-2025	Sampling Plan :	IS 5182 2000(Part 14)RA 2017
Quantity of Sample :		Sample Collected By :	Prakash Sharma
Unit's representative :	Mr. Prakash Sharma	Condition of Sample :	Fully 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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Purnima Khatun
Senior Analyst

Rajesh Kumar Shrivastava
Authorized Signatory
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TEST REPORT

Report No./ULR No. :	25400001616	Date	01-09-2025
Issued To	M/S Hindustan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan)	Type of Unit :	Metre
Type of sample Discipline :	Ambient Air Quality Monitoring - General	Date of Sample Collection Monitoring	04-08-2025 12:15 to 29-08-2025 12:15
Point of Collection	Near ANFO Station	Date of Receipt	04-08-2025
Date of Test/Analysis	30-08-2025 to 02-09-2025	Sampling Plan	IS 5182 2000(Part 14)RA 2014
Quantity of Sample :		Sample Collected By	Ravish Sharma
Unit's representative	Mr Prakash Sharma	Condition of Sample	Good 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) : 2019	400.00
2	Carbon Monoxide [microgram/m3]	230	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.14	IS 5182 (Part 23) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.35	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]	79.82	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter -PM2.5 [microgram/m3]	24.21	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.57	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter -PM 10 [microgram/m3]	61.41	IS 5182 (Part 25) : 2019 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	4.5	TTH/AAQM/09	20.00

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Ravish Sharma

Authorized Signatory
Report No. : 25400001616



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TEST REPORT

Report No./LR No	400001616	Date	02-09-2025
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	28-08-2025 12:15 to 29-08-2025 12:15
Point of Collection	Near AMLD Station	Date of Receipt	29-08-2025
Date of Test Analysis	31-08-2025 to 02-09-2025	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	Ft 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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Puran K
Senior Analyst

Rakesh Sharma
Authorized Signatory

Report No. 400001616



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TEST REPORT

Report No./ULR No.	25400001617	Date	12-09-2025
Issued To	M S Hindustan Zinc Limited (Hind. Zinc) Village Kayad, District Amer, Rajasthan	Type of Unit	Plant
Type of sample Discipline	Ambient Air Quality Monitoring - Chemical	Date of Sample Collection/Monitoring	27-08-2025 12:16 to 28-08-2025 12:16
Point of Collection	Lunaga Village (25°13'N, 74°15'E), Rajasthan, India	Date of Receipt	09-2025
Date of Test/Analysis	30-08-2025 to 02-09-2025	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	For testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL (<2.0)	IS 5182 (Part 2) : 2019	400.00
2	Carbon Monoxide [microgram/m3]	190	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.14	IS 5182 (Part 2) : 2019 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	12.66	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL (<20.0)	IS 5182 (Part-8) : 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	83.94	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	19.47	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]	48.47	IS 5182 (Part 23) : 2016 RA 2017	100.00
10	Arsenic [ng/m3]	BDL (<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	0.1	TTH/AAQM/06	20.00

Notes

- The report is valid only for the tested sample(s) and is not intended to be used for any other purpose.
- The report is valid only for the purpose for which it was issued and is not intended to be used for any other purpose.
- The report is valid only for the purpose for which it was issued and is not intended to be used for any other purpose.

PUSAN ANALYSIS

Authorized Signatory

Report No. 25400001617



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TEST REPORT

Report No-ULR No.:	400001617	Date	02-09-2025
Issued To	M/S Hindustani Zinc Limited, Kayad Mines, Village Kayad, District Amer, Rajasthan	Type of Unit	Mines
Type of sample Discipline	Ambient Air Quality Monitoring - Mines	Date of Sample Collection Monitoring	27-08-2025 12:16 to 28-08-2025 12:16
Point of Collection	Lohagal Village [26°31'08.7"N, 74°39'40.8"E]	Date of Receipt	30-08-2025
Date of Test/Analysis	30-08-2025 to 02-09-2025	Sampling Plan	IS 5152 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:-

- The laboratory is not responsible for the testing of samples which are not in compliance with the applicable standards and specifications.
- This report is valid only for the purpose for which it was issued and is not to be used for any other purpose without the special permission of the laboratory.
- The samples should be destroyed after the expiry of the validity of the test report unless otherwise specified.

Senior Analyst

Authorized Signatory
Report No: 400001617



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TEST REPORT

Report No./UIR No.	25400001618	Date	27-09-2025
Issued To	M/S Hindustan Zinc Limited, Kuan Mines, Village Kayad, District Amer, Rajasthan	Type of Unit	QA
Type of sample / Discipline	Ambient Air Quality Monitoring (General)	Date of Sample Collection Monitoring	27-09-2025 12:16 to 28-09-2025 12:16
Point of Collection	Gagwana Village [26°31'44.4"N, 74°45'29.1"E]	Date of Receipt	30-09-2025
Date of Test/Analysis	30-09-2025 to 02-10-2025	Sampling Plan	IS 5182:2006(Part 14)RA 2019
Quantity of Sample		Sample Collected By	Harish 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]	180	TTH/AAQM/08	4000
3	Lead [microgram/m3]	Less than 0.1	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	13.1	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]	92.81	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	22.04	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]	58.21	IS 5182 (Part 2) : 2001 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	0.3	TTH/AAQM/09	20.00

Notes:-

- # The results are given only for the test sample. No extrapolation or estimation is made for any other sample.
- # This report is for the representative sample only. The results are not to be used for any other purpose. It is not to be used as a basis for any legal action.
- # The report will be returned after 10 days from the date of receipt of the sample unless otherwise specified.

Senior Analyst

Authorized Signatory

Report No. 25400001618



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TEST REPORT

Report No./ULR No.	400001618	Date	02-09-2025
Issued To	M.S. Hindusthan Zinc Limited (Kajadi Mines) Village Kajadi, District Ajmer (Rajasthan)	Type of Unit	Mines
Type of Sample Discipline	Ambient Air Quality Monitoring - Chemical	Date of Sample Collection Monitoring	27-08-2025 12:16 to 28-08-2025 12:16
Point of Collection	Gagwana Village (20°13'14.47" N, 73°42'01.11"E)	Date of Receipt	30-08-2025
Date of Test/Analysis	30-08-2025 to 02-09-2025	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 ³]	BDL(<2.0)	IS 5182 (Part 11), 2012 RA 2017	5.00
13	Benzo-alfa- Pyrene [ng/m ³]	BDL(<1.0)	CPCB Guidelines	1.00

Notes :-

- # The results are referred only to the tested sample and no claim of safety of preservation of products is held or implied or implied.
- # This report is not to be reproduced wholly or in part without the used evidence in the court of law and should not be used in any advertisement without our special permission in writing.
- # The samples will be destroyed after 15 days from the date of receipt of test report unless otherwise specified.

Senior Analyst

Authorized Signatory
Report No. 400001618



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TEST REPORT

Report No./UIR No.	25400001619	Date	22-09-2025
Issued To	MS Hindustan Zinc Limited (Kajadi Mines) Village Kajadi, District Ajmer (Rajasthan)	Type of Unit	None
Type of sample Discipline	Ambient Air Quality Monitoring - Chemical	Date of Sample Collection-Monitoring	21-08-2025 12:17 to 28-08-2025 12:17
Point of Collection	Kajadi Village [26°31'44.3"N 74°41'44"E]	Date of Receipt	21-08-2025
Date of Test/Analysis	30-08-2025 to 02-09-2025	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	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]	170	TTH/AAQM/08	4000
3	Lead [microgram/m3]	Less than 0.1	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	13.71	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]	75.78	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	11.65	IS 5182 (Part 24) : 2018	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]	45.47	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]	BDL	TTH/AAQM/09	20.00

Notes:-

- The results are reported as they received, unprocessed, without any adjustment or modification.
- This report is to be reproduced wholly and partially, or used outside the limits of use, without the prior written permission of the laboratory.
- The laboratory is not responsible for any loss or damage to the sample or to the equipment used.

Senior Analyst

Authorized Signatory

(Report No. 25400001619)



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TEST REPORT

Report No./ULR No.	400001619	Date	02/09/2025
Issued To	M/S Hindustan Zinc Limited, Kayad Mines, Village Kayad, District Ajmer, Rajasthan	Type of Unit	Mines
Type of sample Discipline	Air-Best Air Quality Monitoring (Chemical)	Date of Sample Collection/Monitoring	27-08-2025 12:17 to 28-08-2025 12:17
Point of Collection	Kayad Village (26°13'44.3"N 74°41'16.5"E)	Date of Receipt	30/08/2025
Date of Test/Analysis	31/08/2025 to 02/09/2025	Sampling Plan	IS 5182:2000(Part 14)RA 2017
Quantity of Sample		Sample Collected By	Prakash Sharma
Unit's representative	M. Prakash Sharma	Condition of Sample	For testing

RESULTS

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

Notes:-

- The report is generated only for the bulk sample(s) analysed. Sampling of products is as per information supplied.
- This report is to be kept retained and, wherever necessary, the used evidence in the court of law should not be used in any adversarial way without prior written permission from us.
- This sample will be tested per after 15 days from the date of issue of test report, unless otherwise specified.

Senior Analyst

Authorized Signatory

(Report No. 400001619)



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TEST REPORT

Report No./T.R. No.	2540/07/790	Date	27.07.2019
Issued To	M/S. Industries Zone Limited, Kuchinda Main, Village Nayal, District Ajmer, Rajasthan	Type of Test	Water
Type of Sample Discipline	Ambient Air Quality Monitoring - Water	Date of Sample Collection/Location	27.07.2019, 12.28 to 12.58, 12.17
Point of Collection	Point Sub Station	Date of Release	27.07.2019
Date of Test	27.07.2019, 12.28 to 12.58	Sampling Plan	IS 5182 (Part 23) 2006 RA 2017
Quantity of Sample		Sample Characteristic	Industrial Effluent
Unit's representative	Mr. Prakash Sharma	Condition of Sample	Fresh, unaltered

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m ³]	BDL (x2.0)	IS 5182 (Part 25) 2017	400.00
2	Carbon Monoxide [microgram/m ³]	340	TTH/AAQM-08	4000
3	Lead [microgram/m ³]	0.12	IS 5182 (Part 22) 2006 RA Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO ₂ [microgram/m ³]	14.33	IS 5182 (Part 6) 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m ³]	BDL (x2.0)	IS 5182 (Part-9) 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m ³]	151.09	IS 5182 (Part 4) 1998 RA 2019	Not Specified
7	Particulate Matter (PM _{2.5}) [microgram/m ³]	35.46	IS 5182 (Part 24) 2017	60.00
8	Sulphur Dioxide [microgram/m ³]	6.50	IS 5182 (Part 2) 2006 RA 2017	80.00
9	Particulate Matter (PM ₁₀) [microgram/m ³]	82.51	IS 5182 (Part 23) 2006 RA 2017	100.00
10	Arsenic [ug/m ³]	BDL (x2.0)	TTH/AAQM-11	6.00
11	Nickel [ng/m ³]	2	IS 5182 Part 26 2017	20.00

Note:

1. This report is valid only for the purpose for which it has been issued.
2. This report is not valid for any other purpose without the written consent of the laboratory.
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Senior Analyst

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TEST REPORT

Report No./LIR No.	4/2001796	Date	03.11.2025
Issued to	M. P. K. Chohan, District Collector, District Jaipur, Rajasthan	Name of Unit	Ministry
Type of sample/ Discipline	Ambient Air Quality Monitoring (Open air)	Date of Sample Collection/ Monitoring	27.10.2025, 22.28 to 28.10.2025, 27.12.28
Point of Collection	Open Sub-Station	Date of Receipt	Nov. 6, 2025
Date of Test	Nov. 06, 2025 to Nov. 2, 2025	Sampling Plan	IS 5182 (Part 11): 2012 (RA 2017)
Quantity of Sample		Sample Collected by	Krishna Murari
Units represented	M. P. K. Chohan	Condition of Sample	For Testing

RESULTS

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

Note:

1. The results are given in the units as specified in the standard. The units are given in the units as specified in the standard.
2. The results are given in the units as specified in the standard. The units are given in the units as specified in the standard.
3. The results are given in the units as specified in the standard. The units are given in the units as specified in the standard.
4. The results are given in the units as specified in the standard. The units are given in the units as specified in the standard.

Sample Analyst

Gajesh Maneshwar
Authorized Signatory
(Reg. No. L-400001796)



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TEST REPORT

Report No./BLR No.	2540001798	Date	3-10-2025
Issued To	M.S. Hindusthan Zinc Limited, Jaipur, India Vaidya Karyad, District Ajmer, Rajasthan	Type of Unit	None
Type of sample & Sample	Ambient Air (Daily, Monitoring, Urban)	Date of Sample Collection/Testing	27-09-2025 to 29-09-2025 27-09-2025
Point of Collection	Phase ANFO Station	Date of Receipt	27-09-2025
Date of Test	30-09-2025 to 03-10-2025	Sampling Plan	IS 5182 (Part 14): 2017
Quantity of Sample		Sample Collected By	Prakash Mishra
Unit's representative	Mr. Prakash Sharma	Collection of Sample	For Testing

RESULTS

S No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL <2.0	IS 5182 (Part 25): 2017	400.00
2	Carbon Monoxide [microgram/m3]	360	TTH/AAQM/08	4000
3	Lead [microgram/m3]	1.15	IS 5182 (Part 22): 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.43	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]	150.5	IS 5182 (Part 4): 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	33.75	IS 5182 (Part 24): 2017	60.00
8	Sulphur Dioxide [microgram/m3]	6.37	IS 5182 (Part 2): 2007 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	78.74	IS 5182 (Part 23-2): 1999 RA 2017	100.00
10	Arsenic [ng/m3]	BDL <2.0	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	1.1	IS 5182 Part 26: 2007	20.00

Note:

1. The results are based on the data received from the client and are not to be used for any other purpose.
2. The results are based on the data received from the client and are not to be used for any other purpose.
3. The results are based on the data received from the client and are not to be used for any other purpose.
4. The results are based on the data received from the client and are not to be used for any other purpose.

Senior Analyst

Authorised Signatory
Report No. 2540001798



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TEST REPORT

Report No./LIS No.	400001798	Date	15.11.2025
Issued To	M.S. Hindustan Zirconium, Khas, 11.5 km, Village Khas, District Ajmer (Rajasthan)	Type of test	Trace
Type of sample & Source	Ambient Air Quality Monitoring Station	Date of Sample Collection Method	27/09/2025 12:26 to 28/09/2025 12:26
Plant Name & Loc.	Near AWC Station	Date of Report	15.11.2025
Date of Test	27/09/2025 to 28/09/2025	Standard Ref.	IS: 5182:2000, Part 14(RA 2017)
Quantity of Sample		Sample Collected By	Krishna Murari
Units represented	Mr. Prakash Sharma	Condition of Sample	Fitted testing

RESULTS

S. No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard 2009
12	Benzene [microgram/m3]	BDL <1	IS 5182, Part 11 : 2012 RA 2017	5.00
13	Benzo-alfa- Pyrene [ng/m3]	BDL <1.00	CPCB Guidelines	1.00

Notes:

- The observed value is less than the detection limit. The observed value is less than the detection limit.
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Rajesh Maheshwar
Senior Analyst

Rajesh Maheshwar
Authorized Signatory
(Report No. 400001798)



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TEST REPORT

Report No./LR No.	2540001/01797	Date	25.10.2025
Issued To	M/S Hindustan Zinc Industries Ltd., Mihir Ka, Jaipur District, Rajasthan	Type of test	NA
Type of sample/ Discipline	Ambient Air Quality Monitoring Station	Date of Sample Collection/Testing	25.10.25 to 25.10.25 25.10.25 to 25.10.25
Point of Collection	Near ORI	Date of Receipt	25.10.2025
Date of Test	25-09-2025 to 03-10-2025	Sampling Point	IS 5182 (Part 4) 1999 RA 6.1.1
Quantity of Sample		Sample Collected By	Prakash Kumar
Unit's representative	M. Prakash Sharma	Description of Sample	Filtering

RESULTS

S No.	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(<2.0)	IS 5182 (Part 25) 2018	400.00
2	Carbon Monoxide [microgram/m3]	380	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]	14.39	IS 5182 (Part 6) 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(<2.0)	IS 5182 (Part-6) 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	144.19	IS 5182 (Part 4) 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	34.29	IS 5182 (Part 24) 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.52	IS 5182 (Part 2) 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	75.17	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]	5.17	IS 5182 Part:26 2020	26.00

Note:

1. The test results are valid only for the purpose for which the test was conducted.
2. The test results are valid only for the purpose for which the test was conducted.
3. The test results are valid only for the purpose for which the test was conducted.
4. The test results are valid only for the purpose for which the test was conducted.

Purnan Mohi Yogi
Senior Analyst

Rajesh Kumar Singhwar
Authorized Signatory

Report No.: 254-0001797



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TEST REPORT

Report No./JLR No.	400001797	Date	13-11-2025
Issue To	M. S. Hindusthan Zinc Limited (Kavadi Mines Village Kavadi, District Amer, Rajasthan)	Type of Test	Metals
Type of sample Discipline	Ambient Air Quality Monitoring - Chemical	Date of Sample Collection/Monitoring	27-09-2025 12:19 to 28-09-2025 12:19
Point of Collection	Near GRI	Date of Receipt	30-09-2025
Date of Test	13-09-2025 to 13-10-2025	Sampling Plan	IS 5182 2000(Part 14)RA 2014
Quantity of Sample	-	Sample Collected By	Krushna Murari
Unit's representative	M. 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

- The results are valid only for the tested sample and shall not be used for estimation and/or predictive monitoring for test not applied.
- This report is for the required study only and is not to be used as evidence. The report of how and when it is used must not be used in any advertising and/or promotional material without our written permission.
- The sample is to be preserved within 14 days from the date of receipt of test report unless otherwise stipulated.

Senior Analyst

Authorized Signatory
(Report No: 400001797)



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TEST REPORT

Report No./ULR No	254000019/0	Date	13/10/2025
Issued To	M/S Hindustan Zinc Limited, Kalyan Mahal, Jaipur, Kalyan District, Amber, Rajasthan	Type of Unit	Amber
Type of Sample (Sample)	Ambient Air (Qualti. Monitoring) - Ambient	Date of Sample Collection	20/09/2025 to 22/09/2025
Point of Collection	Kalyan Village (20°5'N 74°25' E) 2014/19/12	Date of Receipt	23/09/2025
Date of Test	30/09/2025 to 03/10/2025	Sampling Plan	IS 5182:2000/Part 14 (RA 2019)
Quantity of Sample	-	Sample Collector By	Krishna Murari
Unit's representative	Mr. Prakash Sharma	Customer's Sample	For Testing

RESULTS

S No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia (microgram/m ³)	BDL (<2.0)	IS 5182 (Part 20): 2017	400.00
2	Carbon Monoxide (microgram/m ³)	310	TTH/AAQM/08	4000
3	Lead (microgram/m ³)	Less than 0.1	IS 5182 (Part 22): 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO ₂ (microgram/m ³)	13.85	IS 5182 (Part 6): 2006 Reaffirmed 2017	80.00
5	Ozone (microgram/m ³)	BDL (<2.0)	IS 5182 (Part 9): 2017	150.00
6	Suspended Particulate Matter (SPM) (microgram/m ³)	93.7	IS 5182 (Part 4): 1999 RA 2019	Not Specified
7	Particulate Matter (PM _{2.5}) (microgram/m ³)	24.24	IS 5182 (Part 24): 2019	60.00
8	Sulphur Dioxide (microgram/m ³)	Less than 6.0	IS 5182 (Part 2): 2001 RA 2017	80.00
9	Particulate Matter (PM ₁₀) (microgram/m ³)	113.61	IS 5182 (Part 23): 2006 RA 2017	100.00
10	Arsenic (ng/m ³)	BDL (<2.0)	TTH/AAQM/11	6.00
11	Nickel (ng/m ³)	0.1	IS 5182 Part-26 (2025)	20.00

Notes:

- The test results are reported as observed values and are not corrected for meteorological conditions.
- The test results are reported as observed values and are not corrected for meteorological conditions.
- The test results are reported as observed values and are not corrected for meteorological conditions.
- The test results are reported as observed values and are not corrected for meteorological conditions.


Suran Mehta
Senior Analyst


Suran Mehta
Authorized Signatory
Report No.: 254000019/0



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TEST REPORT

Report No./QR No.	4011/2025	Date	23/05/25
Issued To	M. S. H. Rajasthan Zinc Limited, Karna Mines, Thane Karna, District Amber (Rajasthan)	Type of Unit	Mines
Type of Sample (Description)	Ambient Air quality Monitoring - Ambient	Date of Sample Collection Month/Day	24/05/25 to 27/05/25 12:32
Point of Collection	Sample Point (2nd Phase 2nd, 3rd Phase 1st)	Date of Receipt	30/05/2025
Date of Test	24/05/25 to 02/06/2025	Sampling Plan	IS 5182:2000(Part 14)RA 2014
Quantity of Sample		Sample Collected By	Kashima Munari
Units represented	100 mg/l (approx.)	Component of Sample	FAIR Testing

RESULTS

S No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m3]	510 < 2.0	IS 5182 (Part 14) RA 2014	5.00
13	Benzo-alfa- Pyrene [ng/m3]	BDL < 1.0	CPCB Guidelines	1.00

Note:

- Results reported in this report are based on the data collected by the laboratory. The laboratory is not responsible for the accuracy of the data collected by the client.
- The results are based on the data collected by the laboratory. The laboratory is not responsible for the accuracy of the data collected by the client.
- The results are based on the data collected by the laboratory. The laboratory is not responsible for the accuracy of the data collected by the client.

Signature
Senior Analyst

Signature
Kashima Munari
(Head of Laboratory/1350)



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TEST REPORT

Report No./LIR No.	2540001801	Date	15/12/20 </td
Issued To	M/S. Prakashan Engineering Works Village, Kalyan, District, Sonapat, Rajasthan	Type of Test	QA
Type of Sample/Description	Sample of Air Quality Monitoring Station	Date of Sample Collection	25/12/2019 12:40 to 27/12/2019 12:40
Point of Collection	Chitwan Village, District, Sonapat, Rajasthan	Date of Report	15/12/2020
Date of Test	30/12/2019 to 31/12/2019	Sample Ref.	S-19/2019 Part 149A & 14
Quantity of Sample		Sample Collected By	Prakash Moran
Units representative	M. Prakash Sharma	On whom Sample	For testing

RESULTS

S No	Parameters	Unit of Sample	Testing Factor	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL <2.0	IS 5182 (Part 15) : 2015	400.00
2	Carbon Monoxide [microgram/m3]	280	TTH/AAQM/08	4000
3	Lead [microgram/m3]	Less than 0.1	IS 5182 (Part 22) : 2004 Reaffirmed 2015	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 <2.0	IS 5182 (Part-9) : 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	112.11	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	13.94	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	Less than 6.0	IS 5182 (Part 2) : 2007 RA 2017	80.00
9	Particulate Matter (PM10) [microgram/m3]	56.98	IS 5182 (Part 13) : 2003 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 1) : 2003	20.00

Notes:

1. This report is valid only for the purpose and conditions specified in the report.
2. The report is not valid for any other purpose or conditions.
3. The report is not valid for any other purpose or conditions.
4. The report is not valid for any other purpose or conditions.

Senior Analyst

Authorized Signatory
(Reg. No. 2540001801)



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TEST REPORT

Report No. / LR No.	AM/001801	Date	23/05/2025
Issued To	M. S. Hindusthan Z. & Industries Pvt. Ltd. (Gagwana Road, District Jaipur, Rajasthan)	Type of Unit	Area
Type of Sample Discipline	Ambient Air Quality Monitoring - Ambient	Date of Sample Collection Monitor	23/05/2025 12:40 to 27/05/2025 12:40
Point of Collection	Gagwana Village (26°31'44.41"N, 74°12'51.17"E)	Date of Receipt	23/05/2025
Date of Test	23/05/2025 to 25/05/2025	Sampling Plan	SP-142/2000 (Part 14) RA 2017
Quantity of Sample	-	Sample Collected By	Krishna Murari
Client's representative	Mr. Prakash Sharma	Condition of Sample	For testing

RESULTS

S No.	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene (microgram/m ³)	BDL (< 0.3)	IS 5182 (Part 11) 2012 RA 2017	5.00
13	Benzo-alpha- Pyrene (ng/m ³)	BDL (< 1.0)	CPCB Guidelines	1.00

Notes:

- The results are not to be used for the legal or regulatory purposes. They are for reference only. If products are to be used for legal purposes, the results should be confirmed by a competent authority.
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- The results are not to be used for the legal or regulatory purposes. They are for reference only. If products are to be used for legal purposes, the results should be confirmed by a competent authority.

For

 Mr. Prakash Sharma
 Client's Representative

For

 Mr. Prakash Sharma
 Authorized Signatory
 (Phone : 9460222039)



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TEST REPORT

Report No./ULR No.	2540001802	Date	03/10/2025
Issued To	M.S. Industries Pvt. Limited, Kailash Nagar, Khandwa, District Amravati, Maharashtra	Typical Use	Moist
Type of Sample Discipline	Ammonia, Carbon Monoxide, Nitrogen Dioxide	Stage of Sample	03/10/2025 12:00 PM to 03/10/2025 12:00 PM
Point of Collection	Industrial Vehicle (Part 4, Part 2, Part 5, Part 6)	Date of Receipt	03/10/2025
Date of Test	03/10/2025 to 03/10/2025	Sampling Plan	IS 5182 (Part 26): 2018 RA 2017
Quantity of Sample		Sample Container	Empty Gas Cylinder
Unit's representative	Mr. Prakash Sharma	Condition of Sample	Not Packaging

RESULTS

S.No	Parameters	Observed value	Testing Procedure	Limits as per National Ambient Air Quality Standard 2008
1	Ammonia [microgram/m ³]	BDL < 2.0	IS 5182 (Part 26): 2018	400.00
2	Carbon Monoxide [microgram/m ³]	290	TTH-AAQM-08	4000
3	Lead [microgram/m ³]	Less than 0.1	IS 5182 (Part 26): 2018 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO ₂ [microgram/m ³]	13.55	IS 5182 (Part 6): 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m ³]	BDL < 2.0	IS 5182 (Part 6): 2006	100.00
6	Suspended Particulate Matter (SPM) [microgram/m ³]	98.95	IS 5182 (Part 4): 1999 RA 2019	Not Specified
7	Particulate Matter (PM _{2.5}) [microgram/m ³]	25.52	IS 5182 (Part 26): 2018	60.00
8	Sulphur Dioxide [microgram/m ³]	Less than 6.0	IS 5182 (Part 2): 2001 RA 2017	80.00
9	Particulate Matter (PM ₁₀) [microgram/m ³]	55.24	IS 5182 (Part 26): 2018 RA 2017	100.00
10	Arsenic [ng/m ³]	BDL < 2.0	TTH-AAQM-11	6.00
11	Nickel [ng/m ³]	5.7	IS 5182 (Part 26): 2018	20.00

Notes:

- The test results are valid for the period of 12 months from the date of issue of the report.
- The test results are valid for the period of 12 months from the date of issue of the report.
- The test results are valid for the period of 12 months from the date of issue of the report.
- The test results are valid for the period of 12 months from the date of issue of the report.

Senior Analyst

Signature
Date: 03/10/2025



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TEST REPORT

Report No./Lab No.	430001802	Date	15/01/2025
Issued To	M/S. Rajasthan Zirconium Refractories Pvt. Ltd. (RZR) Village Rayad, District Amber, Rajasthan	Type of Test	Monitor
Type of Sample Description	Ambient Air Quality Monitoring Station at	Date of Sample Collection Monitor	26-09-2025 12:41 to 27-09-2025 12:41
Project Location	Hindalco Village, District Amber, Rajasthan	Date of Report	15/01/2025
Lab. Ref. No.	26-09-2025-12-41-27	Sampled from	IS 5182 (Part 11): 2017 RA 2017
Quantity of Sample		Sample Collected By	Prakash Kumar
On Behalf of	M/S. 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 [microgramm3]	BDL <1.0	IS 5182 (Part 11): 2017 RA 2017	5.00
13	Benzo-alfa- Pyrene [ngm3]	BDL <1.0	CPCB Guidelines	1.00

Notes:

1. This report is valid only for the above sample(s). Any other sample(s) not mentioned in this report shall be treated as separate.
2. This report is not to be used for legal proceedings without the prior written consent of the laboratory.
3. This report is not to be used for any other purpose without the prior written consent of the laboratory.

Senior Analyst

Authorized Signatory
(Report No. 430001802)

HINDUSTAN ZINC LIMITED													
KAYAD MINE													
Noise Level Monitoring Report (April-25 to Sept-25)													
Sr.No	Location	Day time Industrial Limit 75dB						Night time Industrial limit 65dB					
		Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25
N-1	South West Corner of Mine Boundary	61.6	62.8	65.4	65.1	60.3	61.3	52.5	53.7	56.3	56.3	51.2	50.6
N-2	East Side Boundary Near West Dump	60.3	60.7	66.4	63.8	60.6	58.5	51.2	51.5	57.3	54.7	51.5	50.2
N-3	North East Corner of Mine Boundary	63.1	64.3	65.2	61.7	62.4	63.5	54.2	55.2	56.1	52.5	53.3	52.8
N-4	North West Corner of Mine Boundary	64.4	63.9	63.8	65.2	60.8	57.8	55.3	54.7	54.7	56.1	51.7	48.3
N-5	West Side Towards Kayad Village	62.4	63.5	64.3	56.2	59.7	56.1	53.3	54.4	55.2	47.3	50.6	47.5
N-6	South East East Corner	60.9	61.3	63.5	65	64.3	61.7	51.8	52.2	54.4	50.7	55.2	52.8
	Sub-Station	65.2	66.5	63.9	49.1	59.6	57.8	56.7	57.3	54.7	40.7	50.5	48.2
Sr.No	Location												
N-7	Kayad Village	51.9	52.3	50.4	51.9	47.7	52.7	40.7	41.7	39.3	41.8	38.5	43.9
N-8	Lohagal Village	52.6	53.5	50.5	52.7	48.5	51.8	41.5	42.4	38.4	40.5	39.4	42.5
N-9	Gagwana Village	53.7	53.8	51.2	53.3	49.8	51.9	43.5	43.5	40.1	42.2	40.7	40.7



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TEST REPORT

Report No. ULR No.	25600000581	Date	25-04-2025
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	09-04-2025
Point of Collection	N1 South West Corner of Mine Boundary	Date of Receipt	12-04-2025
Date of Test Analysis	12-04-2025 to 25-04-2025	Sampling Plan	TTH/NOISE/01
Quantity of Sample	-	Sample Collected By	Pranlad yogi
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)]	61.6	IS 9989	75
2	Noise Level (Night Time): Leq [dB(A)]	52.5	IS 9989	65

Notes

- The results are reported only to the extent specified in the parameters. No endorsement of products or the test methods is implied.
- The equipment used in the report is of the latest model and is calibrated by the user and the user is responsible for the use of the equipment. The user is not to be used in any other way without the user's written consent.
- The sample will be tested as per the test method specified in the report. The user is responsible for the use of the equipment as specified.

Senior Analyst

Authorized Signatory
(Report No. 25600000581)



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

TEST REPORT

Report No./ULR No. :	25600000582	Date	25-04-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Aimer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring - Chemical	Date of Sample Collection Monitoring :	09-04-2025
Point of Collection :	N2 East Side Boundary Near West Dump	Date of Receipt :	12-04-2025
Date of Test/Analysis :	12-04-2025 to 25-04-2025	Sampling Plan	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By	Pranav Vogi
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)]	60.3	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	51.2	IS 9989	65

Notes :

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Pranav Vogi
Senior Analyst

Prakash Sharma
Authorized Signatory
(Report No. 25600000582)



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TEST REPORT

Report No./ULR No.	25600000583	Date	25-04-2025
Issued To	M/S Hindustan 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	09-04-2025
Point of Collection	N3 North East Corner of Mine Boundary.	Date of Receipt	12-04-2025
Date of Test/Analysis	12-04-2025 to 25-04-2025	Sampling Plan	TTH.NOISE-01
Quantity of Sample	-	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	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time): Leq [dB(A)]	63.1	IS 9989	75
2	Noise Level (Night Time): Leq [dB(A)]	54.2	IS 9989	65

Notes :-

- # The result is valid only for the tested sample(s). It is not a statement of product fitness or compliance.
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Prahlad Yogi

Senior Analyst

Rajeshwar

Authorized Signatory

(Report No: 25600000583)



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TEST REPORT

Report No./ULR No.	25600000584	Date :	25-04-2025
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	10-04-2025
Point of Collection	N4 North West Corner of Mine Boundary	Date of Receipt :	12-04-2025
Date of Test/Analysis :	12-04-2025 to 25-04-2025	Sampling Plan	TTH:NOISE:01
Quantity of Sample :	-	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	Limits as per Environment protection rules 1986
1	Noise Level (Day Time) : Leq [dB(A)]	64.4	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	55.3	IS 9989	65

Notes :-

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Puran Mal Wani
Senior Analyst

Rajesh Maneshwari
Authorized Signatory

(Report No: 25600000584)



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TEST REPORT

Report No./ULR No.:	25600000585	Date	25-04-2025
Issued To	M/S Hindustan Zinc Limited (Kavay Mines) Village Kavay, District Ajmer (Rajasthan)	Type of Unit	Mines
Type of sample / Discipline	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring	10-04-2025
Point of Collection	15' West Side Towards Kavay Village	Date of Receipt	12-04-2025
Date of Test/Analysis	12-04-2025 to 25-04-2025	Sampling Plan	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By	Prahlad yogi
Unit's representative	Mr. Prakash Sharma	Condition of Sample	Fitted 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)]	62.4	IS 9989	75
2	Noise Level (Night Time): Leq [dB(A)]	53.3	IS 9989	65

Notes :-

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Puran Kishor Yogi
Senior Analyst

Rajesh Mohan Sharma
Authorized Signatory
(Report No: 25600000585)



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TEST REPORT

Report No./ULR No.	25600000586	Date	25-04-2025
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	10-04-2025
Point of Collection	N6 South East Corner	Date of Receipt :	12-04-2025
Date of Test/Analysis	12-04-2025 to 25-04-2025	Sampling Plan :	TTH-NOISE/01
Quantity of Sample :	-	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	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 :-

- # The results and data relate to the test as stipulated in parameter and Engineering test methods. Results are for guidance only.
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(Signature)
S. Prahlad Yogi

(Signature)

Authorized Signatory

Report No: 25600000586



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TEST REPORT

Report No./ULR No.	25600000700	Date	07-06-2025
Issued To	M/S Hindustan Zinc Limited (Kayad Mines) Village Kayad District Amer (Rajasthan)	Type of Unit	Mines
Type of sample Discipline	Ambient Noise Level Monitoring - Chemical	Date of Sample Collection/Monitoring	07-05-2025
Point of Collection	N ^o 1 South West Corner of Mine Boundary	Date of Receipt	13-05-2025
Date of Test/Analysis	13-05-2025 to 20-05-2025	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)]	62.8	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	53.7	IS 9989	65

Note:-

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Puran Mali Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory

(Report No. 25600000700)



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TEST REPORT

Report No./ULR No.	25600000701	Date	20-05-2025
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	07-05-2025
Point of Collection	N2 East Side Boundary Near West Dump	Date of Receipt	13-05-2025
Date of Test/Analysis	13-05-2025 to 20-05-2025	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)]	60.7	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	51.5	IS 9989	65

Note:-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
(Report No. 25600000701)



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TEST REPORT

Report No./ULR No.	25600000702	Date	20-05-2025
Issued To	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Aimer (Rajasthan),	Type of Unit	Mines
Type of sample Discipline	Ambient Noise Level Monitoring Chemical	Date of Sample Collection/Monitoring	08-05-2025
Point of Collection	N3 North East Corner of Mine Boundary	Date of Receipt	13-05-2025
Date of Test/Analysis	13-05-2025 to 20-05-2025	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)]	64.3	IS 9989	75
2	Noise Level (Night Time): Leq [dB(A)]	55.2	IS 9989	65

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 25600000702)



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TEST REPORT

Report No./ULR No	25600000703	Date	20-05-2025
Issued To	M/S Hindustan Zinc Limited, Kalyad Mines, Village Kalyad, District Amer (Rajasthan)	Type of Unit	Mines
Type of sample / Discipline	Ambient Noise Level Monitoring - Chemical	Date of Sample Collection/Monitoring	08-05-2025
Point of Collection	N4 North West Corner of Mine Boundary	Date of Receipt	13-05-2025
Date of Test Analysis	13-05-2025 to 20-05-2025	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)]	63.9	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	54.7	IS 9989	65

Note :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 25600000703)



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TEST REPORT

Report No./ULR No.:	25600000704	Date	20-05-2025
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	08-05-2025
Point of Collection	N5 West Side Towards Kayad Village	Date of Receipt	13-05-2025
Date of Test/Analysis	13-05-2025 to 20-05-2025	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)]	63.5	IS 9989	75
2	Noise Level (Night Time): Leq [dB(A)]	54.4	IS 9989	65

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory

Report No: 25600000704 ;



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TEST REPORT

Report No./ULR No.	25600000705	Date	20-05-2025
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	08-05-2025
Point of Collection	N6 South East Corner	Date of Receipt	13-05-2025
Date of Test/Analysis	13-05-2025 to 20-05-2025	Sampling Plan	TTH/NOISE/01
Quantity of Sample	-	Sample Collected By	Sitaram Jangid
Unit's representative	Mr. Prakash Sharma	Condition of Sample	Ft. 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)]	61.3	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	52.2	IS 9989	65

Notes :

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Purni Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory

(Report No. 25600000705)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./UI R No.	25600000696	Date	20-05-2025
Issued To	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Amer (Rajasthan).	Type of Unit	Mines
Type of sample / Discipline	Ambient Noise Level Monitoring - Chemical	Date of Sample Collection-Monitoring	07-05-2025
Point of Collection	Kayad Village (26°31'44"N 74°41'16"E)	Date of Receipt	13-05-2025
Date of Test/Analysis	13-05-2025 to 20-05-2025	Sampling Plan	ITH-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)]	52.3	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	41.2	IS 9989	45

Notes:

- # The results are to be used only for the purpose of sample analysis and monitoring. Extent of use of products is neither affirmed nor implied.
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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 25600000696)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No.:	25600000697	Date:	20-05-2025
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:	13-05-2025
Point of Collection:	Lohagal Village (26°31'08.7"N 74°39'30.8"E)	Date of Receipt:	13-05-2025
Date of Test/Analysis:	13-05-2025 to 20-05-2025	Sampling Plan:	TTH NOISE/01
Quantity of Sample:	-	Sample Collected By:	Sitaram Jangir
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)]	53.5	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	42.4	IS 9989	45

Notes:-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No. 25600000697)



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



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	25600000698	Date	20-05-2025
Issued To :	M S Hindusthan Zinc Limited (Kavadi Mines) Village Kavadi, District Ajmer (Rajasthan)	Type of Unit :	Mines
Type of sample / Discipline	Ambient Noise Level Monitoring - Chemical	Date of Sample Collection/Monitoring	07-05-2025
Point of Collection	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	13-05-2025
Date of Test/Analysis :	13-05-2025 to 20-05-2025	Sampling Plan :	TTR: 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)]	53.8	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	43.5	IS 9989	45

Notes :

- # The results listed refer only to the tested sample(s) & parameters as indicated. Endorsement of products is neither claimed nor implied.
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- # The sample will be destroyed after 30 days from the date of test report unless otherwise specified.

Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 25600000698)



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TEST REPORT

Report No./ULR No. :	25600000699	Date :	20-05-2025
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 :	07-05-2025
Point of Collection :	near sub station	Date of Receipt :	13-05-2025
Date of Test/Analysis :	13-05-2025 to 20-05-2025	Sampling Plan :	TTI 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)]	66.5	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	57.3	IS 9989	65

Notes :

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Puran Mar Tug.
Senior Analyst

Rajesh Maheshwari
Authorized Signatory

(Report No: 25600000699)



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TEST REPORT

Report No./LR No.	2560000862	Date	15-06-2025
Issued To	M/S Hindustan Zinc Limited, Khetri Mines, Village Khetri, District Ajmer, Rajasthan	Type of Unit	Mines
Type of Sample / Discipline	Ambient Noise Level Monitoring - General	Date of Sample / Collection / Monitoring	14-06-2025
Point of Collection	1st South West Corner of Mine Boundary	Date of Receipt	15-06-2025
Date of Test Analysis	15-06-2025 to 19-06-2025	Sampling Plan	1 FH NOISE/01
Quantity of Sample	-	Sample Collected By	Rakesh Sharma
Units representative	Mr Prakash Sharma	Condition of Sample	Under 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

Note:

1. The test results are valid only if the test is conducted in accordance with the test method specified.
2. The test results are valid only if the test is conducted in accordance with the test method specified.
3. The test results are valid only if the test is conducted in accordance with the test method specified.
4. The test results are valid only if the test is conducted in accordance with the test method specified.

Signature
Senior Analyst

Signature
Authorized Signatory
Report No. 2560000862



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TEST REPORT

Report No./UTR No.	25600000863	Date	16-06-2025
Issued To	M/S Hindustan Zinc Limited, Kayad Mines Village Kayad, District Ajmer, Rajasthan	Type of Unit	Mines
Type of sample Discipline	Ambient Noise Level Monitoring - Environmental	Date of Sample Collection Month/Year	June 2025
Point of Collection	N2 East Side Boundary, Near West Dump	Date of Receipt	June 2025
Date of Test/Analysis	16-06-2025 to 19-06-2025	Sampling Plan	GH-NOISE-01
Quantity of Sample	-	Sample Collected By	Karesh Sharma
Unit's representative	Mr. Prakash Sharma	Condition of Sample	As per test plan

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	68.4	IS 9969	75
2	Noise Level (Night Time) : Leq [dB(A)]	57.3	IS 9969	65

Notes:-

1. This report shall refer only to the tested parameters. It does not refer to any other parameters not tested and/or not reported.
2. The values mentioned in this report are only for reference and not for legal purposes. The values mentioned in this report are not to be used for any legal purpose without the consent of the laboratory.
3. This report will be kept valid for 12 months from the date of issue. After 12 months, the report will be invalid.

Senior Analyst
Purushottam Singh

Authorized Signatory
Report No. 25600000863



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TEST REPORT

Report No./ULR No.	25500000864	Date	10-06-2025
Issued To	M/S Hindustan Zinc Limited, Kalyan Mines, Village Kalyan, Distt. Amritsar (Punjab)	Type of Unit	Mines
Type of sample/Discharge	Ambient Noise Level Monitoring (Continuous)	Date of Sample Collection/Monitoring	14-06-2025
Point of Collection	102 North East Corner of Mine Boundary	Date of Receipt	14-06-2025
Date of Test/Analysis	16-06-2025 to 19-06-2025	Sampling Plan	TR-NOISE 01
Quantity of Sample	-	Sample Collected By	Rakesh Sharma
Unit's representative	Mr. Prakash Sharma	Condition of Sample	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)]	65.2	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	56.1	IS 9989	65

Note:

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- The report is valid only for the purpose for which it is issued. The user must take all the necessary precautions to ensure the accuracy of the results.
- The report is valid only for the purpose for which it is issued. The user must take all the necessary precautions to ensure the accuracy of the results.

For Testing

Semir Anand

For

Rakesh Sharma

Report No. 25500000864



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TEST REPORT

Report No./ULR No.	25600000865	Date	19-06-2025
Issued To	M.S. Hindusthan Zinc Limited, Kayad Mines, Village Kayad, District Amber, Rajasthan	Type of Job	Analysis
Type of sample Discipline	Ambient Noise Level Monitoring - Chemical	Date of Sample Collection/Monitoring	14-06-2025
Point of Collection	N1 North West Corner of Mine Boundary	Date of Report	19-06-2025
Date of Test/Analysis	16-06-2025 to 19-06-2025	Sampling Plan	TTH Noise 01
Quantity of Sample	-	Sample Collected By	Rakesh Sharma
Unit's representative	Mr. Prakash Sharma	Condition of Sample	Fitted testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules 1986
1	Noise Level (Day Time): Leq [dB(A)]	63.9	IS 9989	75
2	Noise Level (Night Time): Leq [dB(A)]	54.7	IS 9989	65

Notes

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- # The samples are to be kept in the laboratory for the purpose of the test only.

Senior Analyst

Anurag Mai Yogi

Authorized Signatory

Report No.: 25600000865



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TEST REPORT

Report No./UIP No.	2460000866	Date	19/06/2025
Issued To	M. J. Industries Zee Limited, Rajgarh C-100, Rajgarh Industrial Area, Rajasthan	Type of Unit	Minor
Type of sample Discipline	Ambient Noise (Leq) Monitoring (Intermittent)	Date of Sample Collection Monitoring	14/06/2025
Point of Collection	Near Road Side Towards Railway Road	Date of Receipt	14/06/2025
Date of Test/Analysis	15/06/2025 to 19/06/2025	Sampling Plan	TT-NCISE-01
Quantity of Sample	-	Sample Collected By	Rakesh Sharma
Unit's representative	Mr. Prakash Sharma	Condition of Sample	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)]	64.7	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	55.2	IS 9989	65

Note

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Senior Analyst

A. Bhargava Sekhri
Report No.: 2460000866



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TEST REPORT

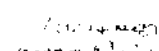
Report No./ULR No.	2560000867	Date	19-06-2025
Issued To	M S Hindusthan Zinc Limited (Kailash Mines Village Kasad, District Amer, Rajasthan)	Type of Test	Minor
Type of sample / Discipline	Ambient Noise Level Monitoring (Chemical)	Date of Sample Collection/Monitoring	14-06-2025
Point of Collection	Nb South East Corner	Date of Receipt	16-06-2025
Date of Test Analysis	16-06-2025 to 19-06-2025	Sampling Plan	TYPE-NOISE 01
Quantity of Sample	-	Sample Collected By	Rakesh Sharma
Unit's representative	Mr. Prakash Sharma	Condition of Sample	For testing

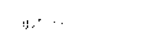
RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time): Leq [dB(A)]	60.6	IS 9989	75
2	Noise Level (Night Time): Leq [dB(A)]	54.4	IS 9989	65

Notes

- The results are valid only for the material and process sampled. No guarantee is given for the future samples.
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- The sample was not kept under laboratory conditions for a long period. Hence, the results are not valid.


Senior Analyst


Authorized Signatory
Report No. 2560000867



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TEST REPORT

Report No. / LTR No.	25600000858	Date	19/07/2021
Issued To	M/S. Hindustan Zinc Limited (Kalya Village, District, Jaipur, Rajasthan)	Type of Test	Minor
Topic/Sample Description	Ambient Noise Level Monitoring (Noise)	Date of Sample Collection/Monitoring	19/07/2021
Point of Collection	Kalya Village (Lat: 24.41 N, Long: 73.83 E)	Date of Receipt	19/07/2021
Date of Test Analysis	19/06/2021 to 19/06/2021	Sampling Plan	IS 9989 (1)
Quantity of Sample		Sample Collected By	Rakesh, Sharma
Unit's Representative	Mr. Rakesh 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)]	50.3	IS 9989	55
2	Noise Level (Night Time) - Leq [dB(A)]	39.3	IS 9989	45

Notes

- The test is conducted in accordance with the IS 9989 (1) standard.
- The test is conducted in accordance with the IS 9989 (1) standard.
- The test is conducted in accordance with the IS 9989 (1) standard.
- The test is conducted in accordance with the IS 9989 (1) standard.

Signature
Senior Analyst

Signature
Rakesh Sharma
Authorized Signatory
(Report No. 25600000858)



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TEST REPORT

Report No./ULR No	25600000859	Date	16-06-2025
Issued To	M/S Hindustan Zinc Limited, Kalled Miner (Village Kayad, District Amer, Rajasthan)	Type of test	Minor
Type of sample Discipline	Ambient Noise Level Monitoring - Chemical	Date of Sample Collection/Monitoring	13-06-2025
Point of Collection	Chhaga Village (200m to NW corner of E.L)	Date of Receipt	16-06-2025
Date of Test Analysis	16-06-2025 to 19-06-2025	Sampling Plan	TTH NOISE/01
Quantity of Sample	-	Sample Collected By	Prakash Sharma
Unit's representative	Mr Prakash Sharma	Condition of Sample	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)]	51.6	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	38.4	IS 9989	45

Notes :

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- The sample should be tested within 10 days of the date of collection. The sample should be stored in a cool, dry place.

Senior Analyst

YOGI

Authorized Signatory

Report No: 25600000859



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E-mail : marketing@teamtesthouse.com

TEST REPORT

Report No./LR No.	256000030860	Date	19-06-2025
Issued To	M. S. H. Dushan, Zim-T, P.O. Kalyan, M. S. Road, Kalyan, District Amber, Rajasthan	Type of Unit	Mines
Type of sample / Discipline	Ambient Noise Level Monitoring - Chemical	Date of Sample Collection / Monitoring	13-06-2025
Point of Collection	Gadwara Village, 26°41'44"N, 74°12'11"E	Date of Receipt	18-06-2025
Date of Test Analysis	18-06-2025 to 19-06-2025	Sampling Plan	TEH-NOISE-01
Quantity of Sample		Sample Collected By	Rakesh Sharma
Unit's representative	Mr. Prakash Sharma	Condition of Sample	Field testing

RESULTS

S No	Parameters	Measured Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) - Leq [dB(A)]	51.1	IS 9989	55
2	Noise Level (Night Time) - Leq [dB(A)]	40.1	IS 9989	45

Note:

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- The test results are valid only for the purpose for which the test was conducted and are not to be used for any other purpose.

Signature
Senior Analyst

Signature
Authorized Signatory
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Amal : market@teamtesthouse.com

TEST REPORT

Report No./ULR No	25600000861	Date	19-06-2025
Issued To :	M/S Hindustan Zinc Limited - Kayari Mines Village Kayari, District Ajmer (Rajasthan)	Type of Unit	Motor
Type of sample / Discipline	Ambient Noise Level Monitoring - Chemical	Date of Sample Collection / Month / Yr	14-June-2025
Point of Collection	near sub station	Date of Receipt	16-06-2025
Date of Test/Analysis	16-06-2025 to 19-06-2025	Sampling Plan	TTT-NOISE/01
Quantity of Sample	-	Sample Collected By	Prakash Sharma
Unit's representative	Mr Prakash Sharma	Condition of Sample	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)]	63.9	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	54.7	IS 9989	65

Notes:

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Senior Analyst

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

TEST REPORT

Report No./UIR No.	25600001383	Date	14/01/25
Issued To	M/S Hindustan Zinc Limited, Kaya Mines, Village Kaya, District Anjar, Rajasthan.	Type of Test	Noise
Type of sample Discipline	Ambient Noise Level Monitoring - Thermo	Date of Sample Collection Monitoring	18/01/25
Point of Collection	N ^o South West Corner of Mine Boundary	Date of Receipt	14/01/25
Date of Test/Analysis	17/01/2025 to 18/01/2025	Sampling Plan	IS 9989
Quantity of Sample	-	Sample Collected By	Prabhu yogi
Unit's representative	Mr. Prakash Sharma	Condition of Sample	As is/As being

RESULTS

S No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	65.1	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	56.3	IS 9989	65

Notes

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Senior Analyst

Authorised Signatory
 (Report No. 25600001383)



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TEST REPORT

Report No./TIR No.	256/0001082	Date	15.07.2025
Issued To	M/S Hindustani Zinc Limited - Kavan Mines - Village Kavan - District Amber (Rajasthan)	Type of Unit	Mine
Type of sample Discipline	Ambient Noise Level Monitoring - Noise	Date of Sample Collection/ Monitoring	14-07-2025
Point of Collection	N2 East Side Boundary Near West Dump	Date of Receipt	15.07.2025
Date of Test/Analysis	14-07-2025 to 16-07-2025	Sampling Plan	17% N, 15% D*
Quantity of Sample		Sample Collected By	Prakash 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): Leq [dB(A)]	60.5	IS 9989	75
2	Noise Level (Night Time): Leq [dB(A)]	54.7	IS 9989	65

Notes

- * The results listed refer only to the tested sample (N/A) parameters. Exceedance of parameters by the sample is indicated.
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Senior Analyst

Authorized Signatory
Reg. No. : 256/0001082



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TEST REPORT

Report No./CR No.	2560001083	Date	16-07-2025
Issued To	M/S Hindusthan Zinc Limited, Kariad Mines, village Kariad, District Amer, Rajasthan.	Type of Unit	Mines
Type of sample / Discipline	Ambient Noise Level Monitoring (Track 1)	Date of Sample Collection/Monitoring	05-07-2025
Point of Collection	N North East Corner of Mine Boundary	Date of Receipt	11-07-2025
Date of Test Analysis	11-07-2025 to 16-07-2025	Sampling Plan	TEAM-NOISE-01
Quantity of Sample		Sample Collected By	Prakash Vogi
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)]	61.7	IS 9989	75
2	Noise Level (Night Time): Leq [dB(A)]	52.5	IS 9989	65

Notes

- * The results are intended only for the test sample and are not to be used for any other purpose, without the consent of the laboratory.
- * The report is not to be used as a legal document. It is not to be used for any other purpose without the consent of the laboratory.
- * The sample is not to be used for any other purpose without the consent of the laboratory.

Senior Analyst

Authorized Signatory
 Report No: 2560001083



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TEST REPORT

Report No./ULR No.	25600001084	Date	16/7/2025
Issued To	M/S Hindustan Zinc Limited (Kavadi Mines), Village Kavadi, District Amber, Rajasthan	Type of Unit	Mines
Type of sample Discipline	Ambient Noise Level Monitoring - One hour	Date of Sample Collection Monitoring	16/07/2025
Point of Collection	44 North West Corner of Mine Boundary	Date of Receipt	11/07/2025
Date of Test/Analysis	11-07-2025 to 16-07-2025	Sampling Plan	TEH NOISE 01
Quantity of Sample	-	Sample Collected By	Prakash yog
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)]	65.2	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	56.1	IS 9989	65

Notes :-

- # The results are given only for the tested sample(s) & parameter(s). Endorsement of product is neither given nor implied.
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Senior Analyst

Authorized Signatory

Ref : No. 25600001084



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TEST REPORT

Report No./ULR No	25600001086	Date	14-07-2025
Issued To	M/S Hindusthan Zinc Limited, Karaj Mines Village Karaj, District Amer, Rajasthan	Type of Job	Noise
Type of sample Discipline	Ambient Noise Level Monitoring (Environmental)	Date of Sample Collection Monitoring	14-07-2025
Point of Collection	NB South East Corner	Date of Receipt	14-07-2025
Date of Test/Analysis	14-07-2025 to 16-07-2025	Sampling Plan	TTH NOISE 01
Quantity of Sample		Sample Collector	Prakash 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): Leq [dB(A)]	65.7	IS 9989	75
2	Noise Level (Night Time): Leq [dB(A)]	50.7	IS 9989	65

Notes

- The measurement was taken in accordance with the Indian Standard IS 9989:1989.
- The measurement was taken in accordance with the Indian Standard IS 9989:1989.
- The measurement was taken in accordance with the Indian Standard IS 9989:1989.
- The measurement was taken in accordance with the Indian Standard IS 9989:1989.

Senior Analyst

Authorized Signatory

14-07-2025



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TEST REPORT

Report No./ULR No.	25600001077	Date	16-07-2025
Issued To	M/S Hindustan Zinc Limited (Kavadi Mines) Village Kavadi, District Alwar (Rajasthan)	Type of Unit	Mines
Type of sample Discipline	Ambient Noise Level Monitoring - Thermal	Date of Sample Collection/Monitoring	16-07-2025
Point of Collection	Kavadi Village, [26°31'44"N 74°11'34"E]	Date of Receipt	16-07-2025
Date of Test/Analysis	16-07-2025 to 16-07-2025	Sampling Plan	TTM-Noise-01
Quantity of Sample		Sample Collected By	Pranlal yogi
Unit's representative	Mr. Prakash Sharma	Condition of Sample	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)]	51.5	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	41.8	IS 9989	45

Notes:

- # This report is valid only for the tested sample. No endorsement of products is neither intended nor implied.
- # This report is not to be reproduced wholly or in part without the written evidence in the court of law and it is not to be used in any manner not intended by the issuing agency.
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[Signature]
Senior Analyst
Date: 16-07-2025

[Signature]
Authorized Signatory
Report No.: 25600001077



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TEST REPORT

Report No./ULR No. :	25600001078	Date	16-7-2025
Issued To	M/S Hindustan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan)	Type of Unit :	Labes
Type of sample - Discipline :	Ambient Noise Level Monitoring - Chemical	Date of Sample Collection Monitoring	16-7-2025
Point of Collection	Lohagal Village [26°31'08.7"N 74°09'07"E]	Date of Receipt	16-7-2025
Date of Test/Analysis	11-07-2025 to 16-07-2025	Sampling Plan	1TH-NOISE/01
Quantity of Sample :		Sample Collected By	Pranav yogi
Unit's representative	M. Prakash Sharma	Condition of Sample	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)]	52.7	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	40.5	IS 9989	45

Notes :-

- # The results listed refer only to the tested sample & its parameters. No endorsement of product is made or implied.
- # This report is to be reproduced without modification. Any use without evidence of the validity of the report is not to be used in any advertisement or with our specific permission.
- # The sample will be destroyed after the test is completed. The test report will be destroyed after the test is completed.

Puran Mehta
Senior Analyst

Adarsh
Authorized Signatory
(Report No. 25600001078)



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TEST REPORT

Report No./ULR No.	25600001079	Date :	16-07-2025
Issued To	M/S Hindusthan Zinc Limited (Kavadi Mines) Village Kavadi, District Amer, Rajasthan	Type of Job	Meas
Type of sample Discipline	Ambient Noise Level Monitoring - Environmental	Date of Sample Collection/Monitoring	16-07-2025
Point of Collection	Sagwana Village [26°31'44.4"N / 74°48'20.1"E]	Date of Receipt	16-07-2025
Date of Test/Analysis	11-07-2025 to 16-07-2025	Sampling Plan	TTTH-NOISE/01
Quantity of Sample	-	Sample Collected By	Pranish yogi
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)]	53.3	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	42.2	IS 9989	45

Notes :

- The presence of foreign particles in the tested sample is not acceptable. Endorsement of procedure is not applicable.
- This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law and should not be used in any affidavit or in any affidavit or in any affidavit or in any affidavit.
- The sample should be kept for 12 days from the date of receipt of report unless otherwise specified.

Signature
Senior Analyst, Yogi

Signature
Authorized Signatory

(Report No.: 25600001079)



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TEST REPORT

Report No./ULR No.	25600001080	Date	14-07-2025
Issued To	M/S Hindustan Zinc Limited (Kajadi Mines) Village Kajadi, District Ajmer (Rajasthan)	Type of Unit	Miner
Type of sample Discipline	Ambient Noise Level Monitoring - Chemical	Date of Sample Collection Monitoring	14-07-2025
Point of Collection	Chatri Village (26°33'52" N, 74°42'48" E)	Date of Receipt	14-07-2025
Date of Test/Analysis	14-07-2025 to 16-07-2025	Sampling Plan	EN 60959:01
Quantity of Sample :		Sample Collected By	Prakash Singh
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)]	49.1	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	40.7	IS 9989	45

Notes

- # The results may refer only to the tested sample and may not be representative of products or materials in general.
- # This report is to be kept intact, wholly or partially, as evidence in case of any dispute or litigation and shall not be used for any advertisement or other special purpose without written consent.
- # The samples will be destroyed after 15 days from the receipt of the test report unless otherwise specified.

Pooja Singh
Senior Analyst

Dr. Pooja Singh
Authorized Signatory
Report No. : 25600001080



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TEST REPORT

Report No./UI R No.	25600001264	Date	14-08-2025
Issued To	M/S Hindustan Zinc Limited, Kayad Mines - village Kayad, District Ajmer, Rajasthan	Type of Unit	Mines
Type of sample Discipline	Ambient Noise Level Monitoring - General	Date of Sample Collection Monitoring	14-08-2025
Point of Collection	N1 South West Corner of Mine Boundary	Date of Receipt	07-08-2025
Date of Test Analysis	07-08-2025 to 14-08-2025	Sampling Plan	TIN-NOISE-01
Quantity of Sample	-	Sample Collected By	Shri. Anil Singh
Unit's representative	Mr. Prakash Sharma	Condition of Sample	For Test only

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules 1986
1	Noise Level (Day Time) : Leq [dB(A)]	60.3	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	51.2	IS 9989	65

Notes :-

- # The result of this test is valid for the test duration only. The test is subject to change if there is any change in the test conditions.
- # This report is not to be used for any other purpose than the one for which it was issued. The user of this report is responsible for its use.
- # The sample should be preserved in the original container and should be kept in a cool and dry place.

Senior Analyst

Authorized Signatory
(Report No. 25600001264)





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TEST REPORT

Report No./ULR No.:	25600001266	Date:	14-08-2025
Issued To:	M. S. Hindusthan Zinc Limited (Private Mines), Village Kayad, District Ganganagar, Rajasthan.	Type of Unit:	Mine
Type of sample / Discipline:	Ambient Noise Level Monitoring - Environmental	Date of Sample Collection-Monitoring:	13-08-2025
Point of Collection:	N3 North East Corner of Mine Boundary	Date of Report:	14-08-2025
Date of Test/Analysis:	07-08-2025 to 14-08-2025	Sampling Plan:	THE NCISE-01
Quantity of Sample:	-	Sample Collected By:	Suman Jangid
Unit's representative:	Mr. Prakash Sharma	Condition of Sample:	Fine Testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time): Leq [dB(A)]	62.4	IS 9989	75
2	Noise Level (Night Time): Leq [dB(A)]	53.3	IS 9989	65

Notes:-

- # The results of this report are to be in English and Hindi. English version shall prevail in case of any conflict.
- # This report shall be the property of the client. It shall not be used without the prior written permission of the client. The client shall indemnify the laboratory for any legal action taken by the client against the laboratory.
- # The client shall be responsible for the accuracy of the data provided in the report. The laboratory shall not be held responsible for any errors or omissions in the report.

PURAN K. JANGID
Senior Analyst

Authorised Signatory
Report No. 25600001266



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TEST REPORT

Report Number No	2560001267	Date	14-06-2025
Issued To	M/S Hindustan Zinc Limited, Kaveri Mines, Village Kaveri, District Ajmer, Rajasthan	Type of Unit	Mines
Type of Sample Discipline	Ambient Noise Level Monitoring - General	Date of Sample Collection/Monitoring	08-08-2025
Point of Collection	N4 North West Corner of Mine Boundary	Date of Receipt	04-08-2025
Date of Test/Analysis	17-09-2025 to 14-10-2025	Sampling Plan	TTT-N4-SF-01
Quantity of Sample		Sample Collected By	Sitaram Singh
Unit's representative	Mr. Prakash Sharma	Condition of Sample	F+K Testing

RESULTS

S No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	60.8	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	51.7	IS 9989	65

Notes :-

- The results shown are only for the test sample(s) as per the sampling method of the test as described above.
- The report is valid only for the test sample(s) as per the sampling method of the test as described above.
- The sampling method is as per the sampling method of the test as described above.
- The sampling method is as per the sampling method of the test as described above.

Senior Analyst

Authorized Signatory
Report No. 2560001267



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TEST REPORT

Report No./ULR No.:	25600001268	Date	13.08.2025
Issued To	M/S Hindusthan Zinc Limited, Kavad Mines, Village Kavad, District Amer, Rajasthan	Type of Test	Noise
Type of sample Discipline	Ambient Noise Level Monitoring (Continuous)	Date of Sample Collection/Monitoring	13.08.2025
Point of Collection	N5 West Side Towards Kavad Village	Date of Receipt	13.08.2025
Date of Test/Analysis	07-08-2025 to 14-08-2025	Sampling Plan	TYPE NOISE-01
Quantity of Sample	-	Sample Collected By	Shantanu Singh
Unit's representative	M. Prakash Sharma	Condition of Sample	Fitted 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

- # The report is prepared by the test house as per the request of the client and is not to be used for any other purpose.
- # The report is not to be used for any other purpose without the written consent of the test house.
- # The samples are to be destroyed after 15 days from the date of receipt of the report unless otherwise specified.

Senior Analyst

Author and Signatory
Report No.: 25600001268



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TEST REPORT

Report No./LR No.	2560001269	Date :	14-06-2025
Issued To	M.S. Hindusthan Zinc Limited (Kavadi Mines) (Kavadi, District Amer, Rajasthan)	Type of Unit	Mines
Type of Sample Discipline	Ambient Noise (Ae. Monitoring) - Remote	Date of Sample Collection Monitoring	05-06-2025
Point of Collection	North East Corner	Date of Receipt	12-06-25
Date of Test/Analysis	07-08-2025 to 14-08-2025	Sampling Plan	170-NOISE-01
Quantity of Sample		Sample Collected By	Satnam Jangid
Unit's representative	Mr. Prakash Sharma	Condition of Sample	Not Testing

RESULTS

S No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time): Leq [dB(A)]	64.7	IS 9989	75
2	Noise Level (Night Time): Leq [dB(A)]	55.2	IS 9989	65

Notes :-

- The results are related to the test of compliance with the limits of exposure. The study of the test is not implied.
- This report is not to be regarded as a license to operate. It is issued as per the request of the client and is not to be used for any other purpose.
- The sample is not to be used for any other purpose.

Senior Analyst

Authorized Signatory
(Report No. 2560001269)



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TEST REPORT

Report No./ULR No.	25600001366	Date	22-09-2025
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	11-09-2025 11:30 to 12-09-2025 11:30
Point of Collection	Kayad Village [26°31'44" N, 74°41'16" E]	Date of Receipt	15-09-2025
Date of Test/Analysis :	15-09-2025 to 19-09-2025	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) : Leq [dB(A)]	52.7	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	43.9	IS 9989	45

Notes

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11.5.1
Puran Choudhary
Senior Analyst

11.5.1
Rakesh Maheshwar
Authorized Signatory
(Report No. 25600001366)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No.	25600001367	Date	22-09-2025
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	11-09-2025 11:32 to 12-09-2025 11:32
Point of Collection	Lohagal Village [26°31'06.7"N, 74°39'30.8"E]	Date of Receipt	15-09-2025
Date of Test/Analysis	15-09-2025 to 19-09-2025	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) : Leq [dB(A)]	51.8	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	42.5	IS 9989	45

Notes :-

- The results listed refer only to the tested sample(s) & parameters(s). Endorsement of products is neither inferred nor implied.
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Senior Analyst

Authorized Signatory
(Report No. 25600001367)



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TEST REPORT

Report No./ULR No. :	25600001368	Date	22-09-2025
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	11-09-2025 11:33 to 12-09-2025 11:33
Point of Collection	Gagwana Village [26°31'44.4"N, 74°43'23.1"E]	Date of Receipt :	15-09-2025
Date of Test/Analysis :	15-09-2025 to 19-09-2025	Sampling Plan	TT-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) : Leq [dB(A)]	51.9	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	40.7	IS 9989	45

Notes :

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Senior Analyst


Authorized Signatory
(Report No. 25600001368)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No.	25600001369	Date	22-09-2025
Issued To	M/S Hindustan Zinc Limited (Kavadi Mines) Village Kavadi, District Ajmer (Rajasthan)	Type of Unit	Mines
Type of sample Discipline	Ambient Noise Level Monitoring (Chemical)	Date of Sample Collection Monitoring	11-09-2025 11:34 to 12-09-2025 11:35
Point of Collection	near sub station	Date of Receipt	15-09-2025
Date of Test/Analysis	15-09-2025 to 19-09-2025	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): Leq [dB(A)]	57.8	IS 9989	75
2	Noise Level (Night Time): Leq [dB(A)]	48.2	IS 9989	65

Notes :-

- # The results listed refer only to the tested sample(s) & parameters only. Endorsement of products is neither inferred nor implied.
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Puran Maheshwar
Senior Analyst

Rajesh Maheshwar
Authorized Signatory
(Report No: 25600001369)



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TEST REPORT

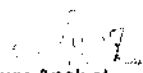
Report No./ULR No.	25600001370	Date	22-09-2025
Issued To	M/S Hindustan Zinc Limited (Kayad Mines) Village Kayad District Ajmer (Rajasthan)	Type of Unit	Mines
Type of sample Discipline	Ambient Noise Level Monitoring (Chemical)	Date of Sample Collection Monitoring	11-09-2025 11:36 to 12-09-2025 11:36
Point of Collection	N1 South West Corner of Mine Boundary	Date of Receipt	15-09-2025
Date of Test/Analysis	15-09-2025 to 19-09-2025	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) : Leq [dB(A)]	61.3	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	50.6	IS 9989	65

Notes :-

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Senior Analyst


Authorized Signatory
Report No. 25600001370



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TEST REPORT

Report No./ULR No	25600001371	Date	22-09-2025
Issued To	M/S Hindustan Zinc Limited (Kavadi Mines) Village Kavadi, District Ajmer (Rajasthan).	Type of Unit	Mines
Type of sample Discipline	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection Monitoring	12-09-2025 11:37 to 13-09-2025 11:37
Point of Collection	N2 East Side Boundary Near West Dump	Date of Receipt	15-09-2025
Date of Test/Analysis	15-09-2025 to 19-09-2025	Sampling Plan	TTH/NOISE/01
Quantity of Sample	-	Sample Collected By	Rakesh Sharma
Unit's representative	Mr. Prakash Sharma	Condition of Sample	Fitted 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)]	58.5	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	50.2	IS 9989	65

Notes :

- # The results listed refer only to the tested samples & parameters as such. Endorsement of products is neither intended nor implied.
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Senior Analyst

Authorized Signatory
(Report No. 25600001371)



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TEST REPORT

Report No./ULR No.	25600001372	Date	22-09-2025
Issued To	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad District Aymer (Rajasthan)	Type of Unit	Mines
Type of sample / Discipline	Ambient Noise Level Monitoring (Chemical)	Date of Sample Collection/Monitoring	12-09-2025 11:39 to 13-09-2025 11:39
Point of Collection	N3 North East Corner of Mine Boundary	Date of Receipt	15-09-2025
Date of Test/Analysis	15-09-2025 to 19-09-2025	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

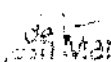
RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time): Leq [dB(A)]	63.5	IS 9989	75
2	Noise Level (Night Time): Leq [dB(A)]	52.8	IS 9989	65

Notes :-

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Senior Analyst


Authorized Signatory
(Report No. 25600001372)



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TEST REPORT

Report No./ULR No. :	25600001373	Date :	22-09-2025
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	12-09-2025 11:40 to 13-09-2025 11:40
Point of Collection :	N4 North West Corner of Mine Boundary	Date of Receipt :	15-09-2025
Date of Test/Analysis :	15-09-2025 to 19-09-2025	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) : Leq [dB(A)]	57.8	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	48.3	IS 9989	65

Notes :-

- # The results listed refer only to the tested sample(s). A parameter is not an endorsement of products is neither inferred nor implied.
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Senior Analyst

Authorized Signatory

(Report No: 25600001373)



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TEST REPORT

Report No./ULR No. :	25600001374	Date	22-09-2025
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	12-09-2025 11:43 to 13-09-2025 11:43
Point of Collection	N5 West Side Towards Kayad Village	Date of Receipt	15-09-2025
Date of Test/Analysis :	15-09-2025 to 19-09-2025	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) : Leq [dB(A)]	56.1	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	47.5	IS 9989	65

Notes :-

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Senior Analyst


Authorized Signatory
(Report No: 25600001374)



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

TEST REPORT

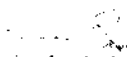
Report No./ULR No.	25600001375	Date :	22-09-2025
Issued To	M.S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit	Mines
Type of sample Discipline :	Ambient Noise Level Monitoring (Chemical)	Date of Sample Collection/Monitoring	12-09-2025 11:45 to 13-09-2025 11:45
Point of Collection	N6 South East Corner	Date of Receipt :	15-09-2025
Date of Test/Analysis	15-09-2025 to 19-09-2025	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) : Leq [dB(A)]	61.7	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	52.8	IS 9989	65

Notes :-

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Senior Analyst


Rajesh Maheshwar
Authorized Signatory
(Report No. 25600001375)

HINDUSTAN ZINC LIMITED

KAYAD MINE

MINE WATER ANALYSIS REPORT (April-25 to September-25)																				Annexure-III			
Parametre / Month	TDS	TS	Suspended solids	Cynide	Hardness	pH	Arsenic	Cadmium	Cobalt	Copper	Iron	Lead	Mercury	Nickel	Zinc	Alkalinity	Magnesium	Chloride	Sulphate				
Apr-25	3958.00	3986.00	28.00	<0.04	903.85	7.32	<0.01	<0.01	<0.01	<0.05	<0.50	<0.01	<0.01	0.47	2.67	74.16	69.05	459.86	752.82				
May-25	3873.00	3907.00	34.00	<0.04	854.37	7.19	<0.01	<0.01	<0.01	<0.05	<0.50	<0.5	<0.01	0.34	2.37	83.20	61.75	418.03	709.55				
Jun-25	3860.00	3888.00	28.00	<0.04	784.31	7.23	<0.01	<0.01	<0.01	<0.05	<0.50	<0.01	<0.01	0.08	2.67	65.92	71.84	389.52	695.76				
Jul-25	3921.00	3952.00	31.00	<0.04	914.29	7.16	<0.01	<0.01	0.09	<0.05	<0.50	0.05	<0.01	0.19	3.26	72.00	63.18	492.93	677.81				
Aug-25	3824.00	3853.00	29.00	<0.04	865.38	7.29	<0.01	<0.01	0.09	0.11	<0.50	<0.01	<0.01	0.15	2.96	86.52	70.09	459.43	646.55				
Sep-25	3893.00	3916.00	23.00	<0.04	504.85	7.14	<0.01	<0.01	<0.01	0.14	<0.50	<0.01	<0.01	0.18	2.61	103	84.93	488.15	693.55				

Except pH all data in mg/l

Hindustan zinc limited

Kayad mines

Mine Pond pH & Turbidity (Apr-25 to Sept)												Annexure-III(A)			
Month	pH	Turbidity	Month	pH	Turbidity	Month	pH	Turbidity	Month	pH	Turbidity	Month	pH	Turbidity	
01/04/2025	5.2	7.9	01/05/2025	7.6	3.4	01/06/2025	8.0	6.7	01/07/2025	8.1	7.8	01/08/2025	7.3	7.0	5.8
02/04/2025	6.2	7.3	02/05/2025	7.7	4.6	02/06/2025	8.0	6.5	02/07/2025	8.0	6.6	02/08/2025	7.5	6.9	5.8
03/04/2025	7.6	5.6	03/05/2025	7.7	4.8	03/06/2025	8.0	7.3	03/07/2025	7.9	5.8	03/08/2025	7.2	7.0	4.7
04/04/2025	6.4	4.8	04/05/2025	7.8	3.7	04/06/2025	8.1	6.7	04/07/2025	7.9	6.7	04/08/2025	6.9	7.1	4.8
05/04/2025	7.5	5.9	05/05/2025	7.8	5.7	05/06/2025	8.1	6.6	05/07/2025	7.7	6.4	05/08/2025	7.1	7.2	4.2
06/04/2025	7.6	5.7	06/05/2025	7.7	5.2	06/06/2025	7.9	5.8	06/07/2025	7.6	7.1	06/08/2025	6.8	7.3	6.8
07/04/2025	7.6	5.9	07/05/2025	7.8	5.5	07/06/2025	8.1	5.8	07/07/2025	7.8	7.5	07/08/2025	6.5	7.1	7.1
08/04/2025	7.6	5.8	08/05/2025	7.2	4.2	08/06/2025	8.1	4.7	08/07/2025	8.0	6.9	08/08/2025	6.8	7.2	6.7
09/04/2025	7.9	5.8	09/05/2025	6.3	4.9	09/06/2025	8.0	4.8	09/07/2025	7.8	5.2	09/08/2025	6.9	7.3	6.4
10/04/2025	7.5	4.7	10/05/2025	6.8	6.1	10/06/2025	8.0	6.9	10/07/2025	8.0	5.5	10/08/2025	6.9	6.8	7.1
11/04/2025	7.8	4.8	11/05/2025	6.1	6.5	11/06/2025	8.1	6.7	11/07/2025	8.1	4.2	11/08/2025	6.8	6.9	7.5
12/04/2025	8.4	4.2	12/05/2025	5.9	6.9	12/06/2025	8.0	4.7	12/07/2025	8.2	5.8	12/08/2025	7.1	6.7	6.9
13/04/2025	8.7	4.2	13/05/2025	5.4	6.3	13/06/2025	8.1	4.8	13/07/2025	8.0	4.7	13/08/2025	6.7	6.6	6.7
14/04/2025	8.5	3.1	14/05/2025	5.1	6.8	14/06/2025	8.1	7.5	14/07/2025	8.0	4.8	14/08/2025	7.0	6.2	6.6
15/04/2025	7.8	3.9	15/05/2025	2.9	7.4	15/06/2025	8.2	6.2	15/07/2025	7.9	4.2	15/08/2025	6.7	7.2	5.8
16/04/2025	7.6	7.4	16/05/2025	6.8	7.2	16/06/2025	8.2	5.3	16/07/2025	7.9	5.3	16/08/2025	6.5	7.4	5.8
17/04/2025	7.6	7.1	17/05/2025	7.1	6.9	17/06/2025	8.1	5.1	17/07/2025	7.8	7.4	17/08/2025	7.3	6.5	4.7
18/04/2025	7.7	7.8	18/05/2025	7.5	6.3	18/06/2025	7.9	5.1	18/07/2025	7.9	6.2	18/08/2025	7.5	7.2	4.8
19/04/2025	7.8	6.8	19/05/2025	7.7	5.7	19/06/2025	7.8	5.4	19/07/2025	7.9	7.1	19/08/2025	7.2	7.2	7.5
20/04/2025	7.9	2.4	20/05/2025	6.9	5.7	20/06/2025	7.9	5.9	20/07/2025	7.7	7.2	20/08/2025	7.1	7.2	6.2
21/04/2025	7.8	3.4	21/05/2025	5.5	5.8	21/06/2025	7.8	7.1	21/07/2025	7.6	5.1	21/08/2025	7.1	6.7	7.4
22/04/2025	7.8	5.4	22/05/2025	6.8	5.3	22/06/2025	7.7	7.8	22/07/2025	7.8	6.8	22/08/2025	7.0	6.9	7.4
23/04/2025	7.7	6.8	23/05/2025	7.7	5.1	23/06/2025	8.0	6.8	23/07/2025	7.7	2.4	23/08/2025	7.1	6.8	7.1
24/04/2025	7.7	7.2	24/05/2025	7.9	5.1	24/06/2025	8.0	2.4	24/07/2025	7.7	3.4	24/08/2025	7.1	6.4	7.2
25/04/2025	7.7	7.5	25/05/2025	8.0	5.4	25/06/2025	8.0	3.4	25/07/2025	7.7	5.7	25/08/2025	6.9	6.9	7.3
26/04/2025	7.5	7.9	26/05/2025	7.9	5.9	26/06/2025	7.9	5.4	26/07/2025	7.5	5.8	26/08/2025	6.9	6.5	6.4
27/04/2025	7.8	8.2	27/05/2025	7.9	6.7	27/06/2025	7.9	7.9	27/07/2025	7.4	5.3	27/08/2025	7.3	5.9	6.9
28/04/2025	7.8	8.4	28/05/2025	7.7	6.3	28/06/2025	8.2	8.2	28/07/2025	7.5	5.1	28/08/2025	6.6	5.4	6.5
29/04/2025	7.6	6.3	29/05/2025	8.0	7.5	29/06/2025	8.0	8.4	29/07/2025	7.5	5.1	29/08/2025	6.8	6.2	5.9
30/04/2025	7.5	6.8	30/05/2025	8.1	5.5	30/06/2025	8.1	6.3	30/07/2025	7.4	7.9	30/08/2025	6.8	5.6	5.6
			31/05/2025	8.2	6.4				31/07/2025	7.3	5.8	31/08/2025	6.6	5.3	

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TEST REPORT

Report No./ULR No.	25200000440	Date	22-04-2025
Issued To	M/S Hindustan 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	10-04-2025
Point of Collection	Mine Water-1st	Date of Receipt	12-04-2025
Date of Test Analysis	12-04-2025 to 22-04-2025	Sampling Plan	APHA 2017 - 1060
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	Limits as per Environment protection rules, 1986
1	Total Dissolved Solids [mg/l]	3958	2540- C , APHA 24th Edition	Not Specified
2	Total Solids [mg/l]	3986	2540-B , APHA 24th Edition	-
3	Total Suspended Solids [mg/l]	28	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]	903.85	2340- C , APHA 24th Edition	-
6	pH	7.32	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]	0.47	3111-B, APHA 24th Edition	3.0
15	Zinc [mg/l]	2.67	3111-B, APHA 24th Edition	5.0
16	Alkalinity - T [mg/l]	74.16	2320-B , APHA 24th Edition	-
17	Magnesium [mg/l]	69.85	3500-Mg-B , APHA 24th Edition	-

Notes

The results shown here apply only to the tested sample. It is not a representation of performance of a test. It is neither inferred nor implied.

Sunil Kumar

Rajesh Maheshwar



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TEST REPORT

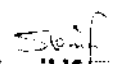
Report No./ULR No. :	200000440	Date :	22-04-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit	Mines
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	10-04-2025
Point of Collection :	Mine Water-1st	Date of Receipt :	12-04-2025
Date of Test/Analysis	12-04-2025 to 22-04-2025	Sampling Plan	APHA 2017 : 1060
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	Limits as per Environment protection rules, 1986
18	Chloride as Cl (mg/l)	459.86	4500- Cl- B , APHA 24th Edition	-
19	Sulphate (mg/l)	752.82	4500-SO4-E , APHA 24th Edition	Not Specified

Notes :-

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Sachin Kumar


Rakesh M. Sureshwar
(Report No. 200000440)



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TEST REPORT

Report No./ULR No.	25200000567	Date	20-05-2025
Issued To	M/S Hindustan 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 :	09-05-2025
Point of Collection	Mine Water-1st	Date of Receipt :	13-05-2025
Date of Test/Analysis :	13-05-2025 to 20-05-2025	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]	3873	2540- C , APHA 24th Edition	Not Specified
2	Total Solids [mg/l]	3907	2540-B , APHA 24th Edition	-
3	Total Suspended Solids [mg/l]	34	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]	854.37	2340- C , APHA 24th Edition	-
6	pH	7.19	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]	0.34	3111-B, APHA 24th Edition	3.0
15	Zinc [mg/l]	2.37	3111-B, APHA 24th Edition	5.0
16	Alkalinity - T [mg/l]	83.2	2320-B , APHA 24th Edition	-
17	Magnesium [mg/l]	61.75	3500-Mg-B , APHA 24th Edition	-

Notes -

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[Signature]

Rajesh Malleshwar



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TEST REPORT

Report No./ULR No. :	200000567	Date :	20-05-2025
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 :	09-05-2025
Point of Collection	Mine Water-1st	Date of Receipt	13-05-2025
Date of Test/Analysis :	13-05-2025 to 20-05-2025	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]	418.03	4500- Cl- B , APHA 24th Edition	-
19	Sulphate [mg/l]	709.55	4500-SO4-E , APHA 24th Edition	Not Specified

Notes :-

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Sunil Kumar


Rajesh Maheshwari
Authorized Signatory
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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No. / L.R. No.	25200000690	Date	25-06-2025
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	14-06-2025
Point of Collection	Mine Water-1st	Date of Receipt	16-06-2025
Date of Test/Analysis	18-06-2025 to 25-06-2025	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]	3860	2540- C, APHA 24th Edition	Not Specified
2	Total Solids [mg/l]	3888	2540-B, APHA 24th Edition	-
3	Total Suspended Solids [mg/l]	28	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]	784.31	2340- C, APHA 24th Edition	-
6	pH	7.23	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]	2.62	3111-B, APHA 24th Edition	5.0
16	Alkalinity - T [mg/l]	65.92	2320-B, APHA 24th Edition	-
17	Magnesium [mg/l]	71.84	None	-

Notes

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Sandeep Kumar

Rajesh Maheshwari



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TEST REPORT

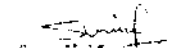
Report No./ULR No. :	200000690	Date	25-06-2025
Issued To	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Aimer (Rajasthan)	Type of Unit	Mines
Type of sample / Discipline	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring	14-06-2025
Point of Collection	Mine Water-1st	Date of Receipt	16-06-2025
Date of Test/Analysis :	16-06-2025 to 25-06-2025	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

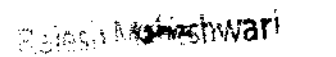
RESULTS

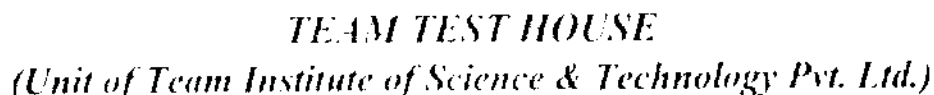
S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules 1986
18	Chloride as Cl ⁻ (mg/l)	389.52	4500- Cl- B , APHA 24th Edition	-
19	Sulphate (mg/l)	695.76	4500-SO4-E , APHA 24th Edition	Not Specified

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Sukh Kumar


Rakesh Sharma
Authorized Signatory
(Report No. 200000690)



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Per
Ajesh Mathew



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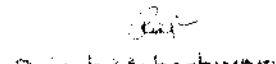
RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
16	Nickel [mg/l]	0.19	3111-B, APHA 24th Edition	3.0
17	Zinc [mg/l]	3.26	3111-B, APHA 24th Edition	5.0
18	Alkalinity - T [mg/l]	72	2320-B, APHA 24th Edition	-
19	Magnesium [mg/l]	63.18	3500-Mg-B, APHA 24th Edition	-

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Praveen Kumar
Senior Analyst


Rajesh Maheshwari
Authorized Signatory

(Report No. 252000000831)



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TEST REPORT

Report No /ULR No.	25200000928	Date	19-08-2025
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	06-08-2025
Point of Collection	Mine Water-1st	Date of Receipt	07-08-2025
Date of Test/Analysis	07-08-2025 to 19-08-2025	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]	3824	2540- C , APHA 24th Edition	Not Specified
2	Total Solids [mg/l]	3853	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]	865.38	2340- C , APHA 24th Edition	-
6	pH	7.29	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]	0.11	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]	0.15	3111-B, APHA 24th Edition	3.0
15	Zinc [mg/l]	2.96	3111-B, APHA 24th Edition	5.0
16	Alkalinity - T [mg/l]	86.52	2320-B , APHA 24th Edition	-
17	Magnesium [mg/l]	70.09	3500-Mg-B , APHA 24th Edition	-

Notes

The results are given only for the tested items and do not constitute any endorsement of products or any other material or equipment.



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Email : marketinglab@teamtesthouse.com

TEST REPORT

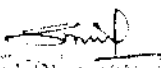
Report No./ULR No.	200000928	Date	19-08-2025
Issued To	M/S Hindustan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit	Mines
Type of sample + Discipline	Liquid Effluents + Chemical	Date of Sample Collection/Monitoring	06-08-2025
Point of Collection	Mine Water-1st	Date of Receipt	07-08-2025
Date of Test/Analysis	07-08-2025 to 19-08-2025	Sampling Plan	APHA 2017 - 1060
Quantity of Sample	2 Ltr	Sample Collected By	Sitaran, Jangid
Unit's representative	Mr Prakash Sharma	Condition of Sample	Fit for testing

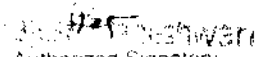
RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
18	Chloride as Cl (mg/l)	459.43	4500-Cl-B APHA 24th Edition	-
19	Sulphate (mg/l)	646.55	4500-SO4-E APHA 24th Edition	Not Specified

Notes :-

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Senior Analyst


Authorized Signatory
(Report No. 200000928)



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TEST REPORT

Report No./ULR No.	25200001055	Date	23-09-2025
Issued To	M/S Hindustan Zinc Limited (Kayad Mines) Village Kayad, District Amer (Rajasthan)	Type of Unit	Mines
Type of sample : Discipline	Liquid Effluents - Chemical	Date of Sample Collection Monitoring	13-09-2025
Point of Collection	Mine Water-1st	Date of Receipt	15-09-2025
Date of Test/Analysis	15-09-2025 to 23-09-2025	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]	3893	2540- C , APHA 24th Edition	Not Specified
2	Total Solids [mg/l]	3916	2540-B , APHA 24th Edition	-
3	Total Suspended Solids [mg/l]	23	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]	504.85	2340- C APHA 24th Edition	-
6	pH	7.14	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]	0.14	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]	0.18	3111-B, APHA 24th Edition	3.0
15	Zinc [mg/l]	2.01	3111-B, APHA 24th Edition	5.0
16	Alkalinity - T [mg/l]	103	2320-B , APHA 24th Edition	-
17	Magnesium [mg/l]	84.93	3500-Mg-B , APHA 24th Edition	-

Notes :-

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TEST REPORT

Report No./ULR No.	200001055	Date	23-09-2025
Issued To	M/S Hirdusthan 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	13-09-2025
Point of Collection	Mine Water-1st	Date of Receipt	15-09-2025
Date of Test/Analysis	15-09-2025 to 23-09-2025	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)	488.15	4500-Cl-B . APHA 24th Edition	-
19	Sulphate (mg/l)	693.55	4500-SO4-E . APHA 24th Edition	Not Specified

Notes :-

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Suraj Kumar
Senior Analyst

Arun K. K.
Authorized Signatory
(Report No. 200001055)

Hindustan Zinc Limited										
Kayad Mine										
Water Level of Piezometers & Open Wells (Apr-25 to Sept-25)										
S.No	Source Code	Latitude	Longitude	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Annexure-IV	
1	P-1	N26°31'44.1"	E74°41'19.2"	17.6	16	14.9	11.4	9.5	7.3	Sep-25
2	P-2	N26°31'56.9"	E74°41'41.1"	17.2	15.6	13.7	11.7	10.9	9.1	
3	P-3	N26°32'10.0"	E74°41'44.4"	8.2	7.1	6.4	6.2	5.8	5.2	
4	P-4	26°32'02.0"	74°41'45.2"	20.2	19.8	17.4	14.3	11.2	10.9	
5	P-5	26°31'40.3"	74°41'29.1"	9.1	8.8	7.8	6.8	5.4	4.8	
6	W-1	N26°33'25.7"	E74°41'45.9"	15.8	14.5	12.8	8.4	4.2	1.3	
7	W-2	N26°32'48.6"	E74°42'24.8"	16.9	15.1	13.7	8.9	3.9	1.5	
8	W-3	N26°32'08.3"	E74°42'27.7"	17.3	17	14.5	7.4	3.7	2.8	
9	W-4	N26°31'11.7"	E74°41'02.7"	17.2	16.8	13.8	6.9	4.9	3.2	
10	W-5	N26°31'52.7"	E74°41'36.0"	15.8	15.5	11.4	5.3	4.7	3	
11	W-6	N26°31'38.7"	E74°41'11.3"	17.8	17.2	15.3	9.4	4.1	1.9	

(Letve in Metres)

Hindustan Zinc Limited

Kayad Mine

Piezowell Monitoring Report (April-25 to Sept-25)										
Piezometers Code	P-1		P-2		P-3		P-4		Annexure-V(A)	
	Piezometer-1, near VTC- HZL		Near mine dumped area, HZL fuel pump		Plantation area, nursery, near other collapsed bore well		New drilled bore well, near ANFO Mixing plant, HZL boundary wall corner		New drilled bore well, DG Set area	
Parameter	May-25	Aug-25	May-25	Aug-25	May-25	Aug-25	May-25	Aug-25	May-25	Aug-25
Ph	6.94	8.17	7.03	8.09	7.29	7.88	7.42	7.78	7.92	7.80
Hardness	1431.37	1372.55	1764.71	1392.16	2705.88	2745.10	1450.88	1803.92	2000.00	2117.65
Iron	0.06	0.04	<0.01	<0.01	0.10	0.13	0.07	0.09	0.08	0.06
TDS	3192.00	2425.00	5065.00	2546.00	7653.00	7715.00	3240.00	5762.00	5683.00	6776.00
Copper	0.02	0.03	<0.01	<0.01	0.03	0.04	0.02	0.04	0.03	0.05
Sulphate	355.18	316.19	520.60	472.90	2027.36	2249.30	1043.56	2170.40	1407.13	1642.30
Cadmium	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Lead	0.03	0.02	<0.01	<0.01	0.07	0.05	0.04	0.03	0.05	0.04
Zinc	0.11	0.14	<0.01	<0.01	0.02	0.05	0.06	0.09	0.02	0.03
Alkalinity	583.20	501.80	450.30	347.40	340.20	347.40	571.05	607.95	340.20	434.25
Cynide	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
TSS	36.00	52.00	43.00	72.00	132.00	154.00	43.00	57.00	216.00	119.00
Cobalt	<0.05	<0.05	<0.05	<0.05	0.06	0.08	<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	880.58	831.66	1382.55	856.12	2690.66	2641.73	905.04	1051.80	1956.84	2005.76
Total Solid	3228.00	2477.00	5108.00	2618.00	7785.00	7869.00	3283.00	5819.00	5899.00	6895.00

pt pH all data in mg/l



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TEST REPORT

Report No./ULR No. :	25100000513	Date	31-05-2025
Issued To	M/S Hindustan Zinc Limited (Kayad Mines) Village Kayad, District Amer (Rajasthan)	Type of Unit	Mines
Type of sample - Discipline :	Ground Water Surface water - Chemical	Date of Sample Collection/Monitoring	08-05-2025
Point of Collection	PW - 1	Date of Receipt	13-05-2025
Date of Test/Analysis :	13-05-2025 to 30-05-2025	Sampling Plan :	IS 3025:1987/Part 1:RA 2014
Quantity of Sample :	2 ltr	Sample Collected By	Sataram Jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	6.94	IS 3025 (Part 11) : 1983 RA 2017
2	Total Hardness [mg/l]	1431.37	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	0.06	IS 3025 (Part 53) : 2003 RA 2019
4	Chloride [mg/l]	880.58	IS 3025 (Part 32) : 1988 RA 2019
5	Total Dissolved Solids [mg/l]	3192	IS 3025 (Part 16) : 1984 RA 2017
6	Copper [mg/l]	0.02	IS 3025 (Part 42) : 1992 RA 2019
7	Sulphate [mg/l]	355.18	IS 3025 (Part 24) : 1986 RA 2019
8	Cadmium [mg/l]	Less than 0.001	IS 3025 (Part 41) : 1992 RA 2019
9	Lead [mg/l]	0.03	IS 3025 (Part 47) : 1994 RA 2019
10	Zinc [mg/l]	0.11	IS 3025 (Part 49) : 1994 RA 2019

Note

Continue to next page

(As)
Rajesh Maheshwari



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Email : marketinglab@teamtesthouse.com

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
11	Alkalinity - T (mg/l)	583.2	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)	46	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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Signature
Bafam Analysis

Signature
Rajesh Maheshwari
Authorized Signatory
(Report No. 25100000513)



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TEST REPORT

Report No./ULR No.	100000513	Date	31-05-2025
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	06-05-2025
Point of Collection	PW - 1	Date of Receipt	13-05-2025
Date of Test/Analysis	13-05-2025 to 30-05-2025	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	Ft for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
16	Total Solids [mg/l]	3228	IS 3025 (part 15) 1984 RA 2019

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Balram Agarwal
Senior Analyst

Balram Agarwal
Authorized Signatory
(Report No. 100000513)



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TEST REPORT

Report No./ULR No. :	25100000514	Date	02-06-2025
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 / Chemicals	Date of Sample Collection-Monitoring	08-05-2025
Point of Collection	PW - 2	Date of Receipt	13-05-2025
Date of Test/Analysis :	13-05-2025 to 02-06-2025	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	Ft for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.03	IS 3025 (Part 11) : 1983 RA 2017
2	Total Hardness [mg/l]	1764.71	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]	1382.55	IS 3025 (Part 32) : 1988 RA 2019
5	Total Dissolved Solids [mg/l]	5065	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]	520.6	IS 3025 (Part 24) : 1986 RA 2019
8	Cadmium [mg/l]	Less than 0.001	IS 3025 (Part 41) : 1992 RA 2019
9	Lead [mg/l]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019
10	Zinc [mg/l]	Less than 0.01	IS 3025 (Part 49) : 1994 RA 2019

Note

Continue to next page

Rajesh Maheshwari
Rajesh Maheshwari



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

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
11	Alkalinity - T [mg/l]	450.3	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]	43	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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Ralram Agarwal
Senior Analyst

Raiesh Maheshwar
Authorized Signatory
(Report No. 25100000514)



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TEST REPORT

Report No./ULR No. :	100000514	Date :	02-06-2025
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	06-05-2025
Point of Collection :	PW - 2	Date of Receipt	13-05-2025
Date of Test/Analysis :	13-05-2025 to 02-06-2025	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	Fil for testing

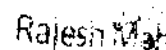
RESULTS

S.No	Parameters	Observed Value	Testing Protocol
16	Total Solids [mg/l]	5168	IS 3025 (part 15) : 1984 RA 2019

Notes :-

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Balram Agarwal
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: 100000514)



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TEST REPORT

Report No./ULR No. :	25100000515	Date	31-05-2025
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	08-05-2025
Point of Collection	PW - 3	Date of Receipt	15-05-2025
Date of Test/Analysis :	13-05-2025 to 30-05-2025	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	7.29	IS 3025 (Part 11) : 1983 RA 2017
2	Total Hardness [mg/l]	2705.88	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	0.10	IS 3025 (Part 53) : 2003 RA 2019
4	Total Dissolved Solids [mg/l]	7653	IS 3025 (Part 16) : 1984 RA 2017
5	Copper [mg/l]	0.03	IS 3025 (Part 42) : 1992 RA 2019
6	Cadmium [mg/l]	Less than 0.001	IS 3025 (Part 41) : 1992 RA 2019
7	Lead [mg/l]	0.07	IS 3025 (Part 47) : 1994 RA 2019
8	Zinc [mg/l]	0.02	IS 3025 (Part 49) : 1994 RA 2019
9	Alkalinity - T [mg/l]	340.2	IS 3025 (Part 23) : 1986 RA 2019
10	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019

Note

Continue to next page.

2/3

Rajesh Maheshwar



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Email : marketinglab@teamtesthouse.com

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
11	Total Suspended Solids (mg/l)	132	IS 3025 (Part 17) : 1984 RA 2017
12	Cobalt (mg/l)	0.06	3113 -B , APHA 24th Edition
13	Nickel (mg/l)	Less than 0.01	IS 3025 (Part 54) : 2003 RA 2019

Notes :

- The results, figures and data for the tested sample is a confidential information and use of products is the responsibility of the user.
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Balram Agarwal
Senior Analyst

Rajesh Acharya
Authorized Signatory

(Report No. 25100000515)



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TEST REPORT

Report No./ULR No.	100000515	Date :	31-05-2025
Issued To	M S Hindustan Zinc Limited (Kayad Mines), Village Kayad, District Amer, (Rajasthan)	Type of Unit	Mines
Type of sample / Discipline	Ground Water Surface water / Chemical	Date of Sample Collection / Monitoring	08-05-2025
Point of Collection	PW - 3	Date of Receipt	13-05-2025
Date of Test/Analysis	13-05-2025 to 30-05-2025	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
14	Chloride [mg/l]	2690.66	IS 3025 (Part 32) : 1988 RA 2019
15	Sulphate [mg/l]	2027.36	IS 3025 (Part 24) : 1986 RA 2019
16	Total Solids [mg/l]	7785	IS 3025 (part 15) : 1984 RA 2019

Notes :-

- The results listed refer only to the tested sample(s) as presented in the endorsement of products in the test report not intended.
- This report is valid only for the purpose for which it is issued. It is not valid for any other purpose. It is not to be used as a basis for any legal action.
- The samples will be destroyed after 10 days from the date of issue of test report unless the client specifies otherwise.

Bakam Agarwal
Bakam Agarwal
Senior Analyst

Rajesh Maheshwari
Rajesh Maheshwari
Authorized Signatory
(Report No. 100000515)



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TEST REPORT

Report No./UIR No	25100000516	Date :	31-05-2025
Issued To	M/S Hindusthan Zinc Limited (Kavard Mines) Village Kayad, District Aimer (Rajasthan)	Type of Unit :	Mines
Type of sample / Discipline	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring	08-05-2025
Point of Collection	PW - 4	Date of Report	13-05-2025
Date of Test/Analysis :	*3-05-2025 to 30-05-2025	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	7.42	IS 3025 (Part 11) : 1983 RA 2017
2	Total Hardness [mg/l]	1450.98	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	0.07	IS 3025 (Part 53) : 2003 RA 2019
4	Chloride [mg/l]	905.04	IS 3025 (Part 32) : 1988 RA 2019
5	Total Dissolved Solids [mg/l]	3240	IS 3025 (Part 16) : 1984 RA 2017
6	Copper [mg/l]	0.02	IS 3025 (Part 42) : 1992 RA 2019
7	Sulphate [mg/l]	1043.56	IS 3025 (Part 24) : 1986 RA 2019
8	Cadmium [mg/l]	Less than 0.001	IS 3025 (Part 41) : 1992 RA 2019
9	Lead [mg/l]	0.04	IS 3025 (Part 47) : 1994 RA 2019
10	Zinc [mg/l]	0.06	IS 3025 (Part 49) : 1994 RA 2019

Note.

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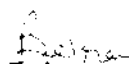
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Phone : +91 9460212039, 9460222049,
Email : director@teamtesthouse.com,
marketinglab@teamtesthouse.com

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
11	Alkalinity - T (mg/l)	571.05	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)	43	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 :-

- # The results listed refer only to the tested sample(s) & parameters. Endorsement of products is not intended nor implied.
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Balram Agarwal
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No. 25100000516)



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TEST REPORT

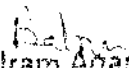
Report No./ULR No.	100000516	Date :	31-05-2025
Issued To	M/S Hindustan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan)	Type of Unit	Mines
Type of sample / Discipline	Ground Water Surface water - Chemical	Date of Sample Collection/Monitoring	08-05-2025
Point of Collection	PW - 4	Date of Receipt	13-05-2025
Date of Test/Analysis	13-05-2025 to 30-05-2025	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
16	Total Solids (mg/l)	3283	IS 3025 (part 15) : 1984 RA 2019

Notes :-

- # The results stated refer only to the tested sample. No parameters or under-estimation of products is neither inferred nor implied.
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Balram Agarwal
Senior Analyst


Rajesh Maheshwar
Authorized Signatory

(Report No: 100000516)



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TEST REPORT

Report No./ULR No. :	25100000519	Date	31-05-2025
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	08-05-2025
Point of Collection	PW - 5	Date of Receipt	13-05-2025
Date of Test/Analysis	13-05-2025 to 30-05-2025	Sampling Plan :	IS 3025 1987(Part 1)RA 2014
Quantity of Sample	2 ltr	Sample Collected By	Starans jangid
Unit's representative	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.92	IS 3025 (Part 11) : 1983 RA 2017
2	Total Hardness [mg/l]	2000	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	0.08	IS 3025 (Part 53) : 2003 RA 2019
4	Total Dissolved Solids [mg/l]	5683	IS 3025 (Part 16) : 1984 RA 2017
5	Copper [mg/l]	0.03	IS 3025 (Part 42) : 1992 RA 2019
6	Sulphate [mg/l]	1407.13	IS 3025 (Part 24) : 1986 RA 2019
7	Cadmium [mg/l]	Less than 0.001	IS 3025 (Part 41) : 1992 RA 2019
8	Lead [mg/l]	0.05	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]	340.2	IS 3025 (Part 23) : 1986 RA 2019

Note

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Rajesh Maheshwar



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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)	216	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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Rajam Agarwal
Senior Analyst

Rajesh Maheshwar
Authorized Signatory
(Report No: 25100000519)



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TEST REPORT

Report No./ULR No	100000519	Date :	31-05-2025
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	08-05-2025
Point of Collection :	PW - 5	Date of Receipt	13-05-2025
Date of Test/Analysis :	13-05-2025 to 30-05-2025	Sampling Plan	IS 3025:1987(Part 1):RA 2014
Quantity of Sample	2 ltr	Sample Collected By	Satranjand
Unit's representative :	Mr Prakash Sharma	Condition of Sample	Ft for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
15	Chloride (mg/l)	1956.84	IS 3025 (Part 32) : 1988 RA 2019
16	Total Solids (mg/l)	5899	IS 3025 (part 15) : 1984 RA 2019

Notes :-

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Balram Agarwal
Senior Analyst

Rajesh Maheshwar
Authorized Signatory
(Report No. 100000519)



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TEST REPORT

Report No./UI R No.	2510000937	Date :	12-09-2025
Issued To	M/S Hindustan Zinc Limited (Kayad Mines), Village Kayad, District Amer, Rajasthan	Type of Unit :	Mines
Type of sample Discipline	Ground Water Surface water - Chemical	Date of Sample Collection-Monitoring	05-09-2025
Point of Collection	PW - 1	Date of Report	08-09-2025
Date of Test/Analysis :	08-08-2025 to 12-09-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Lit	Sample Collected By	Sitaram Singh
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	F1 for testing

RESULTS

S No	Parameters	Observed Value	Testing Protocol
1	pH	8.17	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]	0.04	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]	2425	IS 3025 (Part 16) : 1984 RA 2017
6	Copper [mg/l]	0.03	IS 3025 (Part 42) : 1992 RA 2019
7	Sulphate [mg/l]	316.19	IS 3025 (Part 24) : 1986 RA 2019
8	Cadmium [mg/l]	Less than 0.001	3113 -B , APHA 24th Edition
9	Lead [mg/l]	0.02	IS 3025 (Part 47) : 1994 RA 2019
10	Zinc [mg/l]	0.14	IS 3025 (Part 49) : 1994 RA 2019

Note

(Continue to next page.)

Rajesh Maheshwari



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marketinglab@teamtesthouse.com

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
11	Alkalinity - T [mg/l]	50 ± 8	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]	52	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 Agarwal
Senior Analyst

Rajesh Mishra
(Report No. 25100000937)



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TEST REPORT

Report No /ULR No	100000937	Date	12-09-2025
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	05-06-2025
Point of Collection	PW - 1	Date of Receipt	08-08-2025
Date of Test/Analysis	08-08-2025 to 12-09-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample	2 Ltr	Sample Collected By	Sitaram Jangid
Unit's representative	M. Prakash Sharma	Condition of Sample	Fair for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
16	Total Solids [mg/l]	2477	IS 3025 (part 15) : 1984 RA 2019

Notes

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Balram

Balram Agarwal

Rajesh Maheshwari
Authorized Signatory

(Report No. 100000937)



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

TEST REPORT

Report No./UI R No. :	25100000938	Date	12-09-2025
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	06-08-2025
Point of Collection	PW - 2	Date of Receipt	08-08-2025
Date of Test/Analysis	08-08-2025 to 12-09-2025	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	F1 for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	8.09	IS 3025 (Part 11) : 1983 RA 2017
2	Total Hardness [mg/l]	1392.16	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]	856.12	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]	472.9	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]	Less than 0.01	IS 3025 (Part 49) : 1994 RA 2019

Note:

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Email : marketing@teamtesthouse.com

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
11	Alkalinity - T [mg/l]	347.4	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]	73	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 :-

- # The results shown here are only for the listed sample. No claim is made for performance of products as better information is implied.
- # This report should be kept as a confidential document and should not be used in the court of law and should not be used in any advertisement without the written permission of our firm.
- # The samples should be received after 15 days from the date of issue of test report, unless otherwise specified.

Rajesh Arora
Senior Analyst

Rajesh Mareshwari
Authorized Signatory
(Report No: 25100000938)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	100000938	Date :	12-09-2025
Issued To :	M/S Hindustan Zinc Limited (Kayad Mines) Village Kayad, District Ajer (Rajasthan)	Type of Unit	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	06-08-2025
Point of Collection	PW - 2	Date of Receipt	08-08-2025
Date of Test/Analysis :	08-08-2025 to 12-09-2025	Sampling Plan	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Sdaram Agard
Unit's representative :	Mr Prakash Sharma	Condition of Sample	F : for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
16	Total Solids [mg/l]	2618	IS 3025 (part 15) : 1984 RA 2019

Notes :

- The results given refer only to the tested sample, test & parameters. Endorsement of products is neither intended nor implied.
- This report is not to be reproduced wholly or in part and can not be used by anyone in the court of law. It can not be used in any advertising media without our special permission in writing.
- The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Sdram Agarwal
Senior Analyst

Rajesh Maheshwar
Authorized Signatory
(Report No. 100000938)



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TEST REPORT

Report No./LR No.	2510000939	Date	12-09-2025
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	05-08-2025
Point of Collection	FW-3	Date of Receipt	08-08-2025
Date of Test Analysis	08-08-2025 to 12-09-2025	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	7.88	IS 3025 (Part 11) : 1983 RA 2017
2	Total Hardness [mg/l]	2745.1	IS 3025 (Part 21) : 2009 RA 2019
3	Total Dissolved Solids [mg/l]	7715	IS 3025 (Part 16) : 1984 RA 2017
4	Copper [mg/l]	0.04	IS 3025 (Part 42) : 1992 RA 2019
5	Cadmium [mg/l]	Less than 0.001	3113-B, APHA 24th Edition
6	Lead [mg/l]	0.05	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]	347.4	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]	154	IS 3025 (Part 17) : 1984 RA 2017

Note

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Rajesh Maheshwar



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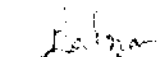
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Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
marketing@teamtesthouse.com

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
11	Cobalt [mg/l]	5.08	3113-B, APHA 24th Edition
12	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003 RA 2019

Notes :-

- # The results listed refer only to the tested sample(s) and does not represent any product or service offered or supplied.
- # This is partial report generated only for the parameters requested. For complete report of all parameters, the client shall advertise media without our special permission in writing.
- # The sample will be destroyed after 15 days from the date of report, for further support, please inform us in writing.


Balram Agarwal
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No. 25100000939)



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TEST REPORT

Report No./ULR No. :	100000939	Date :	12-09-2025
Issued To	M/S Hindustan Zinc Limited (Kayad Mines) Village Kayad, District Amer (Rajasthan)	Type of Unit	Mines
Type of sample / Discipline	Ground Water / Surface water / Other : A	Date of Sample Collection / Monitoring	05-08-2025
Point of Collection	PW - 3	Date of Receipt	05-08-2025
Date of Test/Analysis	08-08-2025 to 12-09-2025	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
13	Iron [mg/l]	0.13	IS 3025 (Part 53) : 2003 RA 2019
14	Chloride [mg/l]	2641.73	IS 3025 (Part 32) : 1988 RA 2019
15	Sulphate [mg/l]	2249.3	IS 3025 (Part 24) : 1986 RA 2019
16	Total Solids [mg/l]	7869	IS 3025 (part 15) : 1984 RA 2019

Notes

- # The results are valid only for the tested samples. A permit to use for any kind of product is not the responsibility of report.
- # The report is not to be regarded as a warranty or a guarantee. It is not to be used as evidence in the court of law and should not be used in any subsequent litigation without the special permission in writing.
- # The samples will be tested only after 15 days from the date of issuance of report unless otherwise specified.

Sitaram Agarwal
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No. : 100000939)



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TEST REPORT

Report No./ULR No.	25100000940	Date	12-09-2025
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	05-08-2025
Point of Collection	PW - 4	Date of Receipt	08-08-2025
Date of Test/Analysis	08-08-2025 to 12-09-2025	Sampling Plan	IS 3025:1987(Part 1)RA 2014
Quantity of Sample	2 Ltr	Sample Collected By	Staransingh
Unit's representative	Mr Prakash Sharma	Condition of Sample	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.78	IS 3025 (Part 11) : 1983 RA 2017
2	Total Hardness [mg/l]	1803.92	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	0.09	IS 3025 (Part 53) : 2003 RA 2019
4	Chloride [mg/l]	1051.8	IS 3025 (Part 32) : 1988 RA 2019
5	Total Dissolved Solids [mg/l]	5762	IS 3025 (Part 16) : 1984 RA 2017
6	Copper [mg/l]	0.04	IS 3025 (Part 42) : 1992 RA 2019
7	Cadmium [mg/l]	Less than 0.001	3113-B, APHA 24th Edition
8	Lead [mg/l]	0.03	IS 3025 (Part 47) : 1994 RA 2019
9	Zinc [mg/l]	0.09	IS 3025 (Part 49) : 1994 RA 2019
10	Alkalinity - T [mg/l]	607.95	IS 3025 (Part 23) : 1986 RA 2019

Note.

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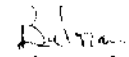
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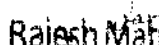
RESULTS

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]	57	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 :-

- # The results listed refer only to the tested sample(s) & parameter(s). Endorsement of products is neither intended nor implied.
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Satram Anwar
Senior Analyst


Rajesh Maheshwar
Authorized Signatory
(Report No. 25100000940)



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TEST REPORT

Report No./ULR No	100000940	Date	12-09-2025
Issued To	M-S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Amrit (Rajasthan)	Type of Unit	Mines
Type of sample / Discipline	Ground Water/Surface water / Chemical	Date of Sample Collection / Monitoring	08-08-2025
Point of Collection	PW - 4	Date of Receipt	08-08-2025
Date of Test/Analysis	08-08-2025 to 12-09-2025	Sampling Plan	IS 3025:1987(Part 1) RA 2019
Quantity of Sample	2 Ltr	Sample Collected By	Sudam Jangid
Unit's representative	Mr. Prakash Sharma	Condition of Sample	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
15	Sulphate [mg/l]	2170.4	IS 3025 (Part 24) : 1986 RA 2019
16	Total Solids [mg/l]	5819	IS 3025 (part 15) : 1984 RA 2019

Notes :-

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Balram Agarwal
Senior Analyst

Rajesh Maheshwar
Authorized Signatory
(Report No. 100000940)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./UIR No.	25160000941	Date	12-09-2025
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	08-08-2025
Point of Collection	PW- 5	Date of Receipt	08/08/2025
Date of Test/Analysis	08-08-2025 to 12-09-2025	Sampling Plan	IS 3025:1987(Part 1)RA 2014
Quantity of Sample	2 Ltr	Sample Collected By	S.aramsingh
Unit's representative	Mr. Prakash Sharma	Condition of Sample	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.80	IS 3025 (Part 11) : 1983 RA 2017
2	Total Hardness [mg/l]	2117.65	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	0.06	IS 3025 (Part 53) : 2003 RA 2019
4	Total Dissolved Solids [mg/l]	6776	IS 3025 (Part 16) : 1984 RA 2017
5	Copper [mg/l]	0.05	IS 3025 (Part 42) : 1992 RA 2019
6	Sulphate [mg/l]	1642.3	IS 3025 (Part 24) : 1986 RA 2019
7	Cadmium [mg/l]	Less than 0.001	3113 -B APHA 24th Edition
8	Lead [mg/l]	0.04	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]	434.25	IS 3025 (Part 23) : 1986 RA 2019

Note

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Rajesh Maheshwari



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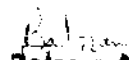
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Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

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


Balram Agarwal
Senior Analyst


Rajesh Maheshwari
(Report No. 25100000941)



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TEST REPORT

Report No./ULR No.	100000941	Date	12-09-2025
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	05-06-2025
Point of Collection	PW - 5	Date of Receipt	08-08-2025
Date of Test/Analysis	08-08-2025 to 12-09-2025	Sampling Plan	IS 3025:1987 (Part 1) RA 2014
Quantity of Sample	2 Ltr	Sample Collected By	Sharan Jangid
Unit's representative	Mr Prakash Sharma	Condition of Sample	F.T for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
15	Chloride [mg/l]	2005.76	IS 3025 (Part 32) : 1988 RA 2019
16	Total Solids [mg/l]	6895	IS 3025 (part 15) : 1984 RA 2019

Notes :

- i. The results will refer only to the sample and parameters mentioned. Endorsement of products is neither intended nor implied.
- ii. The report is not to be reproduced wholly or in part and will not be used as evidence in the court of law and shall not be used in any advertising media without our special permission in writing.
- iii. The samples will be destroyed after 10 days from the date of issue of test report unless otherwise specified.

Balram Agarwal
Senior Analyst

Rajesh Maheshwari
Author and Signatory
(Report No. 100000941)

HINDUSTAN ZINC LIMITED											
KAYAD MINES											
Ground water Analysis Report (Village) (Apr-25 to Sept-25)											
Location Parameter	Kayad Village		Lohagal Village		Gagwana Village		Annexure-V(B)		Chatri Village		
	May-25	Aug-25	May-25	Aug-25	May-25	Aug-25	May-25	Aug-25	May-25	Aug-25	Aug-25
pH	7.52	8.44	7.65	7.52	8.12	7.6	7.1	7.07			
Hardness	362.75	294.12	235.29	225.49	129.41	121.57	254.9	245.1			
Iron	0.02	<0.01	0.03	0.02	<0.01	<0.01	0.06	0.04			
Chloride	195.68	166.33	123.28	119.37	66.04	61.15	278.85	269.07			
TDS	878	652	662	650	363	342	1709	1652			
Magnesium	16.68	14.29	28.59	26.21	9.53	9.05	47.65	42.88			
Copper	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01			
Sulphate	42.55	32.4	63.4	58.55	40.72	35.19	152.86	138.4			
Cadmium	<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			
Lead	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01			
Zinc	<0.01	<0.01	0.03	0.05	<0.01	<0.01	<0.01	<0.01			
Alkalinity	328.05	231.6	212.63	193	179.82	173.7	328.05	260.55			
Mercury	<0.0001	<0.001	<0.0001	<0.001	<0.0001	<0.001	<0.0001	<0.001			
Cynide	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04			
TSS	<10	<10	11	<10	<10	<10	83	12			
Cobalt	<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			
Total Solids	886	656	673	656	369	346	1792	1664			

Except pH all data in mg/l



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TEST REPORT

Report No. / LR No.	25410000509	Date	30-05-2025
Issued To	M/S Hindustan Zinc Limited (Kavay Mines, Village Kavay, District Amrit, Rajasthan)	Type of Unit	Mines
Type of Sample Discipline	Ground Water / Surface water / Other	Date of Sample Collection / Monitoring	18-05-2025
Point of Collection	Village Kavay	Date of Receipt	13-05-2025
Date of Test Analysis	13-05-2025 to 20-05-2025	Sampling Plan	IS 3025:1983 (Part 1) RA 2017
Quantity of Sample	2 ltr	Sample Collected By	Pranav Jangid
Unit's representative	Mr. Prakash Sharma	Condition of Sample	Fitted 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	7.52	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
2	Total Hardness [mg/l]	362.75	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]	195.68	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	278	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	16.68	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]	42.55	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
9	Cadmium [mg/l]	Less than 0.001	IS 3025 (Part 41) : 1992 RA 2019	0.002	-
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]	Less than 0.01	IS 3025 (Part 49) : 1994 RA 2019	5	15



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info@teamtesthouse.com, teamtesthouse.com

S No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit as per IS 10500:2012) (Ex: 100 Max)	Standard Permissible Limit in the absence of alternative Source as per IS 10500:2012
13	Alkalinity - T [mg/l]	328.05	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

- # This report is valid only for the samples received at the laboratory. The results are not valid for the samples received at other locations.
- # The results are valid only for the tested samples. No extrapolation of results is allowed. The results are valid only for the tested samples.
- # This report is not to be used for any other purpose. It is to be used only for the purpose for which it is issued. The results are not valid for any other purpose.
- # The results are not to be used for any other purpose. It is to be used only for the purpose for which it is issued. The results are not valid for any other purpose.

Satish Kumar
Senior Analyst

Satish Kumar
Authorized Signatory
Date: 25/05/2025



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TEST REPORT

Report No./ULR No.	100000509	Date	30-05-2025
Issued To	M/S Hindustan Zinc Limited, Kavad Mines, Village Kavad, District Ajmer (Rajasthan)	Type of Unit	Mines
Type of sample Discipline	Ground Water Surface water - Chemical	Date of Sample Collection Monitoring	08-05-2025
Point of Collection	Village Kavad	Date of Receipt	13-05-2025
Date of Test/Analysis	13-05-2025 to 30-05-2025	Sampling Plan	IS 3025:1987(Part 1)RA 2014
Quantity of Sample	2 lit	Sample Collected By	Staram 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]	886	IS 3025 (part 15) : 1984 RA 2019	-	-

Note:

1. This report is valid only for the purpose for which it was issued and is not to be used for any other purpose.
2. This report is not to be used for any other purpose than the one for which it was issued and is not to be used for any other purpose.
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5. This report is not to be used for any other purpose than the one for which it was issued and is not to be used for any other purpose.

Balram Singh
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 100000509)



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ISO 19011

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TEST REPORT

Report No./L.R. No.	25100000610	Date	2025-05-25
Issued To	M/S Hindusthan Zinc Limited (Kavadi Mines) Village Kavadi, District Ajmer, Rajasthan	Type of Unit	Mines
Type of sample / Discipline	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring	28-05-2025
Point of Collection	Lohagali Village	Date of Report	13-05-2025
Date of Test/Analysis	13-05-2025 to 30-05-2025	Sampling Plan	IS 3025:1993 (Part 1) RA 2019
Quantity of Sample	2 ltr	Sample Collected By	Anuranjan Singh
Unit's representative	Mr. Prakash Sharma	Condition of Sample	Fitted for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2019) 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 2019	6.5 to 8.5	No relaxation
2	Total Hardness [mg/l]	235.29	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
3	Iron [mg/l]	0.05	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
4	Chloride [mg/l]	123.28	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	662	IS 3025 (Part 16) : 1984 RA 2019	500.00	2000.00
6	Magnesium [mg/l]	28.59	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	1.00	1.50
8	Sulphate [mg/l]	63.40	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
9	Cadmium [mg/l]	Less than 0.001	IS 3025 (Part 41) : 1992 RA 2019	0.01	-
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	0.05	-
12	Zinc [mg/l]	0.03	IS 3025 (Part 49) : 1994 RA 2019	5	15



Email: marketinglab@teamentesthouse.com

22. $f(x) = \sin(2013x) \cos(2013x) = \frac{1}{2} \sin(4026x)$. $f'(x) = 2013 \cos(4026x)$. $f'(0) = 2013$. $f'(2013\pi) = -2013$. $f'(4026\pi) = 2013$. $f'(6039\pi) = -2013$. $f'(8052\pi) = 2013$. $f'(10065\pi) = -2013$. $f'(12078\pi) = 2013$. $f'(14091\pi) = -2013$. $f'(16104\pi) = 2013$. $f'(18117\pi) = -2013$. $f'(20130\pi) = 2013$. $f'(22143\pi) = -2013$. $f'(24156\pi) = 2013$. $f'(26169\pi) = -2013$. $f'(28182\pi) = 2013$. $f'(30195\pi) = -2013$. $f'(32208\pi) = 2013$. $f'(34221\pi) = -2013$. $f'(36234\pi) = 2013$. $f'(38247\pi) = -2013$. $f'(40260\pi) = 2013$. $f'(42273\pi) = -2013$. $f'(44286\pi) = 2013$. $f'(46299\pi) = -2013$. $f'(48312\pi) = 2013$. $f'(50325\pi) = -2013$. $f'(52338\pi) = 2013$. $f'(54351\pi) = -2013$. $f'(56364\pi) = 2013$. $f'(58377\pi) = -2013$. $f'(60390\pi) = 2013$. $f'(62403\pi) = -2013$. $f'(64416\pi) = 2013$. $f'(66429\pi) = -2013$. $f'(68442\pi) = 2013$. $f'(70455\pi) = -2013$. $f'(72468\pi) = 2013$. $f'(74481\pi) = -2013$. $f'(76494\pi) = 2013$. $f'(78507\pi) = -2013$. $f'(80520\pi) = 2013$. $f'(82533\pi) = -2013$. $f'(84546\pi) = 2013$. $f'(86559\pi) = -2013$. $f'(88572\pi) = 2013$. $f'(90585\pi) = -2013$. $f'(92598\pi) = 2013$. $f'(94611\pi) = -2013$. $f'(96624\pi) = 2013$. $f'(98637\pi) = -2013$. $f'(100650\pi) = 2013$. $f'(102663\pi) = -2013$. $f'(104676\pi) = 2013$. $f'(106689\pi) = -2013$. $f'(108702\pi) = 2013$. $f'(110715\pi) = -2013$. $f'(112728\pi) = 2013$. $f'(114741\pi) = -2013$. $f'(116754\pi) = 2013$. $f'(118767\pi) = -2013$. $f'(120780\pi) = 2013$. $f'(122793\pi) = -2013$. $f'(124806\pi) = 2013$. $f'(126819\pi) = -2013$. $f'(128832\pi) = 2013$. $f'(130845\pi) = -2013$. $f'(132858\pi) = 2013$. $f'(134871\pi) = -2013$. $f'(136884\pi) = 2013$. $f'(138897\pi) = -2013$. $f'(140910\pi) = 2013$. $f'(142923\pi) = -2013$. $f'(144936\pi) = 2013$. $f'(146949\pi) = -2013$. $f'(148962\pi) = 2013$. $f'(150975\pi) = -2013$. $f'(152988\pi) = 2013$. $f'(154999\pi) = -2013$. $f'(157011\pi) = 2013$. $f'(159023\pi) = -2013$. $f'(161035\pi) = 2013$. $f'(163047\pi) = -2013$. $f'(165059\pi) = 2013$. $f'(167071\pi) = -2013$. $f'(169083\pi) = 2013$. $f'(171095\pi) = -2013$. $f'(173107\pi) = 2013$. $f'(175119\pi) = -2013$. $f'(177131\pi) = 2013$. $f'(179143\pi) = -2013$. $f'(181155\pi) = 2013$. $f'(183167\pi) = -2013$. $f'(185179\pi) = 2013$. $f'(187191\pi) = -2013$. $f'(189203\pi) = 2013$. $f'(191215\pi) = -2013$. $f'(193227\pi) = 2013$. $f'(195239\pi) = -2013$. $f'(197251\pi) = 2013$. $f'(199263\pi) = -2013$. $f'(201275\pi) = 2013$. $f'(203287\pi) = -2013$. $f'(205299\pi) = 2013$. $f'(207311\pi) = -2013$. $f'(209323\pi) = 2013$. $f'(211335\pi) = -2013$. $f'(213347\pi) = 2013$. $f'(215359\pi) = -2013$. $f'(217371\pi) = 2013$. $f'(219383\pi) = -2013$. $f'(221395\pi) = 2013$. $f'(223407\pi) = -2013$. $f'(225419\pi) = 2013$. $f'(227431\pi) = -2013$. $f'(229443\pi) = 2013$. $f'(231455\pi) = -2013$. $f'(233467\pi) = 2013$. $f'(235479\pi) = -2013$. $f'(237491\pi) = 2013$. $f'(239503\pi) = -2013$. $f'(241515\pi) = 2013$. $f'(243527\pi) = -2013$. $f'(245539\pi) = 2013$. $f'(247551\pi) = -2013$. $f'(249563\pi) = 2013$. $f'(251575\pi) = -2013$. $f'(253587\pi) = 2013$. $f'(255599\pi) = -2013$. $f'(257611\pi) = 2013$. $f'(259623\pi) = -2013$. $f'(261635\pi) = 2013$. $f'(263647\pi) = -2013$. $f'(265659\pi) = 2013$. $f'(267671\pi) = -2013$. $f'(269683\pi) = 2013$. $f'(271695\pi) = -2013$. $f'(273707\pi) = 2013$. $f'(275719\pi) = -2013$. $f'(277731\pi) = 2013$. $f'(279743\pi) = -2013$. $f'(281755\pi) = 2013$. $f'(283767\pi) = -2013$. $f'(285779\pi) = 2013$. $f'(287791\pi) = -2013$. $f'(289803\pi) = 2013$. $f'(291815\pi) = -2013$. $f'(293827\pi) = 2013$. $f'(295839\pi) = -2013$. $f'(297851\pi) = 2013$. $f'(299863\pi) = -2013$. $f'(301875\pi) = 2013$. $f'(303887\pi) = -2013$. $f'(305899\pi) = 2013$. $f'(307911\pi) = -2013$. $f'(309923\pi) = 2013$. $f'(311935\pi) = -2013$. $f'(313947\pi) = 2013$. $f'(315959\pi) = -2013$. $f'(317971\pi) = 2013$. $f'(319983\pi) = -2013$. $f'(321995\pi) = 2013$. $f'(324007\pi) = -2013$. $f'(326019\pi) = 2013$. $f'(328031\pi) = -2013$. $f'(330043\pi) = 2013$. $f'(332055\pi) = -2013$. $f'(334067\pi) = 2013$. $f'(336079\pi) = -2013$. $f'(338091\pi) = 2013$. $f'(340103\pi) = -2013$. $f'(342115\pi) = 2013$. $f'(344127\pi) = -2013$. $f'(346139\pi) = 2013$. $f'(348151\pi) = -2013$. $f'(350163\pi) = 2013$. $f'(352175\pi) = -2013$. $f'(354187\pi) = 2013$. $f'(356199\pi) = -2013$. $f'(358211\pi) = 2013$. $f'(360223\pi) = -2013$. $f'(362235\pi) = 2013$. $f'(364247\pi) = -2013$. $f'(366259\pi) = 2013$. $f'(368271\pi) = -2013$. $f'(370283\pi) = 2013$. $f'(372295\pi) = -$

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TEST REPORT

Report No./ULR No	100005510	Date :	30-05-2025
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 :	24-05-2025
Point of Collection :	Lohagal Village	Date of Receipt :	23-05-2025
Date of Test/Analysis :	13-05-2025 to 30-05-2025	Sampling Plan :	IS 3025-1987(Part 1)RA 2014
Quantity of Sample	2 litr	Sample Collected By :	Starim, anand
Unit's representative	Mr. Prakash Sharma	Condition of Sample	Not for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2014) Max	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
19	Total Solids (mg/l)	673	IS 3025 (part 15) : 1984 RA 2014	-	-

Notes

- # The laboratory is not responsible for the results of the analysis if the sample is not properly preserved or if the sample is not representative of the lot.
- # The results are only valid for the test sample as received. No responsibility is accepted for the results of the analysis if the sample is not properly preserved or if the sample is not representative of the lot.
- # The report is only for the purpose of information and is not a legal document. It is not to be used for any other purpose without the special permission of the laboratory.
- # The samples will be stored for 30 days from the date of receipt. After this period, the samples will be disposed of.

Balram Agarwal
Senior Analyst

Rajesh Kumar
Authorized Signatory
Report No. 100005510



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10.10.2019

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TEST REPORT

Report No./ULR No.	25*00000511	Date	30-05-2025
Issued To	M/S Hinguswar Zircon Limited (Karnal Mines), Village Karnal, District Amer (Rajasthan)	Type of Unit	Mines
Type of sample / Discipline	Ground Water Surface water / Chemical	Date of Sample Collection/Monitoring	30-05-2025
Point of Collection	Gagwana Village	Date of Receipt	30-05-2025
Date of Test/Analysis	30-05-2025 to 30-05-2025	Sampling Plan	IS 3025:1987(Part 1)RA 2019
Quantity of Sample	2 Ltr	Sample Collected By	S. Aram Jangid
Client'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	8.12	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
2	Total Hardness [mg/l]	129.41	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]	66.04	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	363	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	1.00	1.50
8	Sulphate [mg/l]	40.72	IS 3025 (Part 24) : 1980 RA 2019	200.00	400.00
9	Cadmium [mg/l]	Less than 0.001	IS 3025 (Part 41) : 1992 RA 2019	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]	Less than 0.01	IS 3025 (Part 49) : 1994 RA 2019	5	15

30/5



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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)	179.80	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

1. The results are reported in the units as mentioned in the table and in the units as prescribed in the respective IS standards.
2. The results listed refer only to the tested samples. It is recommended to fortify samples and retest to confirm the results.
3. This report is not to be republished without prior written permission of the laboratory. The reuse of the report for any other purpose, advertising media without the specific permission is strictly prohibited.
4. The samples will be destroyed after 15 days from the date of receipt of test report unless otherwise specified.

Balram Agarwal
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
Report No. 25100000511



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TEST REPORT

Report No./UIR No.	10000511	Date	3-05-2025
Issued To	M/S Hindustan Zinc Limited (Kavadi Mines) Village Kavadi, District Amrit, Rajasthan	Type of Unit	Client
Type of Sample Discipline	Ground Water Surface water (Drinking)	Date of Sample Collection/Monitoring	13-05-2025
Point of Collection	Gagwana village	Date of Receipt	14-05-2025
Date of Test Analysis	13-05-2025 to 30-05-2025	Sampling Plan	IS 3025 1987(Part 1):RA 2014
Quantity of Sample	2 Ltr	Sample Collected By	Starajjangid
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)	369	IS 3025 (part 15) : 1984 RA 2019	-	-

Remarks

- # The sample was analyzed as per the test protocol of Drinking water. There is no prescribed limit for Solids in drinking water.
- # The results stated in this report are based on the test results for 18 parameters per. Exceedance of parameter is not observed in this report.
- # The report is to be kept for 10 years from the date of issue. It is to be used for the purpose of law and regulation or used in any advertisement or for any other purpose.
- # The report is to be kept for 10 years from the date of issue. It is to be used for the purpose of law and regulation or used in any advertisement or for any other purpose.

Rajesh Arora
Senior Analyst

Rajesh Arora
(Report No. 10000511)



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TEST REPORT

Report No./ULR No.	25100000512	Date :	30-05-2025
Issued To	M/S Hindustan Zinc Limited (Kajadi Mines, Village Kajadi, District Ajmer, Rajasthan)	Type of Unit	Mines
Type of sample / Discipline	Ground Water Surface water / Chemical	Date of Sample Collection Monitoring	18-05-2025
Point of Collection	Chadi Village	Date of Receipt	18-05-2025
Date of Test/Analysis	13-05-2025 to 30-05-2025	Sampling Plan	IS 3025:1987 Part 11 RA 2017
Quantity of Sample	2 ltr	Sample Collected By	Shyam Ladd
Unit's representative	Mr Prakash Sharma	Consent of Sample	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	7.10	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
2	Total Hardness [mg/l]	254.9	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
3	Iron [mg/l]	0.06	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
4	Chloride [mg/l]	278.85	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	1709	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	47.65	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	1.00	1.50
8	Sulphate [mg/l]	152.86	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
9	Cadmium [mg/l]	Less than 0.001	IS 3025 (Part 41) : 1992 RA 2019	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	0.05	-
12	Zinc [mg/l]	Less than 0.01	IS 3025 (Part 49) : 1994 RA 2019	5	15

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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)	328.05	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)	83	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

- The results are valid only for the samples tested. They are not to be used for the purpose of comparison.
- The results are valid only for the samples tested. No guarantee is given for the assessment of products, samples contained there in.
- The results are valid only for the samples tested. No guarantee is given for the use of results in the court of law and should not be used in any other way without the express permission of the lab.
- The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Dr. Anand K. Singh
Senior Analyst

Dr. Anand K. Singh
Report No. 25100000512



INDIAN STANDARDS

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TEST REPORT

Report No./ULR No	100000512	Date	30-05-2025
Issued To	M/S Hindustan Zinc Limited (Kapas Mines, Village Kavad, Dist of Ajmer, Rajasthan)	Type of Unit	Mines
Type of sample Discipline	Ground Water Surface water - Chemical	Date of Sample Collection Monitoring	26-05-2025
Point of Collector	Chaini Village	Date of Report	13-05-2025
Date of Test/Analysis	13-05-2025 to 30-05-2025	Sampling Plan	IS 3025:1984 (Part 1) RA 2018
Quantity of Sample	2 lit	Sample Collected By	Statam 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)	1792	IS 3025 (part 15): 1984 RA 2018		-

Notes:-

- # The results are based as per IS 3025 (part 15): 1984 RA 2018 and are subject to the following conditions:-
- # The results are based on the results of the analysis of the sample as received and are not to be used for any other purpose.
- # The results are based on the results of the analysis of the sample as received and are not to be used for any other purpose.
- # The results are based on the results of the analysis of the sample as received and are not to be used for any other purpose.

Balram Aggarwal
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
Report No.: 100000512



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TEST REPORT

Report No./ULR No.	25150000932	Date	12/09/2025
Issued To	M.S. Hindusthan Zinc Limited (Kavay Mines), Village Kavay, District Ajmer (Rajasthan)	Type of User	Mine
Type of sample Discipline	Ground Water/Surface water / Chemical	Date of Sample Collection-Monitoring	05/08/2025
Point of Collection	Village Kavay	Date of Receipt	08/08/2025
Date of Test Analysis	08-06-2025 to 12-09-2025	Sampling Plan	IS 3025:1987(Part 1) RA 2014
Quantity of Sample	2 Ltr	Sample Collected By	S. Ram, 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	8.44	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
2	Total Hardness [mg/l]	294.12	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]	166.33	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	652	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	14.29	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]	32.40	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]	Loss than 0.01	IS 3025 (Part 49) : 1994 RA 2019	5	15



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S No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2012) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 2012
13	Alkalinity - T [mg/l]	231.6	IS 3125 (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 are drinking water. These are prescribed in the Schedule of the Act.
- # The results listed refer only to the tested sample(s) & parameter(s). No endorsement of products or entities is intended or implied.
- # This report is not to be reproduced wholly or in part and cannot be used for any purpose other than for which it was prepared and should not be used in any advertising media without our special permission in writing.
- # The samples will be destroyed after 15 days from the date of testing, failing which it shall be destroyed on the date specified.

Balram Agarwal
Senior Analyst

Rajesh Mishra
Analyst
(Report No. 2510001955)



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TEST REPORT

Report No. ULR No. :	THHC-00935	Date	12-09-2025
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	05-08-2025
Point of Collection	Village Kayad	Date of Receipt	06-08-2025
Date of Test/Analysis	18-08-2025 to 12-09-2025	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	Fil 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)	656	IS 3025 (part 15) : 1984 RA 2019	-	-

Notes :-

- # All measurements are made by the standard test / sampling method / procedure prescribed for surface / ground water etc.
- # The results shown are only for the tested samples & no warranty is given for untested but products are then intended to be implied.
- # The report is valid only for the purpose stated above & is not valid for any other purpose. The use of law and should not be used in any advertisement or for other purpose without the permission of the writer.
- # The samples were used as such after the payment of the fee of the report, unless otherwise specified.

Sitaram
Sitaram Jangid

Rajesh
Rajesh Maheshwar
 Authorized Signatory

Report No. THHC00935



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TEST REPORT

Report No./ULR No	25100000934	Date	12-09-2025
Issued To	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Amer (Rajasthan)	Type of Unit	Mines
Type of sample : Discipline	Ground Water/Surface water : Chemical	Date of Sample Collection/ Monitor ing	08-08-2025
Point of Collection	Lohagaj Village	Date of Report	08-08-2025
Date of Test Analysis	08-08-2025 to 12-08-2025	Sampling Plan	IS 3025:1987(Part 1)/RA 2019
Quantity of Sample	2 Lit	Sample Collected By	Satam Jangid
Unit's representative	Mr. Prakash Sharma	Condition of Sample	Fine for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2019) : Max	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	pH	7.52	IS 3025 (Part 11) : 1983 RA 2019	6.5 to 8.5	No relaxation
2	Total Hardness [mg/l]	225.49	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]	119.37	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	650	IS 3025 (Part 16) : 1984 RA 2019	500.00	2000.00
6	Magnesium [mg/l]	26.21	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]	58.55	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
9	Cadmium [mg/l]	Less than 0.001	3112-LE : APHA 240 Editor	0.005	-
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	0.05	-
12	Zinc [mg/l]	0.05	IS 3025 (Part 49) : 1994 RA 2019	5	15

Date:



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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)	193	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 :

- Requirement is as per IS 10500 : 2012 for drinking water. There is no prescribed limit for Surface (ground) water.
- The results listed refer only to the tested samples & parameters. No endorsement of products is either intended or implied.
- The equipment used is not reproduced wholly in part and hence no liability on the part of the lab and should not be used in any advertised media without the prior permission in writing.
- The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Dr. Aram Agarwal
Senior Analyst

Rajesh Manishwari
Authorized Signatory
(Report No. 25100000934)



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TEST REPORT

Report No./ULR No.:	100000934	Date	12-08-2025
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	05-08-2025
Point of Collection	Lanagal Village	Date of Receipt	05-08-2025
Date of Test/Analysis	08-08-2025 to 12-09-2025	Sampling Plan	IS 3025-1984 (Part 1) RA 2014
Quantity of Sample	2 Lit	Sample Collected By	Starom, Jangid
Unit's representative	Mr. Prakash Sharma	Condition of Sample	Fitter testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500:2012 (RA 2012) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500:2012
19	Total Solids [mg/l]	656	IS 3025 (part 15): 1984 RA 2019	-	-

Notes:

1. Limits mentioned in per IS 10500:2012 is of Drinking water. There is no prescribed limit for Surface ground water.
2. The results is obtained only in the tested parameters. It is not an endorsement of the quality of the entire water sample.
3. This report is not to be registered with any government authority. It is only a reference to the quality of water sample. It is not a guarantee of the quality of water sample.
4. The sample is not to be used for any other purpose than the one for which it was collected.

Balram Agarwal
Senior Analyst

Rakesh Kisheshwar
Authorized Signatory
(Report No. 100000934)



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TEST REPORT

Report No./ULR No.	25100000935	Date	12-09-2025
Issued To	M/S Hindustan Zinc Limited (Kayad Mines), Village Kayad, District Armer (Rajasthan)	Type of Unit	Days
Type of sample Discipline	Ground Water/Surface water - Chemical	Date of Sample Collection/Monitoring	05-08-2025
Point of Collection	Gagwana Village	Date of Receipt	08-08-2025
Date of Test/Analysis	08-08-2025 to 12-09-2025	Sampling Plan	IS 3025:1987(Part 1)RA 2019
Quantity of Sample	2 Ltr	Sample Collected By	Sharan Jangid
Unit's representative	Mr Prakash Sharma	Condition of Sample	Ft 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	7.60	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
2	Total Hardness [mg/l]	121.57	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]	61.15	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	342	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	9.05	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]	35.10	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]	Less than 0.01	IS 3025 (Part 49) : 1994 RA 2019	5	15



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marketing@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]	173.7	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. These are prescribed for the drinking water quality only.
- # The results listed refer only to the tested sample(s) & parameters. No endorsement of products is either implied or intended.
- # This report is valid for reference & record only and cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Batram Agarwal
Senior Analyst

Rajesh Maheshwar
Authorized Signatory
(Report No: 25100000935)



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TEST REPORT

Report No./ULR No.	100000935	Date	12-09-2025
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	05-08-2025
Point of Collection	Gagwana Village	Date of Receipt	08-08-2025
Date of Test/Analysis	08-08-2025 to 12-09-2025	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)	346	IS 3025 (part 15): 1984 RA 2019	-	-

Notes :-

- # This method is as per IS 10500:2012 for drinking water. There is no prescribed limit for Surface Ground Water only.
- # The results are referred to the tested sample as a whole and not to the interference of individual chemical or mineral impurities.
- # This report can only be reproduced without any part alteration. In the case of alteration in the report of raw data, should not be used in any advertisement, award, or approval of permission or anything.
- # The samples will be destroyed after 15 days from the date of receipt of the report, unless otherwise specified.

Rajesh
Rajesh Agarwal
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory

(Report No. 100000935)



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TEST REPORT

Report No./ULR No	25100000936	Date	11-09-2025
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 / Chhatra	Date of Sample Collection / Monitoring	08-08-2025
Point of Collection	Chhatra Village	Date of Receipt	08-08-2025
Date of Test/Analysis	08-08-2025 to 12-09-2025	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	Fair 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	7.67	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
2	Total Hardness [mg/l]	245.1	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]	269.07	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	1652	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	42.88	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]	136.14	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
9	Cadmium [mg/l]	Less than 0.001	3112-B APHA 24th Edition	0.005	-
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]	Less than 0.01	IS 3025 (Part 49) : 1994 RA 2019	5	15

(Total)



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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]	260.55	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]	12	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

- # Units mentioned as per IS 3025 (Part 17) : 1984 and IS 3025 (Part 23) : 1986 are as per standard for Surface ground water.
- # The results refer to the results of the tested sample. No particular test is endorsement of product or service is implied.
- # This report is not to be reproduced wholly or in part and cannot be used evidence in the court of law and cannot be used in any advertising material without special permission in writing.
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Satish Agnwal
Senior Analyst

Rajesh Maheshwar
(Report No: 25100000936)



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TEST REPORT

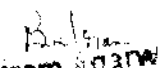
Report No./ULR No. :	100000936	Date :	12-09-2025
Issued To :	M/S Hindustan Zinc Limited (Kayad Mines, Village Kayad, District Ajmer (Rajasthan))	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection / Monitoring :	08-08-2025
Point of Collection :	Chatri Village	Date of Receipt :	08-08-2025
Date of Test/Analysis :	08-08-2025 to 12-09-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	S.aram, Jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

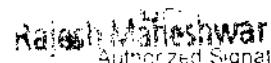
RESULTS

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)	1664	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.
- # The results are referred only to the tested sample(s) & parameter(s). Endorsement of products or the company is implied.
- # This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law and no liability is accepted for advertising purpose without our special permission in writing.
- # The samples will be destroyed after 30 days from the date of issue of test report unless otherwise specified.


Rajaram Agarwal
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
Report No. 100000936



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TEST REPORT

Report No./ULR No.	25100000849	Date :	14-08-2025
Issue: 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	18-07-2025
Point of Collection	Kayad Pond	Date of Report	14-07-2025
Date of Test/Analysis	14-07-2025 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 & (Part 8) : 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)	0.05	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:

Continue to next page.

12
P. Yogi
Prahlad Yogi



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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 2019	0.5	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	0.05	-
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 2019	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

Continue to next page.

Purni Mal Yog:



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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 :-

- # Limits determined as per IS 10500 : 2012 is of Drinking water. There is no prescribed limit for Surface Ground water etc.
- # This results are relevant only to the tested samples. No endorsement of products is either intended or implied.
- # This report is not to be reproduced wholly or in part, nor can it be used as evidence in the court of law and it should not be used in any other way than as a true and correct record of the test results.
- # The validity of the report is void after 12 months from the date of issue of the report unless otherwise specified.

[Signature]
Senior Analyst

[Signature]
Authorized Signatory
(Report No. 25100000849)



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TEST REPORT

Report No./ULR No.	100000849	Date	14-08-2025
Issued To	M/S Hindustan Zinc Limited, Kayad Mines, Village Kayad, District Ajmer, Rajasthan	Type of Unit	Mexis
Type of sample / Discipline	Ground Water Surface water / Chemistry	Date of Sample Collection/Monitoring	15-07-2025
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 yoj
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:

- # The results are as per IS 10500:2012 as applicable with the following exceptions: (a) Surface water sample.
- A The results are as per IS 10500:2012 as applicable with the following exceptions: (a) Surface water sample.
- F The results are as per IS 10500:2012 as applicable with the following exceptions: (a) Surface water sample.
- F The results are as per IS 10500:2012 as applicable with the following exceptions: (a) Surface water sample.
- F The results are as per IS 10500:2012 as applicable with the following exceptions: (a) Surface water sample.

Balram
Balram Agarwal
Senior Analyst

Prahlad
Prahlad
Authorized Signatory / MO
Report No. : 100000849



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TEST REPORT

Report No./JLR No.	25100000849	Date	14-08-2025
Issued To	M/S Haidushtan Zira Limited (Kavay Mines) Village Kavay, 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	Kavay 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	litre	Sample Collected By	Premad yogi
Unit's representative	Mr Prakash Sharma	Condition of Sample	Fitted 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

- Limit of detection is reported as 'Not detectable' when the concentration of the sample is below the detection limit.
- The results interpretation is based on the sample size and the number of samples tested. The results are valid only when the sample size is sufficient to represent the population.
- The report is valid only for the purpose of the test. It is not valid for any other purpose.
- The report is valid only for the purpose of the test. It is not valid for any other purpose.
- The report is valid only for the purpose of the test. It is not valid for any other purpose.

Rajram Agarwal
Senior Analyst

Sushil Khan
Authorized Signatory
(Report No. 25100000849)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No.	25100000850	Date	14-08-2025
Issued To	M/S Hindustan Zinc Limited (Kasab Mines), Village Kayad, District Ajmer (Rajasthan)	Type of Unit	Mines
Type of sample Discipline	Ground Water Surface water - Mineral	Date of Sample Collection-Monitoring	14-07-2025
Point of Collection	Sarwar Talao	Date of Receipt	14-07-2025
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	Pranish yoj
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)	0.32	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 49) : 1991 RA 2019	75.00	200.00

Note

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7/11/25/25

Pranish yoj



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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]	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 2019	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 2019	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	0.05	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:

Continue to next page

Signature
Pooja / An Yogi



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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
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:

- Limit used as per IS 10500:2012 for drinking water. There is no specified limit for Surface water or groundwater.
- The results have reference to the tested sample only. No extrapolation. E.g. if sample is 100 ml, then results are for 100 ml only.
- The report is not to be reproduced wholly or in part without prior permission of the agency. If the report is to be used wholly or in part for other work, the agency must be informed.
- The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Senior Analyst

Authorized Signatory
(Registration No. 25100000850)

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TEST REPORT

Report No./ULR No	100000850	Date	14-08-2025
Issued To	M/S Hindustan Zinc Limited, Khetri 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	Pranilad yog.
Unit's representative	Mr Prakash Sharma	Condition of Sample	F4 for testing

RESULTS

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	-

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1. The first step in the process of developing a business plan is to conduct a market analysis. This involves identifying the target market, understanding the needs and preferences of the target audience, and assessing the competitive landscape. The market analysis provides valuable insights into the potential demand for the product or service and helps to identify opportunities for differentiation.
2. The second step is to develop a marketing strategy. This involves determining the most effective channels for reaching the target audience and creating a mix of promotional activities to attract and retain customers. The marketing strategy should be based on the findings of the market analysis and should take into account the company's resources and capabilities.
3. The third step is to develop a financial plan. This involves estimating the costs of the business and projecting the revenue and profits over a period of time. The financial plan provides a clear picture of the company's financial health and helps to identify the funding requirements for the business.
4. The fourth step is to develop an operational plan. This involves determining the most efficient way to produce and deliver the product or service. The operational plan should take into account the company's resources and capabilities and should be designed to minimize costs and maximize efficiency.
5. The fifth and final step is to develop a management plan. This involves identifying the key personnel who will be responsible for the success of the business and determining the roles and responsibilities of each individual. The management plan should also include a timeline for the implementation of the business plan and a system for monitoring and evaluating progress.

Bahama
Valley, Hawaii
Senior Analyst

Author: 2003-03-10
Revised No.: 1000000850



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TEST REPORT

Report No. ULR No.	25100000850	Date	14-08-2025
Issued To	M/S Hindustan Zinc Limited (Kajadi Mines) Village Kajadi, District Amer (Rajasthan)	Type of Unit	Mines
Type of sample Discipline	Ground Water/Surface water/Biochemical	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	Prabod yagi
Unit's representative	Mr Prakash Sharma	Condition of Sample	Fair 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 :-

1. The result is valid as per the Test Method used for testing purpose. The result is valid as per the Test Method used.
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Prabod Yagi
Prabod Yagi
Senior Analyst

Satish Kumar
Satish Kumar
Approved Signature
Report No. : 25100000850



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TEST REPORT

Report No. / C.R. No.	25100060851	Date :	14-08-2025
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	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 Lit	Sample Collected By :	Prahlad yogi
Unit's representative	Mr. Prakash Sharma	Condition of Sample	Fair 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	7.23	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) : 2002 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 .

Prahlad Yogi
Prahlad Yogi



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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

Suran Mai Yogi



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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:

1. Limits mentioned here are for drinking water. There is no prescription limit for Surface/Industrial water.
2. The results here refer only to the tested samples. No claim is made for endorsement of products or their quality.
3. The responsibility to provide correct and complete information and evidence is the client's and should not be used as any liability on the laboratory's part.
4. The report is valid only for the purpose for which it is issued. It is not to be used for any other purpose unless otherwise specified.

Senior Analyst

Authorized Signatory
Report No. 25100000851



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TEST REPORT

Report No./ULR No.	100000851	Date	13-05-2025
Issued To	M. S. Hindustani Zink Limited (Koyad Mines), Village Koyad, District Amer (Rajasthan)	Type of Job	Minor
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 3025:1986 (Part 1): RA 2019
Quantity of Sample	2 Ltr	Sample Collected By	Prahlad yoni
Unit's representative	Mr. Prakash Sharma	Condition of Sample	Fitted 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

- 1. This report is valid only for the purpose for which it is issued and is not to be used for any other purpose.
- 2. The results are given as they are and are not to be used for any purpose other than for which they are issued.
- 3. This report is not to be used for any purpose other than for which it is issued and is not to be used for any other purpose.
- 4. The samples will be destroyed after 7 days from the date of issue of the report unless otherwise specified.

Balman
Senior Analyst

Prahlad yoni
Analyst / Signature
13-07-2025



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



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No.	25100000851	Date	14/08/2025
Issued To	M/S Harnusthan Zinc Limited (Kajadi Mines), Village Kajadi, District Ajmer (Rajasthan)	Type of Job	Monitor
Type of sample Discipline	Ground Water Surface water, Biological	Date of Sample Collection/Monitoring	08-07-2025
Point of Collection	Pragati Nagar	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	100	Sample Collected By	Prabhat Vag
Unit's representative	Mr. Prakash Sharma	Condition of Sample	F1 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

1. The report is valid only for the purpose for which it is issued and is not valid for any other purpose.
2. The report is valid only for the purpose for which it is issued and is not valid for any other purpose.
3. The report is valid only for the purpose for which it is issued and is not valid for any other purpose.
4. The report is valid only for the purpose for which it is issued and is not valid for any other purpose.

Signature
Bhaskar Singh
General Analyst

Signature
Rajendra Singh
Authorized Signatory
(Report No. 25100000851)

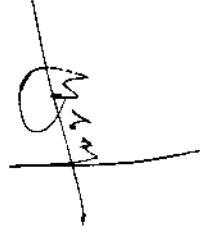
Hindustan Zinc Limited

Kayad Mine

STP pH& Turbidity Monitoring Report April 25 to Sept 25

				Annexure-VI				Annexure-VII			
Month	pH	Turbidity	Month	pH	Turbidity	Month	pH	Turbidity	Month	pH	Turbidity
01/04/2025	7.5	2.6	01/05/2025	7.4	1.8	01/06/2025	7.1	2.1	01/07/2025	7.6	2.3
02/04/2025	7.4	2.7	02/05/2025	7.3	2.1	02/06/2025	7.3	2.5	02/07/2025	7.5	2.1
03/04/2025	7.5	2.7	03/05/2025	7.4	2.2	03/06/2025	7.4	2.6	03/07/2025	7.8	2.2
04/04/2025	7.3	2.5	04/05/2025	7.2	2.6	04/06/2025	6.4	2.7	04/07/2025	7.6	2.8
05/04/2025	7.1	2.7	05/05/2025	7.2	2.8	05/06/2025	7.6	2.1	05/07/2025	7.4	2.4
06/04/2025	7.4	3.8	06/05/2025	7.3	1.5	06/06/2025	7.3	1.6	06/07/2025	7.3	2.2
07/04/2025	7.7	3.7	07/05/2025	7.1	1.5	07/06/2025	7.5	2.3	07/07/2025	7.5	2.3
08/04/2025	7.4	3.4	08/05/2025	7.2	1.2	08/06/2025	7.2	1.9	08/07/2025	7.2	2.4
09/04/2025	7.3	3.3	09/05/2025	7.1	2.3	09/06/2025	7.4	1.6	09/07/2025	7.3	2.7
10/04/2025	7.1	3.4	10/05/2025	7.3	2.6	10/06/2025	7.5	2.2	10/07/2025	7.4	2.9
11/04/2025	7.2	2.7	11/05/2025	7.5	2.9	11/06/2025	7.5	2.5	11/07/2025	7.1	3.4
12/04/2025	7.2	2.9	12/05/2025	7.4	2.8	12/06/2025	7.4	2.4	12/07/2025	7.5	3.8
13/04/2025	7.5	3.4	13/05/2025	7.5	2.4	13/06/2025	7.2	1.6	13/07/2025	7.6	2.9
14/04/2025	7.6	3.8	14/05/2025	7.4	2.4	14/06/2025	7.3	1.5	14/07/2025	7.4	3.1
15/04/2025	7.3	3.6	15/05/2025	7.5	2.5	15/06/2025	7.5	1.8	15/07/2025	7.5	2.5
16/04/2025	7.1	2.9	16/05/2025	7.8	2.6	16/06/2025	7.6	2.1	16/07/2025	7.6	1.9
17/04/2025	7.3	2.1	17/05/2025	7.5	2.1	17/06/2025	7.6	2.1	17/07/2025	7.3	2.1
18/04/2025	7.5	2.1	18/05/2025	7.6	2.7	18/06/2025	7.4	2.5	18/07/2025	7.4	2.2
19/04/2025	7.7	2.2	19/05/2025	7.4	2.2	19/06/2025	7.2	2.6	19/07/2025	7.7	2.5
20/04/2025	7.6	2.2	20/05/2025	7.3	3.6	20/06/2025	7.1	3.1	20/07/2025	7.4	2.9
21/04/2025	7.4	2.4	21/05/2025	7.1	2.8	21/06/2025	7.3	2.1	21/07/2025	7.7	3.6
22/04/2025	7.5	1.9	22/05/2025	7.3	3.3	22/06/2025	7.6	2.7	22/07/2025	7.5	2.8
23/04/2025	7.2	1.8	23/05/2025	7.5	2.2	23/06/2025	7.4	2.5	23/07/2025	7.3	3.3
24/04/2025	7.3	2.4	24/05/2025	7.4	2.2	24/06/2025	7.2	2.8	24/07/2025	7.5	2.3
25/04/2025	7.4	2.1	25/05/2025	7.6	2.1	25/06/2025	7.3	2.6	25/07/2025	7.4	1.9
26/04/2025	7.1	2.1	26/05/2025	7.5	2.2	26/06/2025	7.3	2.3	26/07/2025	7.2	1.6
27/04/2025	7.3	2.2	27/05/2025	7.3	2.6	27/06/2025	7.4	1.2	27/07/2025	7.5	2.3
28/04/2025	7.5	2.5	28/05/2025	7.3	2.6	28/06/2025	7.5	2.4	28/07/2025	7.7	2.4
29/04/2025	7.7	2.6	29/05/2025	7.2	2.5	29/06/2025	7.6	2.6	29/07/2025	7.7	2.1
30/04/2025	7.6	2.1	30/05/2025	7.4	2.33	30/06/2025	7.7	2.3	30/07/2025	7.5	2.5
			31/05/2025	7.2	2.6				31/07/2025	7.6	3.8
									31/08/2025	7.6	2.1

Annexure -VIII							
Environmental Expenditure details							
Particular	FY 2025-26						
Month	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	
Expenditure(Lacs)	₹ 9.35	₹ 10.27	₹ 7.85	₹ 9.45	₹ 9.40	₹ 7.99	
Total (In Lacs)							₹ 54.30





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

M/s Hindustan Zinc Limited (Kayar Mine)

P.O.- Kayar, Ajmer- 305 023,

District :Ajmer

E-Mail : kastoor.meena@vedanta.co.in

Sub: Grant of Consent to Operate under Section 21(4) of Air (Prevention & Control of Pollution) Act, 1981 and under Section 25/26 of Water (Prevention & Control of Pollution) Act, 1974 for your **Major Mineral Mine** at near Village **Kayar**, Tehsil **Ajmer**, District **Ajmer (M.L.No-16/92)**.

Ref: (i) Your applications dated 23/09/2022
(ii) Received on 23/09/2022
(iii) Received at Head office on 22/09/2022

Sir,

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, 1981 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 stipulations:-

- 1 That this consent is being granted in favour of **M/s. Hindustan Zinc Limited (Kayar Mine)**, a Mine of **Major Mineral** having **M.L.No.- 16/92** in an area measuring **480.4500 Hectares** at/near Village **Kayar**, 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
1 LEAD & ZINC ORE (ROM)	12.0000 LAKHS TONNES/ANNUM

- 4 That the project proponent will comply with the Standard as prescribed vide the Ministry of Environment, Forest and Climate Change notification no. GSR 826(E) dated 16th November, 2009 with respect to National Ambient Air Quality standards.



Environmental Monitoring and Evaluation Studies at Kayad Mines, of Hindustan Zinc limited

Sponsored by
Kayad Mines, Hindustan Zinc Ltd.



CSIR-National Environmental
Engineering Research Institute

Nehru Marg, Nagpur - 440020

February 2021

[illegible]

Annexure -XII



Annexure -XIII



Annexure -XIV

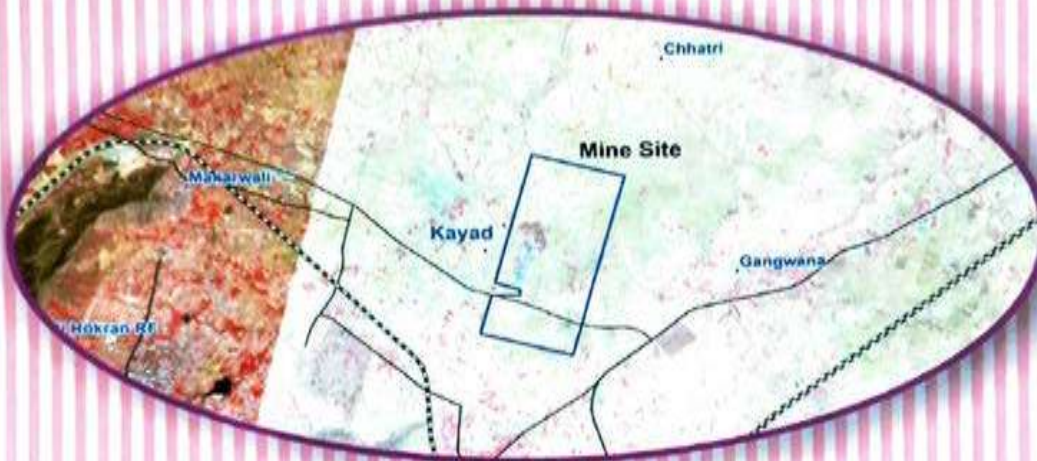


Annexure -XV





LAND USE/LAND COVER STUDY REPORT



Kayad Lead Zinc Mine (M.L. No. Area: 480.45 ha)

At
Village: Kayad,
Tehsil & District: Ajmer (Rajasthan)

PROJECT PROPONENT



HINDUSTAN ZINC
LIMITED

Hindustan Zinc Limited

Regd. Office: Yashod Bhawan,
Udaipur
Rajasthan - 313 004

PREPARED BY



J.M. EnviroNet Pvt. Ltd.

(Registered EIA Consultant Organization from NABET-GCI)
Certificate No.: NABET/EIA/2023/SA 0172 (Valid till 7th Aug., 2023)
Emmor Digital Greens, Tower - B, Unit No. 1617,
Golf Course Ext. Road, Sector - 41, Gurgaon (Haryana) - 123 011
E-mail: jmenviron@hotm.com
NABL Approved Lab: JM EnviroLab Pvt. Ltd.
(Certificate No.: TC-4821)

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-I10115 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 31ST 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^a



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

(भूजल निकासी हेतु अनापत्ति प्रमाण पत्र)

NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION

Project Name:		M/s Hindustan Zinc Limited										
Project Address:		Kayar Mine, Village - Kayar, Block- Srinagar										
Village:		Kayad		Block:		Srinagar						
District:		Ajmer		State:		Rajasthan						
Pin Code:												
Communication Address:		Hindustan Zinc Limited, Kayad Mine,, Po Kayad, Srinagar, Ajmer, Rajasthan - 305023										
Address of CGWB Regional Office :		Central Ground Water Board Western Region, 6-a, Jhalana Doongri, Jaipur, Rajasthan - 302004										
1.	NOC No.:	CGWA/NOC/MIN/REN/4/2025/11265			2.	Date of Issuance	28/03/2025					
3.	Application No.:	21-4/176/RJ/MIN/2007			4.	Category: (GWRE 2024)	Over Exploited					
5.	Project Status:	Existing With Additional Ground Water Requirment			6.	NOC Type:	Renewal					
7.	Valid from:	10/10/2022			8.	Valid up to:	09/10/2026(Extended Validity)					
9. Ground Water Abstraction Permitted:												
Fresh Water		Saline Water		Dewatering		Total						
m ³ /day	m ³ /year	m ³ /day	m ³ /year	m ³ /day	m ³ /year	m ³ /day	m ³ /year					
0.00	0.00			700.00	255500.00	700.00	255500.00					
10. Details of ground water abstraction /Dewatering structures												
Total Existing No							Total Proposed No					
	DW	DCB	BW	TW	MP	MPu	DW	DCB	BW	TW	MP	MPu
Dewatering Structure*	0	0	0	0	0	1	0	0	0	0	0	3
*DW- Dug Well; DCB-Dug-cum-Bore Well; BW-Bore Well; TW-Tube Well; MP-Mine Pit;MPu-Mine Pumps												
11. Ground Water Abstraction/Restoration Charges paid (Rs.):							1707328.00					
12. Environment Compensation (if applicable) paid (Rs.):							0.00					
13. Number of Piezometers(Observation wells) to be constructed/ monitored & Monitoring mechanism.							No. of Piezometers		Monitoring Mechanism			
									Manual	DWLR**	DWLR With Telemetry	
**DWLR - Digital Water Level Recorder							2		0	1	1	

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Phone: (011) 23383561 Fax: 23382051, 23386743

Website: cgwa-noc.gov.in

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CENTRAL GROUND WATER AUTHORITY

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(Compliance Conditions given overleaf)

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

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

Mandatory conditions:

- 1) Installation of tamper proof digital water flow meter with telemetry on all the abstraction structure(s) shall be mandatory for all users seeking No Objection Certificate and intimation regarding their installation shall be communicated to the CGWA within 30 days of grant of No Objection Certificate.
- 2) Proponents shall mandatorily get water flow meter calibrated from an authorized agency once in a year.
- 3) Construction of purpose-built observation wells (piezometers) for ground water level monitoring shall be mandatory as per Section 14 of Guidelines. Water level data shall be made available to CGWA through web portal. Detailed guidelines for construction of piezometers are given in Annexure-II of the guidelines.
- 4) Proponents shall monitor quality of ground water from the abstraction structure(s) once in a year. Water samples from bore wells/ tube wells / dug wells shall be collected during April/May every year and analysed in NABL accredited laboratories for basic parameters (cations and anions), heavy metals, pesticides/ organic compounds etc. Water quality data shall be made available to CGWA through the web portal.
- 5) In case of mining projects, additional key wells shall be established in consultation with the Regional Director, CGWB for ground water level monitoring four (4) times a year (January, May, August and November) in core as well as buffer zones of the mine.
- 6) In case of mining project the firm shall submit water quality report of mine discharge/ seepage from Govt. approved/ NABL accredited lab.
- 7) The firm shall report compliance of the NOC conditions online in the website (www.cgwa-noc.gov.in) within one year from the date of issue of this NOC.
- 8) Industries abstracting ground water in excess of 100 m³/d shall undertake annual water audit through certified auditors and submit audit reports within three months of completion of the same to CGWA. All such industries shall be required to reduce their ground water use by at least 20% over the next three years through appropriate means.
- 9) Application for renewal can be submitted online from 90 days before the expiry of NOC. Ground water withdrawal, if any, after expiry of NOC shall be illegal & liable for legal action as per provisions of Environment (Protection) Act, 1986.
- 10) This NOC is subject to prevailing Central/State Government rules/laws/norms or Court orders related to construction of tube well/ground water abstraction structure / recharge or conservation structure/discharge of effluents or any such matter as applicable.

General conditions:

- 11) No additional ground water abstraction and/or de-watering structures shall be constructed for this purpose without prior approval of the Central Ground Water Authority (CGWA).
- 12) The proponent shall seek prior permission from CGWA for any increase in quantum of groundwater abstraction (more than that permitted in NOC for specific period).
- 13) Proponents shall install roof top rain water harvesting in the premise as per the existing building bye laws in the premise.
- 14) The project proponent shall take all necessary measures to prevent contamination of ground water in the premises failing which the firm shall be responsible for any consequences arising thereupon.
- 15) In case of industries that are likely to contaminate the ground water, no recharge measures shall be taken up by the firm inside the plant premises. The runoff generated from the rooftop shall be stored and put to beneficial use by the firm.
- 16) Wherever feasible, requirement of water for greenbelt (horticulture) shall be met from recycled / treated waste water.
- 17) Wherever the NOC is for abstraction of saline water and the existing wells (s) is /are yielding fresh water, the same shall be sealed and new tubewell(s) tapping saline water zone shall be constructed within 3 months of the issuance of NOC. The firm shall also ensure safe disposal of saline residue, if any.
- 18) Unexpected variations in inflow of ground water into the mine pit, if any, shall be reported to the concerned Regional Director, Central Ground Water Board.
- 19) In case of violation of any NOC conditions, the applicant shall be liable to pay the penalties as per Section 16 of Guidelines.
- 20) This NOC does not absolve the proponents of their obligation / requirement to obtain other statutory and administrative clearances from appropriate authorities.
- 21) The issue of this NOC does not imply that other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would consider the project on merits and take decisions independently of the NOC.
- 22) In case of change of ownership, new owner of the industry will have to apply for incorporation of necessary changes in the No Objection Certificate with documentary proof within 60 days of taking over possession of the premises.
- 23) This NOC is being issued without any prejudice to the directions of the Hon'ble NGT/court orders in cases related to ground water or any other related matters.
- 24) Proponents, who have installed/constructed artificial recharge structures in compliance of the NOC granted to them previously and have availed rebate of upto 50% (fifty percent) in the ground water abstraction charges/ground water restoration charges, shall continue to regularly maintain artificial recharge structures.
- 25) Industries which are likely to cause ground water pollution e.g. Tanning, Slaughter Houses, Dye, Chemical/ Petrochemical, Coal washeries, pharmaceutical, other hazardous units etc. (as per CPCB list) need to undertake necessary well head protection measures to ensure prevention of ground water pollution as per Annexure III of the guidelines.
- 26) In case of new infrastructure projects having ground water abstraction of more than 20 m³/day, the firm/entity shall ensure implementation of dual water supply system in the projects.
- 27) In case of infrastructure projects, paved/parking area must be covered with interlocking/perforated tiles or other suitable measures to ensure groundwater infiltration/harvesting.
- 28) In case of coal and other base metal mining projects, the project proponent shall use the advance dewatering technology (by construction of series of dewatering abstraction structures) to avoid contamination of surface water.
- 29) The NOC issued is conditional subject to the conditions mentioned in the Public notice dated 27.01.2021 failing which penalty/EC/cancellation of NOC shall be imposed as the case may be.
- 30) This NOC is issued subject to the clearance of Expert Appraisal Committee (EAC) (if applicable).
- 31) In the self-compliance report, the PP shall submit details of Drilling Agency/ Agencies, which has/ have constructed BW(s)/ TW(s) along with undertaking to the effect that all necessary measures have been taken as per directions of Hon'ble Supreme Court provided in Annexure-VII of guidelines dated 24.09.2020 in respect of abandoned/ failed BW(s)/ TW(s)/Piezometer(s), if any. The PP is advised to engage registered drilling agency/ agencies. In the event of any mishap/ unfortunate incident due to negligence in taking measures for prevention of accident due to falling in Bore Well, both PP and concerned drilling agency shall jointly be held responsible and penal action as per extant Government rules shall be taken.

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

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

Receipt

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

Application No.:	21-4/176/RJ/MIN/2007	Date of Issuance:	28/03/2025
Name of Firm:	M/S HINDUSTAN ZINC LIMITED		
AppType Category:	Base Metal Ores		
Application Type:	Mining		
PAN/GSTIN No. of Firm/Individual:	/		

S N	Description	Amount (Rs.)
1.	Application Processing Fee	5000.00
2.	Ground Water Abstraction charges	0
3.	Ground Water Restoration charges	1707328.00
4.	Environmental Compensation Charges (ECRGW) (Date From to) Days-	
5.	Penalty for non-Compliance of NOC conditions Condition to be mentioned	
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
Rs. Rupees Seventeen Lakh Twelve Thousand Three Hundred Twenty Eight Only		1712328.00

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

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Term and conditions:

- i. All disputes are subject to Delhi Jurisdiction.
- ii. Any complaint in regard to the rates will not be entertained.

Member-Secretary
CGWA, New Delhi

CENTRAL GROUND WATER AUTHORITY

Confidential

CSIR-Central Institute of Mining and Fuel Research
(Council of Scientific & Industrial Research)
Barwa Road, Dhanbad – 826 001



REPORT ON

[STUDY PERIOD 1st APRIL, 2025 to 30th SEPTEMBER, 2025]

Study and advice for blast design parameters optimization at Kayad under-ground mines of Hindustan Zinc Limited for the safety and stability of surface structures/dwellings of Kayad village and subsequent continuous monitoring of vibration for their long-term stability



PROJECT NO.: SSP/872/2024-25

NOVEMBER 2025



Introduction

Executive (Commercial), Hindustan Zinc Limited approached the Director, CSIR-Central Institute of Mining and Fuel Research, Dhanbad, PO No.: 11020159 / 4500008949 dated 03.01.2025 for a scientific study and advice for blast design parameters optimization at Kayad under-ground mines of Hindustan Zinc Limited for the safety and stability of surface structures/dwellings of Kayad village and subsequent continuous monitoring of vibration for their long-term stability.

The Rock Excavation Engineering Division of CSIR-CIMFR conducted an extensive series of 681 controlled blasts across various locations for slot raises and ring operations over six months, from April 1 to September 30, 2025. These blasting activities were performed at multiple stopes locations, including N-220, N-110, N-23, N+25, N-170, N170, N-150, N-130, N-125, N325, N-90, N-160, NE-23, N-190, N-195, N-150×830, N-90OD4, N-130×860, N-170×860, N-200EWOD, K21, N-90OD2, N175, N120, N75, N175, N-260, Man Hole, East Decline, West Decline, East Access, S310, S250, S350, S400, S300, S425, etc.

Attempts were made to record 1362 ground vibration data, out of which 124 ground vibration data were recorded only. The instrument has not triggered for 1238 instances of ground vibration. In this case, the vibration level was below the pre-set trigger level of the seismograph i.e. 0.5 mm/s. The vibrations were recorded at different locations in the mine premises area, in the periphery of the mine, and in the Kayad village. The monitoring locations include the Administrative block, VTC, Punching Gate, RO Plant, Underground Decline and Near Mr. Sultan House. The radial distances of the blast vibration monitoring point from the blasting face ranged from 236.3 m to 1617.2 m. All the blasts were initiated with electronic delay detonators and with Nonel delay detonators to avoid nuisance to the inhabitants of the Kayad village. This report includes the results of the study, data analyses, discussions, conclusions, and recommendations for safe and efficient blasting operations. Figure 1 illustrates the number of blasts conducted (month-wise) at Kayad Mine from April 1, 2025, to September 30, 2025.

Instrumentations

Blast induced vibrations were monitored by seismographs namely MiniMate Plus. MiniMate plus is eight as well as four channel seismographs provided with two/one tri-axial transducer(s) for monitoring vibration (in mm/s) and two/one channel(s) for monitoring air over-pressure/noise in dB(L). All the seismographs record vibration in three directions i.e., Longitudinal (L), Vertical (V) and Transverse (T). They also record dominant peak frequency of vibration and compute the peak vector sum of the vibration.

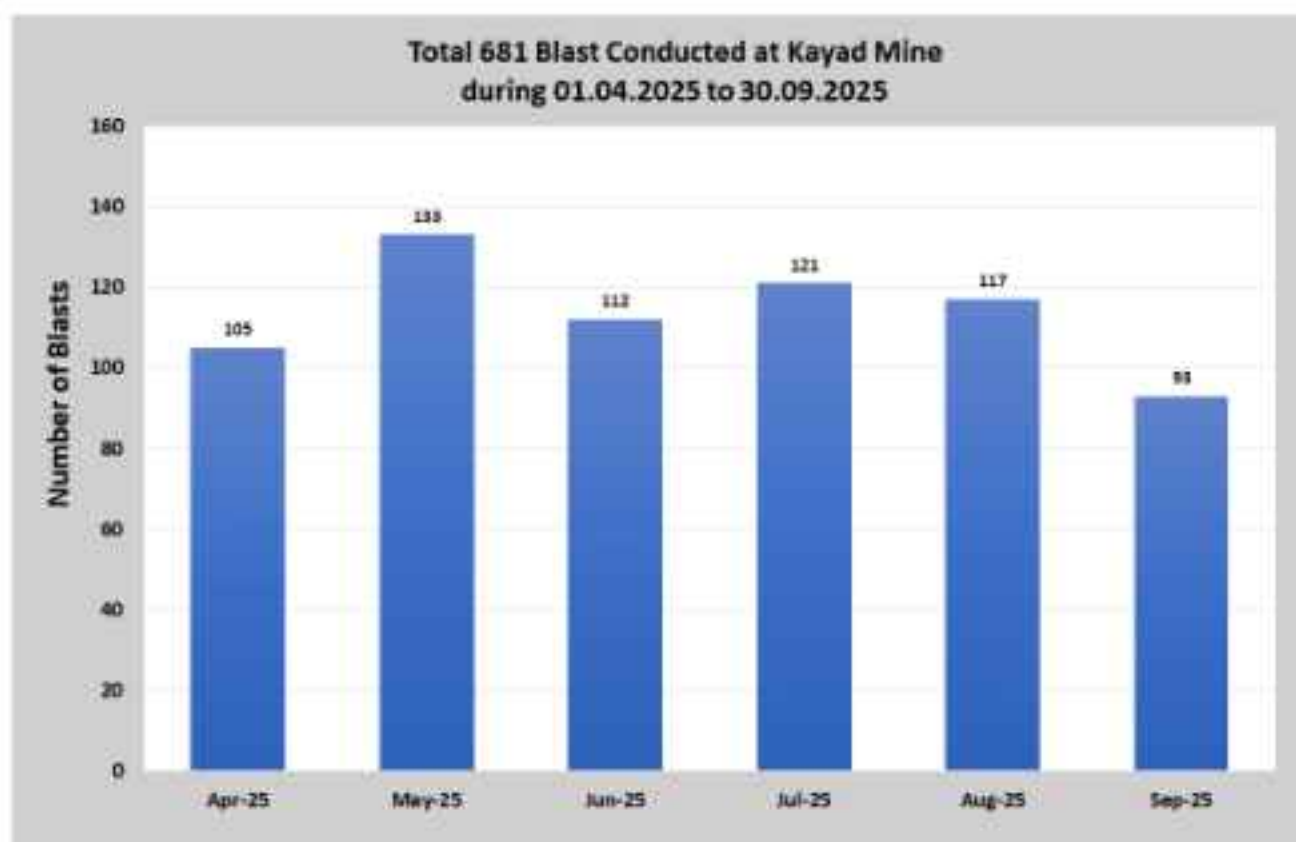


Figure 1. No. of blasts conducted at Kayad UG mine, HZL from 01.04.2025 to 30.09.2025.

DGMS Vibration standard to prevent damage of surface structures

Peak particle velocity has been globally used in practice for assessment of blast-induced damage to structures. Different countries adopt different standards depending on their type of industrial/residential buildings. In India, presently DGMS technical circular 7 of 1997 is considered as vibration standard for the safety of surface structures in mining areas. The DGMS standard is given in Table 1.

Table 1. DGMS technical circular 7 of 1997 concerning to blast vibration standard, in mm/s for the safety of surface structures.

Type of structure	Dominant excitation frequency, Hz		
	< 8 Hz	8-25 Hz	> 25 Hz
(A) Buildings/structures not belong to the owner			
1. Domestic houses/structures (Kuchcha, brick & cement)	5	10	15
2. Industrial buildings	10	20	25
3. Objects of historical importance and sensitive structures	2	5	10
(B) Buildings belonging to owner with limited span of life			
1. Domestic houses/structures	10	15	25
2. Industrial buildings	15	25	50

Blast vibration monitoring

The blast vibration monitoring locations were determined in consultation with mine officials. Seismographs were installed at five to six locations, with a maximum of two locations simultaneously. One seismograph was placed at the mine boundary near the important/concerned houses/structures of the Kayad village particularly near Sultan house and others near the Administrative building, VTC, Underground Decline, RO Plant and Punching gate of Kayad Mine. The maximum vibration recorded was 14.0 mm/s with a dominant peak frequency of 29.9 Hz near the admin building of Kayad Mine. In the same blast vibration recorded at the Mine boundary near Punching Gate of Kayad mine was 7.41 mm/s with a dominant peak frequency of 106 Hz. The blast wave recorded at the Admin building of Kayad mine due to the blast conducted at the S/425 stope on 22.08.2025 (PPV- 6.08 mm/s) is presented in Figure 2. Such level of vibrations were sometimes recorded, while the blasts were conducted at upper level specifically at the S 400 and S 425 stopes. The Fast Fourier Transform (FFT) analysis of the frequency of vibration (as mentioned in Figure 2) is shown in Figure 3. The blast wave recorded on 05.09.2025 (PPV – 7.48 mm/s) at the mine boundary near the house of Mr Sultan Ahmad due to a blast conducted at S/300 is depicted in Figure 4, and its Fast Fourier Transform (FFT) analysis of frequency of vibration is presented in Figure 5. The range of dominant peak frequency lies in the range of 9.563 Hz to 143.9Hz. It is evident from the figures that the major concentration of vibration energy lies in the range of 20 – 90 Hz, i.e. in the high frequency zone (>25 Hz).

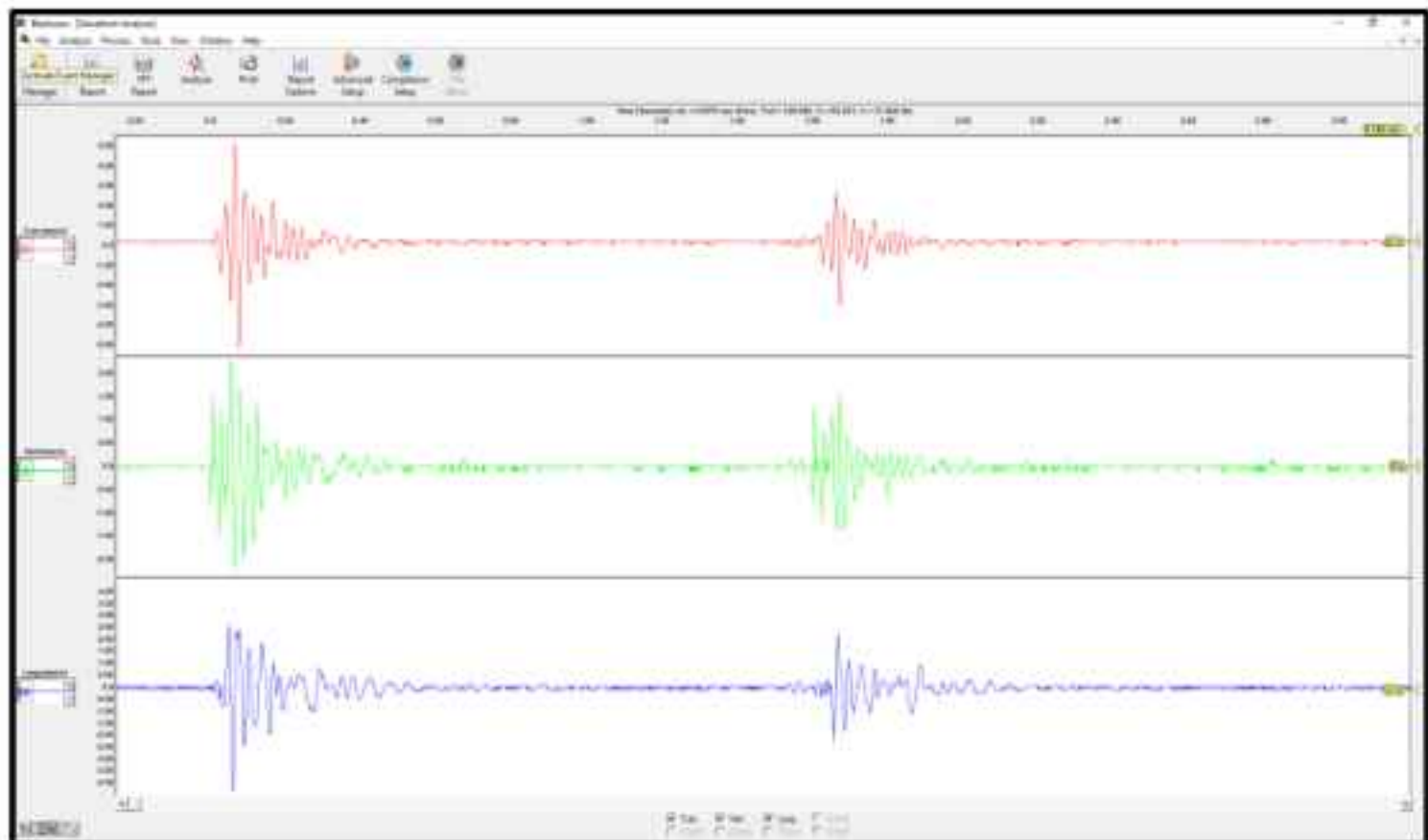


Figure 2. Blast time history recorded on 22.08.2025 at the Admin building of Kayad mine.

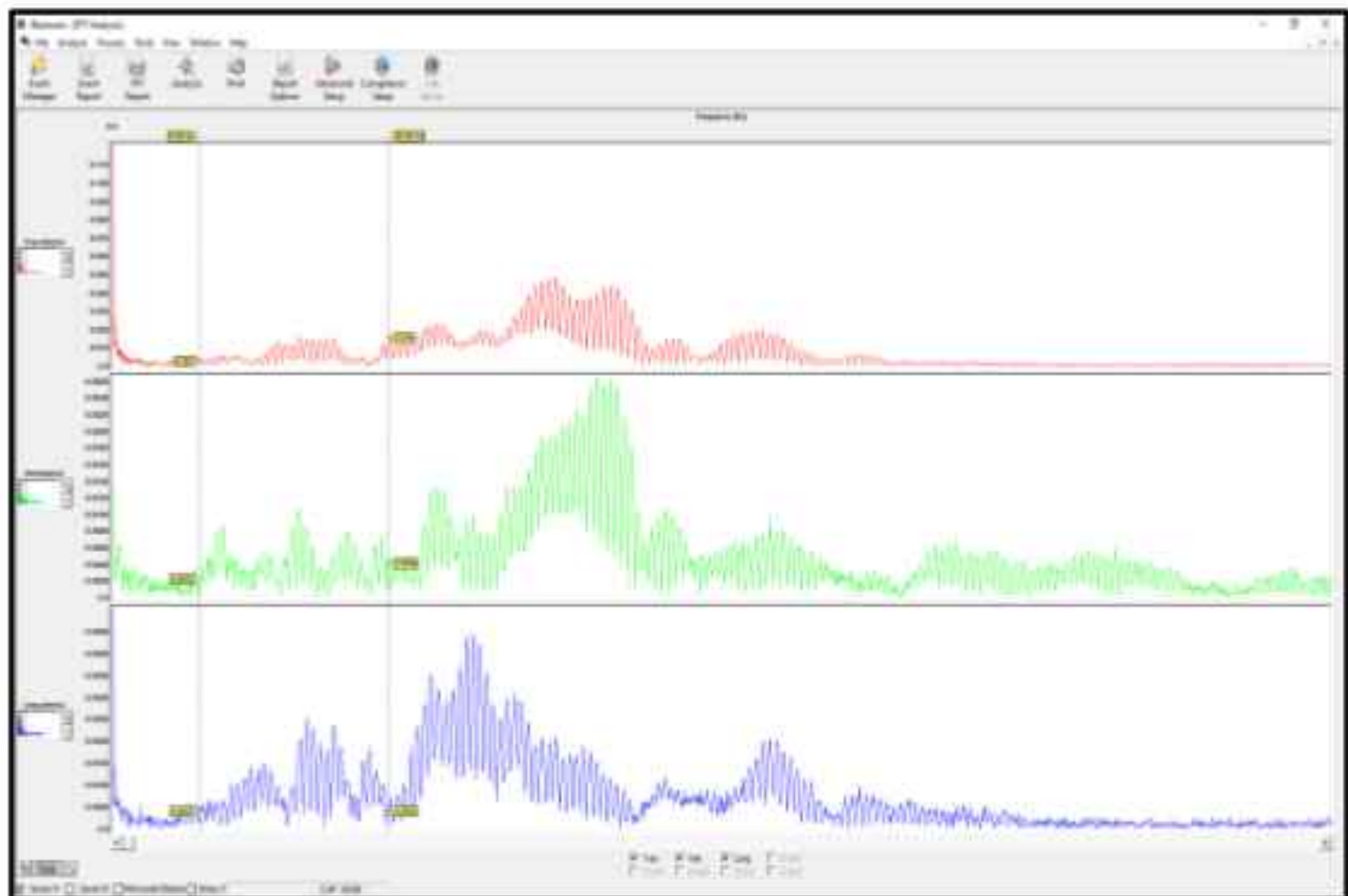


Figure 3. The FFT analyses of the frequency of vibration (as mentioned in Figure 2)

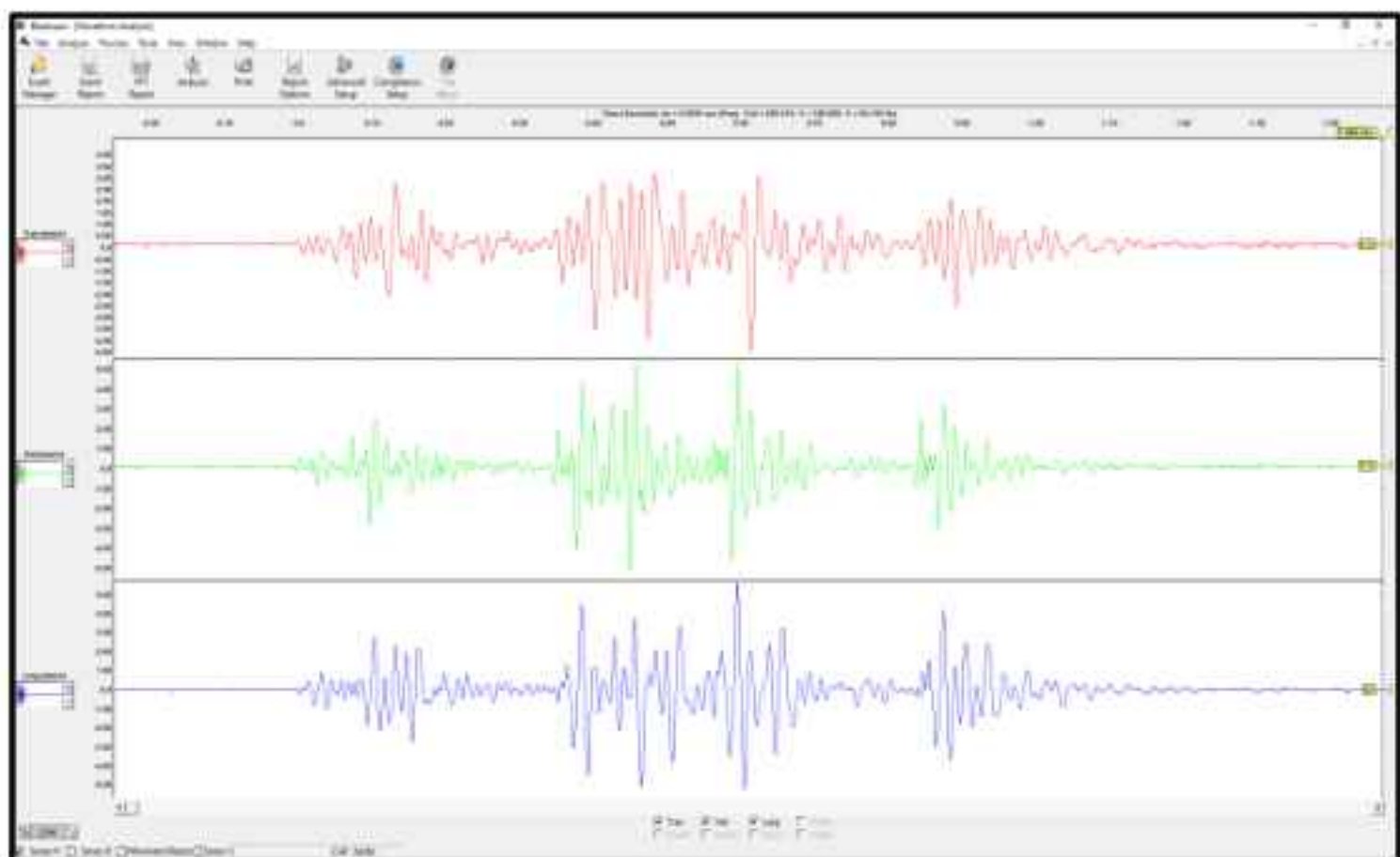


Figure 4. Blast time history recorded on 05.09.2025 at mine boundary near the house of Mr. Sultan Ahmad.

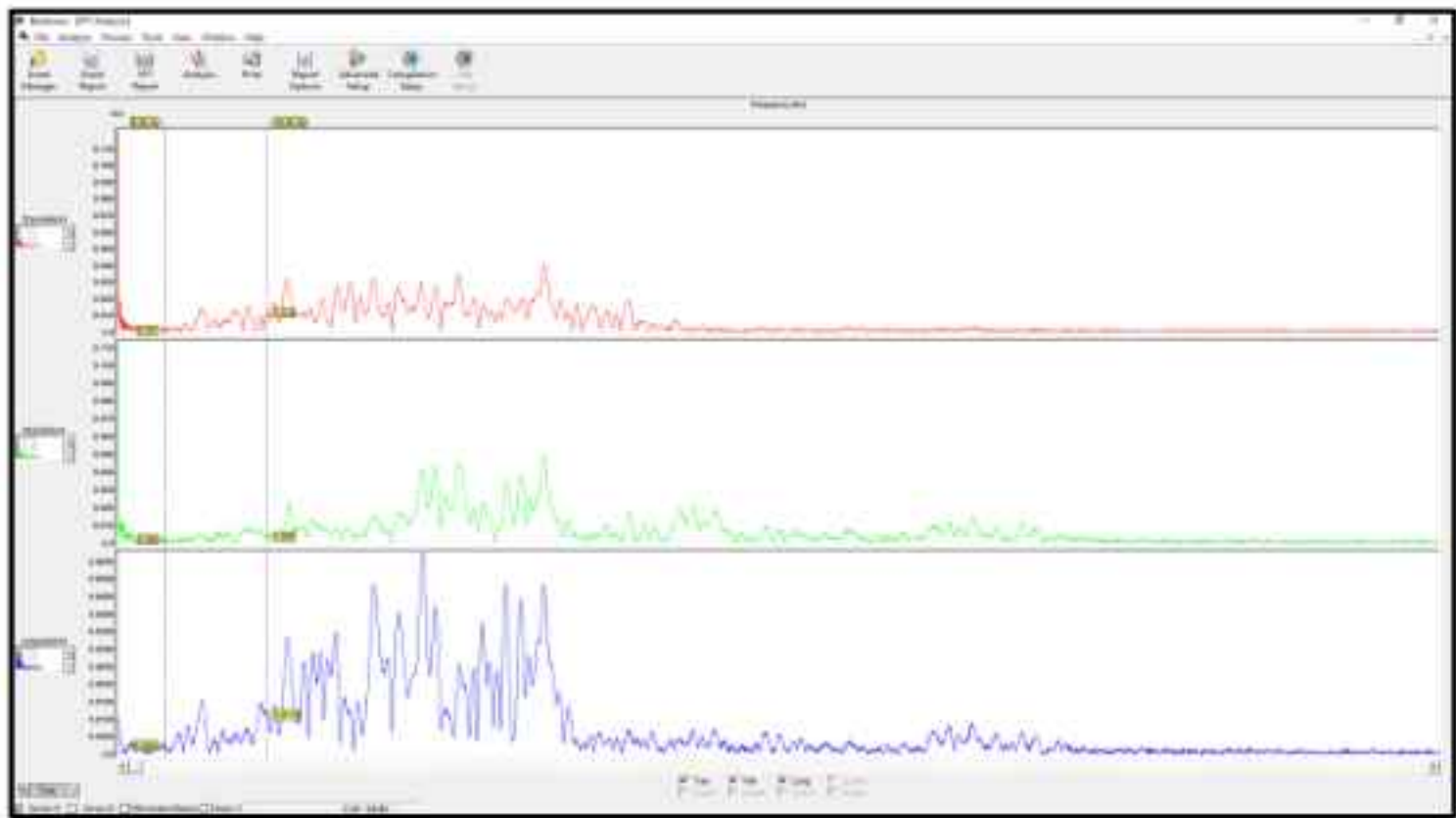


Figure 5. The FFT analyses of frequency of vibration (as mention in Figure 4).

The vibration data recorded due to the blast conducted at Kayad UG Mine during April 01, 2025-September 30, 2025, were analysed. The recorded peak particle velocity (PPV) data were in the range of 0.53 mm/s to 14.0 mm/s. The threshold velocity of vibration as per the DGMS standard is 15 mm/s for Kayad UG Mine considering the dominant frequency range of more than 25 HZ. Figure 6 depicts the plot of recorded vibration data with their corresponding dominant peak frequency. The view of different vibration monitoring locations in the periphery of the mine is shown in Photograph 1.

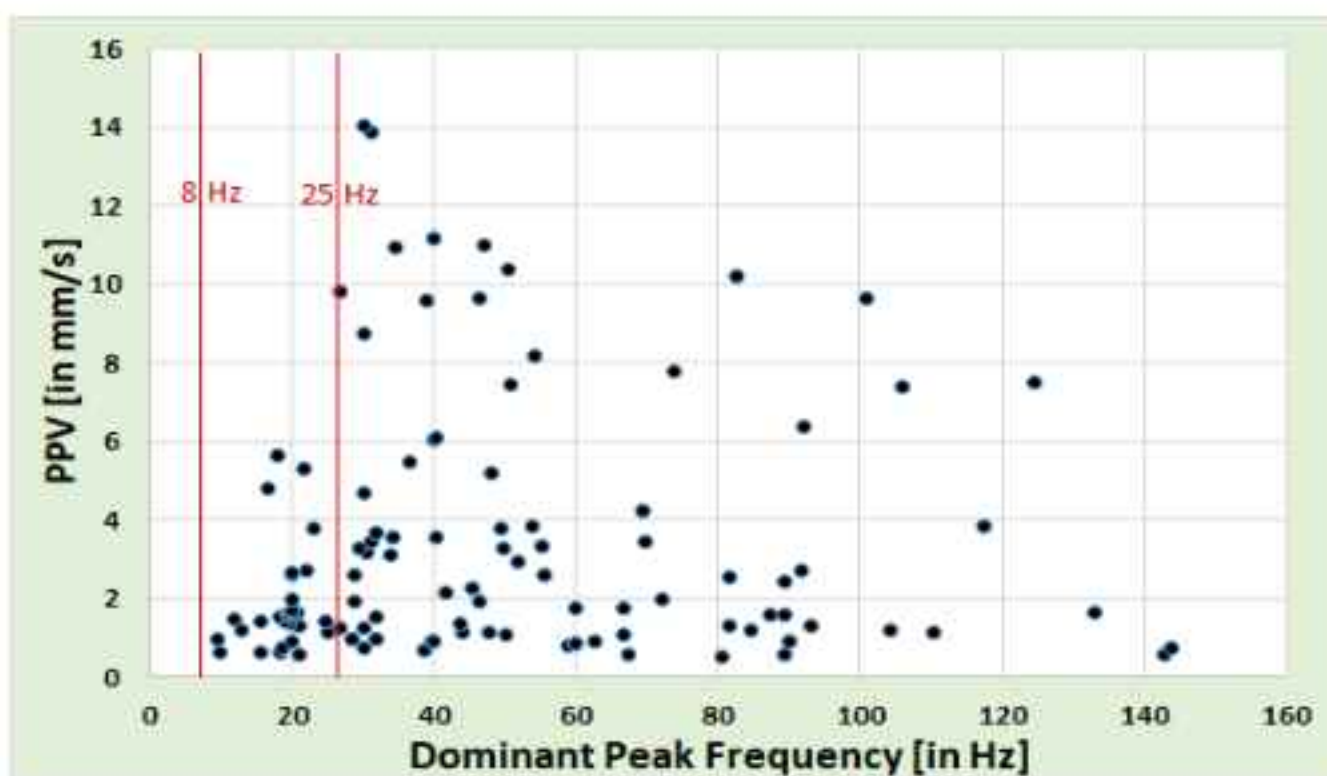


Figure 6. Blast vibration data recorded vibration in the periphery of Kayad UG Mine.



Photograph 1. Monitoring of blast-induced ground vibration at different locations in the periphery of Kayad UG mine.

Human response to blasting

The tolerance and reactions of human beings to vibrations are important when standards are based on annoyance, interference, work proficiency and health. Human beings notice and react to blast induced vibrations at levels that are lower than the damage thresholds.

It is impossible to establish a vibration level where nobody will complain. There are always some persons in a population who will complain no matter how small the disturbance is. Several researchers recognised that the duration of the vibration was critical. Most evident was that a higher level could be tolerated if the event was short. Consequently, steady state vibration data could not be realistically applied to blasting except for events that exceed sixty seconds duration. The mine management must convince the nearby house owners that the rattling is to be expected but it may not be damaging.

Conclusions and recommendations

- ❖ Altogether, 681 blasts were conducted for underground slot raise and Ring blasts at different locations of the mine during April 01, 2025 - September 30, 2025. Attempts were made to record 1362 vibration data, out of which 1238 vibration data were below the pre-trigger level of the seismograph i.e., 0.5 mm/s.



- ❖ The recorded blast-induced ground vibration data were in the range of 0.53 mm/s to 14.0 mm/s. The radial distances of the blast vibration monitoring point from the blasting face were in the range of 236 to 1617 m.
- ❖ The maximum vibration recorded was 14.0 mm/s with a dominant peak frequency of 29.9 Hz near the Punching Gate of Kayad Mine. In the same blast vibration recorded at the Mine boundary near Sultan House of Kayad mine was 7.4 mm/s with a dominant peak frequency of 106 Hz.
- ❖ The recorded dominant peak frequencies of vibration were in the range of 9.563 – 143.9 Hz. The Fast Fourier Transform (FFT) analysis of ground vibration data shows that the most of the dominant frequencies were in the range of 20 to 90 Hz. Hence, the safe limit of ground vibration (PPV) for the safety of houses and other structures at Kayad village has been taken as 15 mm/s as per the DGMS standard. The recorded vibration levels in the Kayad village due to blasting at Kayad mine were well within the safe limits.
- ❖ There is no danger of damage to the existing houses/structures of Kayad village from the blasting operations being carried out in underground development, raise and ring blasts of South and North section of Kayad underground mine.

Acknowledgements

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❑ 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



❑ 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 8th 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.

