

SPEED POST

Ref : HZL/Kayad/ENV/MOEF/2025-26/ 28

May 22, 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 October 2024 to March 2025 .

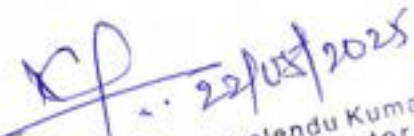
Ref : Env clearance vide No. : J-110115/47/2012-IA.II (M) dated 5th Feb, 2018.

Dear Sir / Madam,

Please find enclosed herewith the compliance status report of above referred Environmental Clearance granted by the Ministry of Environment, Forest and Climate Change for the period of **October 2024 to March 2025**. is for your kind perusal. Soft copy of compliance is also mailed and uploaded in the website.

Thanking you,

Yours faithfully


(Nirmalendu Kumar)
Director- SBU Kayad Mine
SBU Director
Hindustan Zinc Ltd.
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)

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

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

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, Distt. Ajmer, Rajasthan.

Environmental Clearance letter no: J-11015/47/2012-IA.II (M) dated 5th Feb, 2018.

Period of Compliance report: October 2024 to March 2025

S.no	A. Specific Conditions	Compliance Status
1.	Environmental Clearance is Granted Subject to Under Hon'ble Supreme Court Judgment Date 02.08.2017	Noted
2.	Environmental Clearance is Granted Subject to Final Outcome of Hon'ble Supreme Court of India, Hon'ble High Court of Rajasthan and other Court of Law, if any, as May be Applicable to this 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 area.
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 and valid till 31.01.2028 Annexure -IX All the conditions are being implemented effectively.
6.	The Proponent should install online Ambient Air Quality Monitoring System and there should be system for display of digital AAQ data within 03 months at least at three locations as per wind direction. Online provisions of pH and Turbidity meters at discharge points of STP and ETP and also at water storage pond in the mining area may be made; Project Proponent should display the result digitally in front of the main Gate of the mine site.	Online Ambient Air Quality Monitoring system installed and AAQ data digital displayed outside gate. pH and Turbidity meters at discharge point of STP (Annexure-VII) and at a water storage pond in mining area 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 MoEF & CC and its Regional office every six-month.	Waste generated from Mining operations is being reused for back filling. 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 back filling. 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 Institution 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 permission 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,	Mine haul road is being wetted through water tankers fitted with sprinklers. Annexure-XIV Permanent water sprinkler fitted. Belt-conveyor at CRF is fully covered to avoid air borne dust. Ensured effective sprinkling system to suppress fugitive dust on haul and transport roads.
14.	The monitoring of PM2.5 in the vehicle emission shall be conducted to improve the mine environment and report submitted to the Regional Office of the MoEFCC.	Monitoring of PM2.5 in ambient air on regular basis. However we are not able to monitor PM 2.5 in vehicular emission due to unavailability of established technologies/ instruments. Vehicular emission monitored on regular basis for the parameters mentioned in BS IV&VI norms and

		Pollution Under Control (PUC) Certificates for all vehicles from authorized center is obtained.
15.	The Project Proponent reported that there are seven Schedule-1 species viz. Peafowl (<i>Pavo cristatus</i>), Osprey (<i>Pandion haliaetus</i>), Tawny eagle (<i>Aquila rapax</i>), Crested honey buzzard (<i>Pernis ptilorhynchus</i>), Shikra (<i>Accipiter badius</i>), Leopard (<i>Panthera pardus</i>), Indian pangolin (<i>Manis crassicaudata</i>) in the study area. The PP shall implement the Conservation Plan and enhance the budget for implementation of Conservation Plan for Schedule I Specie 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 (<i>Pavo cristatus</i>) and has been approved by the additional Principal Chief Conservation of Forest and Chief wildlife warden Jaipur, Rajasthan and implemented the same. Action plan along with its implementation status report being submitted to RO MOEF & CC & 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 check-up. The nearby water bodies shall be monitored every six months and report submitted to Regional office of the MoEFCC to ascertain impact due to lead contamination.	Lead in the blood samples of the employees carried out during their PME and villagers are monitored. Water samples analysis of nearby water bodies carried out regularly and report submitted.
17.	Implementation of Action Plan on the issues raised during the Public Hearing shall be ensured. The Project Proponent shall complete all the tasks as per the Action Plan submitted with budgetary provisions during the Public Hearing.	Being implemented
18.	Implementation of the outcome of study with regard to "optimization 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 MoEFCC 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 monitoring of radioactive element done, and report already submitted to MoEF&CC Regional Office. No radioactive element trace in analysis. Periodic monitoring of any adverse impact of Radon and its daughter products on any worker 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.

		Progressive mine closure plan submitted to IBM.
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.	Assured to comply
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.	Renewal application submitted for permission. Recommendation by CGWB to CGWA done. NOC approved and valid till 9/10/2026. Attached annexure -XIX Surface water monitoring report attached 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.	Ensured 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. Envionet Pvt. Ltd. and Report submitted vide letter no HZL/Kayad/Enc/MoEF/22-23/94 dated 23 /11/2023 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 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 and Sox etc. in the ambient air are being monitored within the impact zone, peak particle velocity at Kayad Village being monitored regularly. Zero discharge is being maintained. PM 10, PM 2.5, NOx monitoring data and peak particle velocity data are being uploaded on website of the company as well as display board on main gate of the company.
9.	Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of Phyllo and PM2.5 such as haul road, loading and unloading point and transfer points. Fugitive dust emissions from all the sources shall be controlled regularly. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed under National Ambient Air Quality Standards (NAAQS) or by the Central Pollution Control Board in this regard. Monitoring of Ambient Air Quality to be carried out based on the Notification 2009, as amended from time to time by the Central Pollution Control Board.	An effective safeguard measure has been taken and regular water spraying on the haul road, loading and unloading area are being carried out. Ambient Air Quality parameters maintained and monitored as per National Ambient Air Quality Standards (NAAQS) or by the Central Pollution Control Board.

		Monitoring data enclosed as 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 -V.
11.	Regular monitoring of the flow rate of the springs and perennial allays flowing in and around the mine lease shall be carried out and records maintain. The natural water bodies and or streams which are flowing in an around the village, should not be disturbed, The Water Table should be nurtured so as not to go down below the pre-mining period. In case of any water scarcity in the area, the Project Proponent has to provide water to the villagers for their use. A provision for regular monitoring of water table in open dug wall located in village should be incorporated to ascertain the impact of mining over ground water table.	No springs and perennial allay flowing in and around the mine lease.
12.	Regular monitoring of water quality upstream and downstream of water bodies shall be carried out and record of monitoring data should be maintained and submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office, Central Ground Water Authority, Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board.	Regular monitoring of water quality upstream and downstream of water bodies carried out and analysis report Enclosed Annexure-IV
13.	Transportation of the minerals by road passing through the village shall not be allowed. A 'bypass' road should be constructed (say, leaving a gap of at least 200 meters) for the purpose of transportation of the minerals so that the impact of sound, dust and accidents could be mitigated. The project proponent shall bear the cost towards the widening and strengthening of existing public road network in case the same is proposed to be used for the Project. No road movement should be allowed on existing village road network without appropriately increasing the carrying capacity of such roads.	Transportation of the lead & zinc ore is being done by road 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 roads should be regularly wetted with water tankers fitted with sprinklers. The	Permanent water sprinkler at near portal haul road and roads is being

	material transfer points should invariably be provided with Bag filters and or dry fogging system. In case of Belt-conveyors facilities the system should be fully covered to avoid air borne dust; Use of effective sprinkler system to suppress fugitive dust on haul roads and other transport roads shall be ensured.	wetted through water tankers fitted with sprinklers. Annex- XIV Effective sprinkling system is in place to suppress fugitive dust on haul road. Belt-conveyor at CRF is fully covered to avoid air borne dust.
16.	Sufficient number of Gullies to be provided for better management of water. Regular Monitoring of pH shall be included in the monitoring plan and report shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office on six monthly bases.	Mine water monitored regularly, and report attached as Annexure - III. Regular pH Monitoring Report enclosed Annexure-III(A).
17.	There shall be planning, developing, and implementing facility of rainwater harvesting measures on long term basis and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board.	Rainwater harvesting is being done and water recharge structure 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 used in backfilling purpose.
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 that micro climate.	No waste dumps. All the mine waste reused 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 topsoil stored at earmark location of 9000 CuM 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	Catch drains and siltation ponds constructed to collect and prevent run off water and flow of sediments directly into the river and other water bodies. Water so collected used for dust suppression in mine area haul roads, green belt development, recharge etc . The drain and

	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.	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. Z-11013/57/2014-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 ensured
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 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.	Ensured
25.	The project proponent shall take all precautionary measures 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 completed and submitted. Various community development/ engagement activity carried out on regular basis. 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	The facilities are provided like Canteen, Toilets, STP (Annexure XII), and safe drinking water and a

	may be in the form of temporary structures to be removed After the completion of the project.	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 in work environment is being carried out and workers engaged in 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- Annexure-XIII . Mine water reused for drilling and dust suppression, CRF Plant. Zero discharge Maintained.
30.	Personnel 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 measures and kept in separate account. The expenditure from Oct-2024 to March 2025 has been incurred Rs 65.93 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	Complied

	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.	
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 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


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

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:

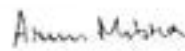
- ❖ Comply with applicable national, regional, and local environmental regulations and statutory obligations. In the absence (or lack) of appropriate legislation, industry best practices and applicable international standards will be used.
- ❖ Develop, implement, and improve environmental management 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 the Vedanta Sustainability Framework, and each Hindustan Zinc Limited business unit shall implement this policy. Our CEO will be accountable for controlling and setting the policy, and the Executive Committee are responsible for the full implementation of the policy and associated standards. The Board ESG committee will review this policy annually and recommend appropriate revisions to the Board as may deem necessary.

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

Date: 06th August, 2024



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-1400, 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 compliance 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 monitoring	Annexure-IV
5	Peizo and Well Water Report	Annexure-V
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

KAYADO MINES

AMBIENT AIR MONITORING

HINDUSTAN ZINC LIMITED																																			
KAYAS MINES																																			
AMBIENT AIR MONITORING																																			
Location-->		Near Sub Station																Near CMF										Near AMFO				Accessories-->			
		parameter	SPM	PM 10	PM 2.5	SO2	NOx	CO	TPH	PM 10	PM 2.5	NO2	PM 10	PM 2.5	SO2	PM 10	PM 2.5	CO	TPH	PM 10	PM 2.5	SO2	PM 10	PM 2.5	CO	TPH	PM 10	PM 2.5	SO2	PM 10	PM 2.5			CO	
Month year	Unit	500 µg/m3	200 µg/m3	80 µg/m3	60 µg/m3	80 µg/m3	4000 µg/m3	500 µg/m3	100 µg/m3	40 µg/m3	80 µg/m3	60 µg/m3	4000 µg/m3	500 µg/m3	100 µg/m3	40 µg/m3	4000 µg/m3	500 µg/m3	100 µg/m3	40 µg/m3	80 µg/m3	60 µg/m3	4000 µg/m3	500 µg/m3	100 µg/m3	40 µg/m3	4000 µg/m3	500 µg/m3	100 µg/m3	40 µg/m3	80 µg/m3	60 µg/m3	4000 µg/m3		
	1st Fortnight	148.13	81.89	33.31	8.53	14.82	370.00	144.37	73.92	36.41	6.38	14.47	360.00	141.86	39.83	6.09	14.76	320.00	141.86	39.83	6.09	14.76	320.00	141.86	39.83	6.09	14.76	320.00	141.86	39.83	6.09	14.76	320.00		
Nov-24	2nd Fortnight	143.4	73.67	30.52	8.00	14.6	370.00	147.9	74.77	33.64	6.88	14.45	410.00	155.96	39.83	6.18	14.55	340.00	147.9	74.77	33.64	6.88	14.45	410.00	155.96	39.83	6.18	14.55	340.00	147.9	74.77	33.64	6.88	14.55	340.00
	3rd Fortnight	144.95	74.78	33.81	8.48	14.86	340.00	151.7	68.79	30.75	6.67	14.67	360.00	140.3	39.96	6.67	14.67	360.00	140.3	39.96	6.67	14.67	360.00	140.3	39.96	6.67	14.67	360.00	140.3	39.96	6.67	14.67	360.00		
Dec-24	1st Fortnight	147.09	79.6	34.32	8.7	14.27	320.00	151.77	69.68	33.68	6.82	14.67	370.00	156.84	39.85	6.19	14.76	320.00	156.84	39.85	6.19	14.76	320.00	156.84	39.85	6.19	14.76	320.00	156.84	39.85	6.19	14.76	320.00		
	2nd Fortnight	134.83	79.66	34.52	8.28	14.53	420.00	173.79	69.7	32.36	6.45	14.76	520.00	151.68	39.83	6.83	14.66	480.00	151.68	39.83	6.83	14.66	480.00	151.68	39.83	6.83	14.66	480.00	151.68	39.83	6.83	14.66	480.00		
Jan-25	1st Fortnight	144.04	71.8	32.49	8.97	14.54	310.00	157.42	82.13	36.8	7.40	14.88	390.00	160.39	40.26	6.04	14.79	470.00	160.39	40.26	6.04	14.79	470.00	160.39	40.26	6.04	14.79	470.00	160.39	40.26	6.04	14.79	470.00		
	2nd Fortnight	142.88	72.54	31.87	8.54	14.59	460.00	147.35	76.52	34.56	6.46	14.3	440.00	137.68	39.86	6.87	14.35	470.00	147.35	76.52	34.56	6.46	14.3	440.00	137.68	39.86	6.87	14.35	470.00	147.35	76.52	34.56	6.46	14.35	470.00
Jan-25	3rd Fortnight	151.93	73.85	32.55	8.38	14.91	360.00	153.15	76.73	32.32	6.83	15.1	380.00	110.56	39.86	6.24	14.66	410.00	110.56	39.86	6.24	14.66	410.00	110.56	39.86	6.24	14.66	410.00	110.56	39.86	6.24	14.66	410.00		
	4th Fortnight	177.05	88.52	37.6	8.51	15.47	360.00	157.32	82.48	33.83	6.68	14.5	410.00	148.48	39.83	6.53	14.66	430.00	148.48	39.83	6.53	14.66	430.00	148.48	39.83	6.53	14.66	430.00	148.48	39.83	6.53	14.66	430.00		
Feb-25	1st Fortnight	155.04	86.5	34.37	8.85	14.54	390.00	140.77	76.77	35.28	6.86	14.43	420.00	144.77	39.83	6.5	14.4	410.00	144.77	39.83	6.5	14.4	410.00	144.77	39.83	6.5	14.4	410.00	144.77	39.83	6.5	14.4	410.00		
	2nd Fortnight	137.28	72.83	32.99	8.19	14.87	360.00	155.55	79.58	33.83	6.54	14.66	380.00	148.76	39.83	6.2	15.14	390.00	148.76	39.83	6.2	15.14	390.00	148.76	39.83	6.2	15.14	390.00	148.76	39.83	6.2	15.14	390.00		
Mar-25	1st Fortnight	135.262	78.69	34.87	7.02	14.71	370.00	133.82	69.3	32.94	7.38	15.13	390.00	123.83	39.86	6.88	14.69	370.00	123.83	39.86	6.88	14.69	370.00	123.83	39.86	6.88	14.69	370.00	123.83	39.86	6.88	14.69	370.00		
	2nd Fortnight																																		

Location-->	Koyad										Lakshat										Gopavara									
Months year	SPM	PM 10	PM 2.5	SO2	NOx	CO	TPH	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						
Oct-24	gasometer																													
	Land	5650 µg/m3	1800 µg/m3	80 µg/m3	80 µg/m3	4000 µg/m3	500 µg/m3	100 µg/m3	100 µg/m3	100 µg/m3	80 µg/m3	4000 µg/m3	500 µg/m3	1200 µg/m3	80 µg/m3	100 µg/m3	100 µg/m3	80 µg/m3	4000 µg/m3	500 µg/m3	1200 µg/m3	80 µg/m3	100 µg/m3	4000 µg/m3						
Nov-24	1st Fortnight	114.45	67.61	24.38	6.00	33.16	276.00	121.6	71.13	29.83	6.30	13.13	295.00	118.94	60.22	38.93	6.90	13.01	290.00	118.94	60.22	38.93	6.90	290.00						
	2nd Fortnight	113.42	62.37	26.25	6.00	13.79	320.00	136.22	69.76	35.22	6.80	13.2	310.00	126.77	70.09	33.31	6.84	13.79	260.00	126.77	70.09	33.31	6.84	260.00						
Dec-24	1st Fortnight	127.2	63.98	34.31	6.00	13.61	320.00	119.00	65.08	28.20	6.20	11.78	290.00	122.88	71.68	25.45	6.80	13.88	260.00	122.88	71.68	25.45	6.80	260.00						
	2nd Fortnight	153.2	74.29	27.43	6.00	12.86	290.00	152.18	74.83	42.7	6.50	13.19	270.00	138.99	75.6	26.12	6.90	13.96	260.00	138.99	75.6	26.12	6.90	260.00						
Jan-25	1st Fortnight	118.74	63.76	28.36	6.00	12.95	420.00	112.29	64.85	33.19	6.80	13.55	410.00	114.86	66.26	24.53	7.15	13.76	340.00	114.86	66.26	24.53	7.15	340.00						
	2nd Fortnight	115.57	72.48	26.45	6.00	13.98	340.00	122.88	64.98	29.52	6.50	13.89	300.00	136.23	67.43	26.7	6.80	13.35	370.00	136.23	67.43	26.7	6.80	370.00						
Feb-25	1st Fortnight	127.08	71.04	29.68	6.00	13.89	320.00	125.81	63.16	25.19	6.20	13.84	360.00	167.42	89.19	25.77	6.90	13.63	340.00	167.42	89.19	25.77	6.90	340.00						
	2nd Fortnight	135.76	73.7	34.04	6.00	13.22	290.00	137.41	66.74	27.8	6.50	13.37	310.00	138.47	70.89	26.67	6.80	13.75	310.00	138.47	70.89	26.67	6.80	310.00						
Mar-25	1st Fortnight	105.77	51.22	23.98	6.00	13.26	290.00	101.99	57.03	24.84	6.50	13.71	310.00	118.29	62.96	27.53	6.80	12.90	370.00	118.29	62.96	27.53	6.80	370.00						
	2nd Fortnight	149.05	73.87	32.75	6.00	13.36	320.00	121.63	67.47	27.58	6.90	13.82	330.00	132.58	71.76	23.77	6.80	13.53	360.00	132.58	71.76	23.77	6.80	360.00						
Apr-25	1st Fortnight	136.87	66.09	27.11	6.00	13.42	330.00	125.76	61.01	21.26	6.80	13.83	290.00	134.58	56.38	25.61	6.80	13.75	370.00	134.58	56.38	25.61	6.80	370.00						
	2nd Fortnight	125.23	75.7	26	6.00	15.21	340.00	134.23	72.08	29.55	6.24	13.89	330.00	125.85	77.52	27.42	6.88	13.17	360.00	125.85	77.52	27.42	6.88	360.00						

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TEAM TEST HOUSE

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



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

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ISO 9001:2015

ISO 14001:2015

ISO 45001:2018 (OH&S)

IDA/UDH

Office : E-65, Chitranjan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : +91 8177210064, 9414077379,
Website : www.teamtesthouse.com
Email : team.bhhead@gmail.com

Laboratory : G-150, MICO Industrial Area,
Sitapura, Jaipur - 302013, Rajasthan
Phone : +91 9460220019, 9460220019,
Email : Director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

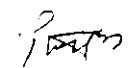
Report No / ULR No	24400001870	Date	29-10-2024
Issued To	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer, Rajasthan.	Type of Unit	Mines
Type of sample / Discipline	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection Monitoring	07-10-2024 12 42 to 08-10-2024 12 42
Point of Collection	Near Sub Station	Date of Sample Receipt	10-10-2024
Date of Test	10-10-2024 to 21-10-2024	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]	370	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]	14.82	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) :1974	100.00
	Suspended Particulate Matter (SPM) [microgram/m3]	149.13	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	32.31	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.53	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	81.69	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 :-

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


Rajesh Maheshwari
Authorized Signatory
(Report No: 24400001870)

TEAM TEST HOUSE

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

TEAM

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

RSPCB

ISO 9001:2015

ISO 14001:2015

ISO 45001:2018 (OHS)

ISO 17025

Office : F-65, Chitrangan Marg,

C-Scheme, Jaipur - 302001, Rajasthan

Phone : +91 6377210064, 9414077379,

Website : www.teamtesthouse.com

Email : team.bdheada@gmail.com

Lab. Address : C-1, P.O. RHC, Chitrangan Marg, C-Scheme

Jaipur - 302001, Rajasthan

Phone : +91 6377210064, 9414077379,

Email : office@teamtesthouse.com,

Email : marketing@teamtesthouse.com

TEST REPORT

Report No /ULR No	400001870	Date	29-10-2024
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	07-10-2024 12.42 to 08-10-2024 12.42
Point of Collection	Near Sub Station	Date of Sample Receipt	10-10-2024
Date of Test	10-10-2024 to 21-10-2024	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 :-

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Senior Analyst
Puran Mal Yogi

Authorized Signatory
Rajesh Maheshwari
(Report No: 400001870)

Office : E-65, Chitranjan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : +91 9460222030, 9460222049,
Website : www.teamtesthouse.com
Email : team.bdhead@gmail.com

Laboratory : G1-504, RICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222030, 9460222049,
Email : director@teamtesthouse.com,
Email : marketing@teamtesthouse.com

TEST REPORT

Report No./ULR No	24400001871	Date :	29-10-2024
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 :	07-10-2024 12:54 to 08-10-2024 12:54
Point of Collection	Near CRF	Date of Sample Receipt :	10-10-2024
Date of Test :	10-10-2024 to 21-10-2024	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]	360	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]	14.47	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]	144.37	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	36.41	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.38	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	73.92	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]	8.4	TTH/AAQM/09	20.00

Notes :-

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

Signature
Pran Mal Yogi

Signature
Rajesh Maheshwari
Authorized Signatory
(Report No: 24400001871)

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

Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory
RSPCB ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 (OH&S) JDA/UDH

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

Laboratory : G-1-584, RICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

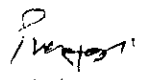
Report No./ULR No.	400001871	Date :	29-10-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	07-10-2024 12:54 to 08-10-2024 12:54
Point of Collection :	Near CRF	Date of Sample Receipt :	10-10-2024
Date of Test :	10-10-2024 to 21-10-2024	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 :-

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Senior Analyst
Prahlad Nigai Yogi


Authorized Signatory
Rajesh Maheshwari
(Report No: 400001871)

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JDA/UDH

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

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

TEST REPORT

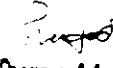
Report No./ULR No. :	24400001872	Date :	29-10-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	07-10-2024 12:56 to 08-10-2024 12:57
Point of Collection :	Near ANFO Station	Date of Sample Receipt :	10-10-2024
Date of Test :	10-10-2024 to 21-10-2024	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]	320	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]	14.76	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]	141.86	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	33.32	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.05	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	75.66	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]	8.2	TTH/AAQM/09	20.00

Notes -

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


Purni Mal Yogi


Rajesh Maheshwari
Authorized Signatory
(Report No: 24400001872)

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

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ISO 14001:2015

ISO 45001:2018 (OH&S)

ISO 10012

F-65, Chitranjan Marg,
Sikar, Jaipur - 302001, Rajasthan
Phone: +91 877710061, 9414077379
Website: www.teamtesthouse.com
Email: team.bhhead@gmail.com

Lab Address: C-150, RHC Industrial Area,
Sikar, Jaipur - 302022, Rajasthan
Phone: +91 8460220010, 8460220019
Email: director@teamtesthouse.com
Email: marketing@teamtesthouse.com

TEST REPORT

Report No /ULR No	400001872	Date	29-10-2024
Issued To	M/S Hindusthan Zinc Limited (Kavadi Mines) Village Kavadi, District Ajmer (Rajasthan)	Type of Unit	Mines
Type of sample / Discipline	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection Monitoring	07-10-2024 12:56 to 08-10-2024 12:57
Point of Collection	Near ANFO Station	Date of Sample Receipt	10-10-2024
Date of Test	10-10-2024 to 21-10-2024	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 -

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Senior Analyst
Purnan Mai Yogi


Rajesh Maheshwari
(Report No: 400001872)

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JDA/UDH

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

Laboratory : G1-544, RHICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	24400001873	Date :	29-10-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	08-10-2024 13:03 to 09-10-2024 13:03
Point of Collection :	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Sample Receipt :	10-10-2024
Date of Test :	10-10-2024 to 21-10-2024	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]	280	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.23	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	13.13	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) : 1974	100.00
	Suspended Particulate Matter (SPM) [microgram/m3]	121.5	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	26.83	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	71.13	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]	6.3	TTH/AAQM/09	20.00

Notes :-

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Senior Analyst
Prakash Mal Yogi

Authorized Signatory
Rajesh Maheshwari
(Report No: 24400001873)

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ISO 14001:2015,

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JDA/UDH

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

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

TEST REPORT

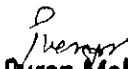
Report No./ULR No. :	400001873	Date :	29-10-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	08-10-2024 13:03 to 09-10-2024 13:03
Point of Collection :	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Sample Receipt :	10-10-2024
Date of Test :	10-10-2024 to 21-10-2024	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 :-

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Senior Analyst
Prahlad Mal Yogi


Authorized Signatory
Rajesh Maheshwari
(Report No: 400001873)

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



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ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 (OH&S) JDA/UDH

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

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

TEST REPORT

Report No./ULR No.:	24400001874	Date:	29-10-2024
Issued To:	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit:	Mines
Type of sample / Discipline:	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring:	08-10-2024 13:06 to 09-10-2024 13:06
Point of Collection:	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Sample Receipt:	10-10-2024
Date of Test:	10-10-2024 to 21-10-2024	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]	290	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]	13.01	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]	119.94	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	28.93	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]	69.22	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]	6.8	TTH/AAQM/09	20.00

Notes:-

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Signature: Prahlad Yogi

Signature: Rajesh Maheshwari
Authorized Signatory
(Report No: 24400001874)

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

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

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

TEST REPORT

Report No./ULR No. :	400001874	Date :	29-10-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	08-10-2024 13:06 to 09-10-2024 13:06
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Sample Receipt :	10-10-2024
Date of Test :	10-10-2024 to 21-10-2024	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

Unit's representative :

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

- Notes :-
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Senior Analyst
Prahlad Mal Yogi


Authorized Signatory
Rajesh Maheshwari
(Report No: 400001874)

TEAM TEST HOUSE

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



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

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

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 (OH&S)

JDA/UDH

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

TEST REPORT

Report No./ULR No. :	24400001875	Date :	29-10-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	08-10-2024 13:08 to 09-10-2024 13:08
Point of Collection	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Sample Receipt :	10-10-2024
Date of Test :	10-10-2024 to 21-10-2024	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]	270	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]	13.16	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]	144.45	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	24.39	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]	67.61	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	8.7	TTH/AAQM/09	20.00

Notes :-

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Prahlad Yogi
Rajan Yogi
Senior Analyst

Rajesh Moheshwari
Rajesh Moheshwari
(Report No: 24400001875)

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

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

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ISO 14001:2015,

ISO 45001:2018 (OH&S)

JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	400001875	Date :	29-10-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	08-10-2024 13:08 to 09-10-2024 13:08
Point of Collection :	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Sample Receipt :	10-10-2024
Date of Test :	10-10-2024 to 21-10-2024	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 :-

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Senior Analyst

Prahlad Yogi

Rajesh Maheshwari
(Report No: 400001875)



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

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

TEST REPORT

Report No./ULR No. :	24400001877	Date :	29-10-2024
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 :	17-10-2024 12:28 to 18-10-2024 12:28
Point of Collection	Near Sub Station	Date of Receipt :	19-10-2024
Date of Test/Analysis :	19-10-2024 to 29-10-2024	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]	370	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]	14.6	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]	141.14	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	30.52	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.06	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	73.67	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]	8.1	TTH/AAQM/09	20.00

Notes :-

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Anil K. Yogi
Senior Analyst

Rajesh Mishreshwari
Authorized Signatory
(Report No: 24400001877)

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

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

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ISO 45001:2018 (OH&S)

JDAA/DR

Office : E-65, Chitrangan Marg,

C-Scheme, Jaipur - 302001, Rajasthan

Phone : +91 6377210064, 041 4077179,

Website : www.teamtesthouse.com

Email : team.bhaskar@gmail.com

Laboratory : C-194, RHC Industrial Area,

Sitapura, Jaipur - 302017, Rajasthan

Phone : +91 9460222019, 9460222049,

Email : director@teamtesthouse.com,

Email : marketing@teamtesthouse.com

TEST REPORT

Report No./ULR No	400001877	Date	29-10-2024
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	17-10-2024 12 28 to 18-10-2024 12 28
Point of Collection	Near Sub Station	Date of Receipt	19-10-2024
Date of Test/Analysis	19-10-2024 to 29-10-2024	Sampling Plan	IS 5182 2000(Part 14)RA 2014
Quantity of Sample	-	Sample Collected By	Sitaram jangid
Unit's representative	Mr Prakash Sharma	Condition of Sample	Fit for testing

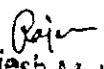
RESULTS

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

Notes :-

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Purni Marjogi
Senior Analyst


Rajesh Singh
Authorized Signatory
(Report No: 400001877)

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



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

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

ISO 9001:2015,

ISO 14001:2015,

ISO 45001:2018 (OH&S)

JDA/UDH

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

TEST REPORT

Report No /ULR No :	24400001878	Date :	29-10-2024
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 :	17-10-2024 12:29 to 18-10-2024 12:29
Point of Collection :	Near CRF	Date of Receipt :	19-10-2024
Date of Test/Analysis :	19-10-2024 to 29-10-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL (<20.0)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	410	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]	14.45	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) :1974	100.00
	Suspended Particulate Matter (SPM) [microgram/m3]	147.9	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	33.94	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.89	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	74.77	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	4.9	TTH/AAQM/09	20.00

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[Signature]
Rajesh Mishra

[Signature]
Rajesh Mishra
Report No. 24400001878)

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

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

RSPCB

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ISO 14001:2015,

ISO 45001:2018 (OH&S)

JDA/UDH

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

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

TEST REPORT

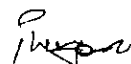
Report No./ULR No. :	400001878	Date :	29-10-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	17-10-2024 12:29 to 18-10-2024 12:29
Point of Collection :	Near CRF	Date of Receipt :	19-10-2024
Date of Test/Analysis :	19-10-2024 to 29-10-2024	Sampling Plan :	IS 5182:2000(Part 14)/RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

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

Notes :-

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Pawan Arora
Senior Analyst


Rajesh Singh
Authorized Signatory
(Report No: 400001878)

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



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RSPCB ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 (OH&S) JDA/UDH

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

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

TEST REPORT

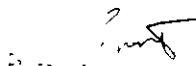
Report No./ULR No.	24400001879	Date	29-10-2024
Issued To	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit	Mines
Type of sample / Discipline	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring	17-10-2024 12:30 to 18-10-2024 12:30
Point of Collection	Near ANFO Station	Date of Receipt	19-10-2024
Date of Test/Analysis	19-10-2024 to 29-10-2024	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

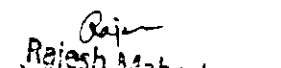
RESULTS

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]	340	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.22	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.16	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]	135.96	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	39.43	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.18	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	68.26	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	TTH/AAQM/09	20.00

Notes :-

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Yogendra Singh
Authorized Signatory


Rajesh Singh
Authorized Signatory
(Report No: 24400001879)

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JDA/UDH

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

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

TEST REPORT

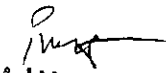
Report No./ULR No. :	400001879	Date :	29-10-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	17-10-2024 12:30 to 18-10-2024 12:30
Point of Collection :	Near ANFO Station	Date of Receipt :	19-10-2024
Date of Test/Analysis :	19-10-2024 to 29-10-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

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

Notes :-

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Purnima Singh
Senior Analyst


Rajesh Singh
Authorized Signatory
(Report No: 400001879)

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



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	24400001880	Date :	29-10-2024
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 :	18-10-2024 12:31 to 19-10-2024 12:31
Point of Collection :	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	19-10-2024
Date of Test/Analysis :	19-10-2024 to 29-10-2024	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]	310	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]	13.2	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]	130.22	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	35.22	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]	69.76	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	13.1	TTH/AAQM/09	20.00

Notes -

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[Signature]
Rajesh Maheshwari

[Signature]
Rajesh Maheshwari
Authorized Signatory
(Report No: 24400001880)

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

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

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JDA/UDH

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

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

TEST REPORT

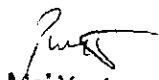
Report No./ULR No. :	400001880	Date :	29-10-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	18-10-2024 12:31 to 19-10-2024 12:31
Point of Collection :	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	19-10-2024
Date of Test/Analysis :	19-10-2024 to 29-10-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

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

Notes :-

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Furen Maiti Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: 400001880)

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



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Plot No. E-65, Chitrangan Marg,
Jaipur - 302001, Rajasthan
Phone : +91 6377210064, 9414077379,
Website : www.teamtesthouse.com
Email : team.bdhead@gmail.com

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

TEST REPORT

Report No./ULR No. :	24400001881	Date :	29-10-2024
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 :	18-10-2024 12:32 to 19-10-2024 12:32
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	19-10-2024
Date of Test/Analysis :	19-10-2024 to 29-10-2024	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]	280	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.17	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	13.79	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]	120.77	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	33.31	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.04	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	75.59	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]	7.2	TTH/AAQM/09	20.00

- Notes :-
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[Signature]
Rajesh Maheshwari
Authorized Signatory

[Signature]
Rajesh Maheshwari
Authorized Signatory
(Report No: 24400001881)



TEAM TEST HOUSE

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

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

RSPCB

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ISO 14001:2015,

ISO 45001:2018 (OH&S)

JDA UDH

Office : E-65, Chitrangan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : +91 9460221039, 9460221049,
Website : www.teamtesthouse.com
Email : team.bdbhead@gmail.com

Laboratory : G1, 584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460221039, 9460221049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No	400001881	Date	29-10-2024
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	18-10-2024 12:32 to 19-10-2024 12:32
Point of Collection	Gagwana Village (26°31'44.4"N, 74°43'20.1"E)	Date of Receipt	19-10-2024
Date of Test/Analysis	19-10-2024 to 29-10-2024	Sampling Plan	IS 5182 2000(Part 14)RA 2014
Quantity of Sample	-	Sample Collected By	Sitaram Jangid
Unit's representative	Mr Prakash Sharma	Condition of Sample	Fit for testing

RESULTS

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

Notes :-

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Purnima Yogi
Senior Analyst


Rajesh Nigeshwari
Authorized Signatory
(Report No: 400001881)



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



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	24400001882	Date :	29-10-2024
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 :	18-10-2024 12:33 to 19-10-2024 12:33
Point of Collection :	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Receipt :	19-10-2024
Date of Test/Analysis :	19-10-2024 to 29-10-2024	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]	0.15	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	13.78	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]	113.42	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	26.25	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]	62.37	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	4.6	TTH/AAQM/09	20.00

Notes :-

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

Rajesh Maheshwari

Rajesh Maheshwari
Authorized Signatory
(Report No: 24400001882)



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JDA UDH

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

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

TEST REPORT

Report No./ULR No. :	400001882	Date :	29-10-2024
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 :	18-10-2024 12:33 to 19-10-2024 12:33
Point of Collection :	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Receipt :	19-10-2024
Date of Test/Analysis :	19-10-2024 to 29-10-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

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

Notes :-

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Puran Mai Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 400001882)



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

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

TEST REPORT

Report No./ULR No	24400002079	Date	25-11-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	11-11-2024 11:32 to 12-11-2024 11:32
Point of Collection	Near Sub Station	Date of Sample Receipt :	13-11-2024
Date of Test :	13-11-2024 to 25-11-2024	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]	340	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]	14.86	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]	144.95	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	33.91	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.48	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	74.78	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]	6.2	TTH/AAQM/09	20.00

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25/11/2024

Authorized Signatory
(Report No. 24400002079)



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JDA-UDH

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

Laboratory : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
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TEST REPORT

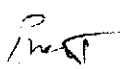
Report No./ULR No. :	400002079	Date :	25-11-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	11-11-2024 11:32 to 12-11-2024 11:32
Point of Collection :	Near Sub Station	Date of Sample Receipt :	13-11-2024
Date of Test :	13-11-2024 to 25-11-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

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

Notes :-

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Senior Analyst


Authorized Signatory
(Report No: 400002079)



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

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

TEST REPORT

Report No./ULR No.:	24400002080	Date :	25-11-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	11-11-2024 11:34 to 12-11-2024 11:34
Point of Collection :	Near CRF	Date of Sample Receipt :	13-11-2024
Date of Test :	13-11-2024 to 25-11-2024	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]	0.12	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.62	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]	131.7	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	30.75	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.67	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	68.79	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]	5.9	TTH/AAQM/09	20.00

Notes :-

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Senior Analyst

Authorized Signatory
Report No. 24400002080



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JDA/UDH

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

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

TEST REPORT

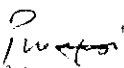
Report No./ULR No. :	400002080	Date :	25-11-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	11-11-2024 11:34 to 12-11-2024 11:34
Point of Collection :	Near CRF	Date of Sample Receipt :	13-11-2024
Date of Test :	13-11-2024 to 25-11-2024	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

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Senior Analyst


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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	24400002081	Date :	25-11-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	11-11-2024 11:35 to 12-11-2024 11:35
Point of Collection :	Near ANFO Station	Date of Sample Receipt :	13-11-2024
Date of Test :	13-11-2024 to 25-11-2024	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]	310	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]	14.66	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]	146.3	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	30.56	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.27	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	83.01	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	TTH/AAQM/09	20.00

Notes :-

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Senior Analyst

Authorized Signatory

Report No. 24400002081



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JDA/UDH

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

Laboratory : G1-584, RICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222039, 9460222049,
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TEST REPORT

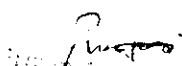
Report No./ULR No. :	400002081	Date :	25-11-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	11-11-2024 11:35 to 12-11-2024 11:35
Point of Collection :	Near ANFO Station	Date of Sample Receipt :	13-11-2024
Date of Test :	13-11-2024 to 25-11-2024	Sampling Plan :	IS 5182 2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

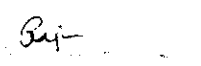
RESULTS

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

Notes -

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Senior Analyst


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

TEST REPORT

Report No./ULR No. :	24400002082	Date :	25-11-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	11-11-2024 11:36 to 12-11-2024 11:36
Point of Collection	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Sample Receipt :	13-11-2024
Date of Test :	13-11-2024 to 25-11-2024	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]	280	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]	11.78	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]	119.05	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	28.25	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	65.08	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]	5.9	TTH/AAQM/09	20.00

Notes :-

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Senior Analyst,

Authorized Signatory
(Report No: 24400002082)

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

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

TEST REPORT

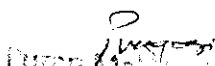
Report No./ULR No. :	400002082	Date :	25-11-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	11-11-2024 11:36 to 12-11-2024 11:36
Point of Collection :	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Sample Receipt :	13-11-2024
Date of Test :	13-11-2024 to 25-11-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

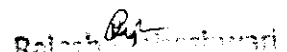
RESULTS

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

Notes :-

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Senior Analyst


Authorized Signatory
(Report No: 400002082)



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JDA/UDH

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

Laboratory : G1-584, RICO Industrial Area,
Sitapura, Jaipur - 302012, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No.:	24400002083	Date :	25-11-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	11-11-2024 11:37 to 12-11-2024 11:37
Point of Collection :	Gagwana Village (26°31'44.4"N, 74°43'20.1"E)	Date of Sample Receipt :	13-11-2024
Date of Test :	13-11-2024 to 25-11-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sataram Jagad
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 9) 2018	400.00
2	Carbon Monoxide [microgram/m3]	290	TTH/AAQI 1999	4000
3	Lead [microgram/m3]	0.18	IS 5182 (Part 14) 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	13.89	IS 5182 (Part 14) 2006 Reaffirmed 2019	80.00
5	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	122.86	IS 5182 (Part 4) 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	25.45	IS 5182 (Part 4) 2019	60.00
8	Sulphur Dioxide [microgram/m3]	Less than 6.0	IS 5182 (Part 14) 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	71.09	IS 5182 (Part 14) 2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/A/	6.00
11	Nickel [ng/m3]	5.9	TTH/AAQI 1999	20.00

Notes :-

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Tested not certified
This report is not to be used for any other purpose.

Senior Analyst

Authorized Signatory
Phone : 244 0012 83



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ISO 45001:2018 (OH&S)

JDA/UDH

Office : E-65, Chitrangan Marg,
C-Scheme, Jaipur - 302002, Rajasthan
Phone : +91 6377210061, 63771407
Website : www.teamtesthouse.com
Email : team.bdhead@gmail.com

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

TEST REPORT

Report No./U/R No. :	400002083	Date :	25-11-2024
Issued To :	Team Rajasthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	11-11-2024 11:37 to 12-11-2024 11:37
Point of Collection :	Garwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Sample Receipt :	13-11-2024
Date of Test :	13-11-2024 to 25-11-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative	Mr. Ranish 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 -

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Senior Analyst

Authorized Signatory
(Report No: 400002083)



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

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

TEST REPORT

Report No./ULR No.:	24400002084	Date :	25-11-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	11-11-2024 11:38 to 12-11-2024 11:38
Point of Collection	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Sample Receipt :	13-11-2024
Date of Test :	13-11-2024 to 25-11-2024	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]	0.15	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	13.63	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]	127.2	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	24.31	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]	63.98	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	4.9	TTH/AAQM/09	20.00

Notes :

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Analyst

Authorized Signatory
(Report No: 24400002084)



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

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

TEST REPORT

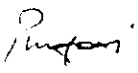
Report No./ULR No. :	400002084	Date :	25-11-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	11-11-2024 11:38 to 12-11-2024 11:38
Point of Collection :	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Sample Receipt :	13-11-2024
Date of Test :	13-11-2024 to 25-11-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

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

Notes :-

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Senior Analyst
Puran Mal Yadav


Authorized Signatory
(Report No: 400002084)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	24400002123	Date :	03-12-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	21-11-2024 12:19 to 22-11-2024 12:19
Point of Collection	Near CRF	Date of Receipt :	25-11-2024
Date of Test/Analysis :	25-11-2024 to 03-12-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(< 20)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	370	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]	14.97	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]	151.77	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	33.68	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.82	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	80.08	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]	5.6	TTH/AAQM/09	20.00

Notes -

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari

Authorized Signatory

(Report No: 24400002123)



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JDA 1113

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

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

TEST REPORT

Report No./ULR No. :	400002123	Date :	03-12-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	21-11-2024 12:19 to 22-11-2024 12:19
Point of Collection :	Near CRF	Date of Receipt :	25-11-2024
Date of Test/Analysis :	25-11-2024 to 03-12-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

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

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Puran Maheshwari
Senior Analyst

Rakesh Maheshwari
Authorized Signatory
(Report No: 400002123)



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



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No.:	24400002122	Date :	03-12-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	21-11-2024 12:18 to 22-11-2024 12:18
Point of Collection	Near Sub Station	Date of Receipt :	25-11-2024
Date of Test/Analysis :	25-11-2024 to 03-12-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(< 20)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	320	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]	14.27	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]	167.09	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	34.32	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.7	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	78.6	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]	6.5	TTH/AAQM/09	20.00

Notes:

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Rajesh Maheshwari
Authorized Signatory

(Report No: 24400002122)



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

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11/11

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

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

TEST REPORT

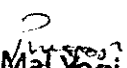
Report No./ULR No. :	400002122	Date :	03-12-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	21-11-2024 12:18 to 22-11-2024 12:18
Point of Collection :	Near Sub Station	Date of Receipt :	25-11-2024
Date of Test/Analysis :	25-11-2024 to 03-12-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

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

Notes :-

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Puran Majhi
Senior Analyst


Rakesh M. Sharma
Authorized Signatory
(Report No: 400002122)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	24400002124	Date :	03-12-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	21-11-2024 12:20 to 22-11-2024 12:20
Point of Collection :	Near ANFO Station	Date of Receipt :	25-11-2024
Date of Test/Analysis :	25-11-2024 to 03-12-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(< 20)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	310	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]	14.76	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]	158.64	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	30.8	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.19	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	78.85	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Copper [ng/m3]	8.5	TTH/AAQM/09	20.00

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Puran Mayi Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 24400002124)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	400002124	Date :	03-12-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	21-11-2024 12:20 to 22-11-2024 12:20
Point of Collection :	Near ANFO Station	Date of Receipt :	25-11-2024
Date of Test/Analysis :	25-11-2024 to 03-12-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

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

Notes -

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Purni Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 400002124)



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

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

TEST REPORT

Report No./ULR No. :	24400002127	Date :	03-12-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	21-11-2024 12:23 to 22-11-2024 12:23
Point of Collection	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Receipt :	25-11-2024
Date of Test/Analysis :	25-11-2024 to 03-12-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(< 20)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	280	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]	12.86	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]	153.2	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	27.43	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]	74.29	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]	6.6	TTH/AAQM/09	20.00

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Puran Maurya
Senior Analyst

Rakesh Mathur
(Report No: 24400002127)



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JDA UDH

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

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

TEST REPORT

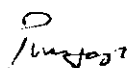
Report No./ULR No. :	400002127	Date :	03-12-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	21-11-2024 12:23 to 22-11-2024 12:23
Point of Collection :	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Receipt :	25-11-2024
Date of Test/Analysis :	25-11-2024 to 03-12-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

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

Notes -

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Purnan Maji Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: 400002127)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No.	24400002126	Date :	03-12-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	21-11-2024 12:22 to 22-11-2024 12:22
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	25-11-2024
Date of Test/Analysis :	25-11-2024 to 03-12-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(< 20)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	260	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]	13.99	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]	159.59	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	26.12	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	75.6	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]	7.8	TTH/AAQM/09	20.00

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Prakash Sharma
Authorized Signatory

Reesh Maheshwari
Authorized Signatory

(Report No: 24400002126)



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JDA 1 DH

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

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

TEST REPORT

Report No./ULR No.:	400002126	Date :	03-12-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	21-11-2024 12:22 to 22-11-2024 12:22
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	25-11-2024
Date of Test/Analysis :	25-11-2024 to 03-12-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

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

Notes :

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Puran Mal Yogi
Senior Analyst

Rakesh Maheshwari
Authorized Signatory
(Report No: 400002126)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	24400002125	Date :	03-12-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	21-11-2024 12:21 to 22-11-2024 12:21
Point of Collection :	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	25-11-2024
Date of Test/Analysis :	25-11-2024 to 03-12-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(< 20)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	270	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]	13.19	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]	152.16	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	42.7	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]	74.63	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]	8.8	TTH/AAQM/09	20.00

Notes:

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Yogi
31 Yogi

Rajesh
Rajesh Maheshwari

(Report No: 24400002125)



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JDAI DH

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

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

TEST REPORT

Report No./ULR No. :	400002125	Date :	03-12-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	21-11-2024 12:21 to 22-11-2024 12:21
Point of Collection :	Lohagal Village (26°31'08.7"N, 74°39'30.8"E)	Date of Receipt :	25-11-2024
Date of Test/Analysis :	25-11-2024 to 03-12-2024	Sampling Plan :	IS 5182.2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

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

Notes -

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Puran Mai Yogi
Senior Analyst

Rajesh Khatkhatwari
Authorized Signatory
(Report No: 400002125)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No.:	24400002321	Date :	27-12-2024
Issued To	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	09-12-2024
Point of Collection	Near Sub Station	Date of Sample Receipt :	12-12-2024
Date of Test :	12-12-2024 to 27-12-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample		Sample Collected By :	Rakesh Sharma
	Rakesh Sharma	Condition of Sample :	Fit for testing

RESULTS

	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
Carbon Monoxide [microgram/m3]	BDL(< 20)	IS 5182 (Part 25) : 2018	400.00
Carbon Monoxide [microgram/m3]	450	TTH/AAQM/08	4000
Carbon Monoxide [microgram/m3]	0.13	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
Nitrogen Dioxide as NO2 [microgram/m3]	14.53	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) : 1974	100.00
Suspended Particulate Matter (SPM) [microgram/m3]	154.82	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
Particulate Matter (PM2.5) [microgram/m3]	34.52	IS 5182 (Part 24) : 2019	60.00
Sulphur Dioxide [microgram/m3]	6.28	IS 5182 (Part 2) : 2001 RA 2017	80.00
Particulate Matter (PM 10) [microgram/m3]	79.95	IS 5182 (Part 23)-2006 RA 2017	100.00
Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
Nickel [ng/m3]	3.6	TTH/AAQM/09	20.00

Notes

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Purnan Majhi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 24400002321)



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

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JDA/CDH

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

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

TEST REPORT

Report No./ULR No. :	400002321	Date :	27-12-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring	09-12-2024
Point of Collection :	Near Sub Station	Date of Sample Receipt :	12-12-2024
Date of Test :	12-12-2024 to 27-12-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample	Fit for testing

RESULTS

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

Notes :-

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Purani Maheshwari
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No. 400002321)



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



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No.	24400002322	Date :	27-12-2024
Issued To	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	09-12-2024
Point of Collection	Near CRF	Date of Sample Receipt :	12-12-2024
Date of Test :	12-12-2024 to 27-12-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(< 20)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	520	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]	14.78	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]	123.79	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	32.36	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.45	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	66.7	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 :-
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Puran Mal Yogi

Rajesh Maheshwari
Authorized Signatory
(Report No: 24400002322)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	400002322	Date :	27-12-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	09-12-2024
Point of Collection :	Near CRF	Date of Sample Receipt :	12-12-2024
Date of Test :	12-12-2024 to 27-12-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

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

Notes :

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Senior Analyst


Rajesh Maheshwari
(Report No: 400002322)



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

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

TEST REPORT

Report No /ULR No.	24400002323	Date	27-12-2024
Issued To	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit	Mines
Type of sample / Discipline	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring	09-12-2023
Point of Collection	Near ANFO Station	Date of Sample Receipt	12-12-2024
Date of Test	12-12-2024 to 27-12-2024	Sampling Plan	IS 5182:2000(Part 14)RA 2014
Quantity of Sample	-	Sample Collected By	Rakesh Sharma
Unit's representative	Mr Prakash Sharma	Condition of Sample	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(< 20)	IS 5182 (Part 25) 2018	400.00
2	Carbon Monoxide [microgram/m3]	480	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]	14.68	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]	151.08	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	31.65	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.83	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	78.33	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]	4.1	TTH/AAQM/09	20.00

Notes :-

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Puran Mal Yogi
Sr. Analyst

Rakesh Maheshwari

(Report No: 24400002323)



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JDA U D

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

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

TEST REPORT

Report No./ULR No.:	400002323	Date :	27-12-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	09-12-2023
Point of Collection :	Near ANFO Station	Date of Sample Receipt :	12-12-2024
Date of Test :	12-12-2024 to 27-12-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

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

Notes :-

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Puran Maheshwari
Puran Maheshwari
Senior Analyst

Rajesh Maheshwari
Rajesh Maheshwari
(Report No: 400002323)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	24400002324	Date :	27-12-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	10-12-2024
Point of Collection	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Sample Receipt :	12-12-2024
Date of Test :	12-12-2024 to 27-12-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(< 20)	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]	13.55	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]	112.29	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	33.19	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]	64.95	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 :-

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Purush Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory

(Report No. 24400002324)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	400002324	Date :	27-12-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	10-12-2024
Point of Collection	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Sample Receipt :	12-12-2024
Date of Test :	12-12-2024 to 27-12-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

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

Notes :

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Puram Mal
Puram Mal Yogi
Senior Analyst

Rajesh Maheshwari
Rajesh Maheshwari
Authorized Signatory
(Report No. 400002324)



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

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

TEST REPORT

Report No./ULR No. :	24400002325	Date :	27-12-2024
Issued To	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	10-12-2024
Point of Collection	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Sample Receipt :	12-12-2024
Date of Test :	12-12-2024 to 27-12-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(< 20)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	340	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]	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]	114.96	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	24.53	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	7.15	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	59.38	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:

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Purush Majhi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 24400002325)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	400002325	Date :	27-12-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	10-12-2024
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Sample Receipt :	12-12-2024
Date of Test :	12-12-2024 to 27-12-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

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

Notes :-

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Puran Mal Yogi
Senior Analyst

Rakesh Maheshwari
Authorized Signatory
(Report No: 400002325)



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

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

TEST REPORT

Report No./ULR No.	24400002326	Date :	27-12-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	10-12-2024
Point of Collection	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Sample Receipt :	12-12-2024
Date of Test :	12-12-2024 to 27-12-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(< 20)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	420	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]	12.95	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]	118.74	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	28.36	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	63.75	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	3.3	TTH/AAQM/09	20.00

Notes -

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Puran Mathyogi

Senior Analyst

Rajesh Maheshwari

(Report No. 24400002326)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	400002326	Date :	27-12-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	10-12-2024
Point of Collection :	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Sample Receipt :	12-12-2024
Date of Test :	12-12-2024 to 27-12-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

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

Notes -

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Puran Mal Yogi
Senior Analyst

Rakesh Maheshwari
Authorized Signatory
(Report No. 400002326)

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



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JDA/UDH

Address: Chhatranjan Marg,
Jaipur - 302001, Rajasthan
Phone: +91 9460222039, 9414077379,
www.teamtesthouse.com
Email: teambdhead@gmail.com

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

TEST REPORT

Report No./ULR No.	24400002356	Date	27-12-2024
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	18-12-2024 14:20 to 19-12-2024 14:20
Point of Collection	Near Sub Station	Date of Receipt	24-12-2024
Date of Test/Analysis	24-12-2024 to 27-12-2024	Sampling Plan	IS 5182:2000(Part 14)RA 2014
Quantity of Sample	-	Sample Collected By	Rakesh Sharma
Unit's representative	Mr Prakash Sharma	Condition of Sample	Fit for testing

RESULTS

S No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(< 20)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	510	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]	14.54	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]	144.04	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	32.03	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.03	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	71.8	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	2.4	TTH/AAQM/09	20.00

Notes:

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No. 24400002356)



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JDA-1 DH

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

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

TEST REPORT

Report No./ULR No.	400002356	Date	27-12-2024
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	18-12-2024 14:20 to 19-12-2024 14:20
Point of Collection :	Near Sub Station	Date of Receipt :	24-12-2024
Date of Test/Analysis :	24-12-2024 to 27-12-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

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

Notes :-

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Puran Mal Yogi
Senior Analyst

Rakesh Maheshwari
Authorized Signatory
(Report No: 400002356)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No :	24400002357	Date :	27-12-2024
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 :	18-12-2024 14:23 to 19-12-2024 14:23
Point of Collection	Near CRF	Date of Receipt :	24-12-2024
Date of Test/Analysis	24-12-2024 to 27-12-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample	Fit for testing

RESULTS

S No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(< 20)	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]	14.89	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]	157.52	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	36.8	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	7.46	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	82.13	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]	4.4	TTH/AAQM/09	20.00

Notes

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

Rajesh Maheshwari
Authorized Signatory

(Report No. 24400002357)



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JDAA DU

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

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

TEST REPORT

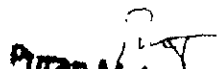
Report No./ULR No.	400002357	Date	27-12-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	18-12-2024 14:23 to 19-12-2024 14:23
Point of Collection	Near CRF	Date of Receipt :	24-12-2024
Date of Test/Analysis :	24-12-2024 to 27-12-2024	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 :

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Anjan Malhotra
Senior Analyst


Rakesh Maheshwari
Authorized Signatory
(Report No. 400002357)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	24400002358	Date :	27-12-2024
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 :	18-12-2024 14:30 to 19-12-2024 14:30
Point of Collection	Near ANFO Station	Date of Receipt :	24-12-2024
Date of Test/Analysis :	24-12-2024 to 27-12-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(< 20)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	470	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]	14.79	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]	160.76	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	35.36	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.04	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	84.25	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	3.4	TTH/AAQM/09	20.00

Notes :

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No. 24400002358)



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

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

TEST REPORT

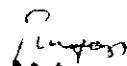
Report No./ULR No. :	400002358	Date :	27-12-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	18-12-2024 14:30 to 19-12-2024 14:30
Point of Collection :	Near ANFO Station	Date of Receipt :	24-12-2024
Date of Test/Analysis :	24-12-2024 to 27-12-2024	Sampling Plan :	IS 5182 2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

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

Notes :-

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Purnan Majhi
Senior Analyst


Rajesh Maheshwar
Authorized Signatory
(Report No. 400002358)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No	24400002360	Date :	27-12-2024
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 :	19-12-2024 14:37 to 20-12-2024 14:37
Point of Collection	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt	24-12-2024
Date of Test/Analysis :	24-12-2024 to 27-12-2024	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 :	Fil 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]	370	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]	13.35	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]	136.23	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	26.7	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]	67.43	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]	5.6	TTH/AAQM/09	20.00

Notes

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Rakesh Maheshwari
Authorized Signatory

Rakesh Maheshwari
Authorized Signatory

(Report No. 244C0002360)



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JDA/CDH

Office : F-65, Chitranjan Marg,
C-6 Scheme, Jaipur - 302001, Rajasthan
Phone : +91 6377210064, 9414077379,
Website : www.teamtesthouse.com
Email : team.bdhead@gmail.com

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

TEST REPORT

Report No./ULR No. :	400002360	Date :	27-12-2024
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 :	19-12-2024 14:37 to 20-12-2024 14:37
Point of Collection	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt	24-12-2024
Date of Test/Analysis :	24-12-2024 to 27-12-2024	Sampling Plan :	IS 5182 2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample	Fit for testing

RESULTS

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

Notes :

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Rakesh Maheshwari
Senior Analyst

Rakesh Maheshwari
Authorized Signatory
(Report No. 400002360)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	24400002359	Date :	27-12-2024
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 :	19-12-2024 14:36 to 20-12-2024 14:36
Point of Collection	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Receipt :	24-12-2024
Date of Test/Analysis :	24-12-2024 to 27-12-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(< 20)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	340	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]	13.59	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]	115.57	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	26.45	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]	72.48	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]	5.7	TTH/AAQM/09	20.00

Notes :-

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Purnan Malhotra
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 24400002359)



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

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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	400002359	Date :	27-12-2024
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 :	19-12-2024 14:36 to 20-12-2024 14:36
Point of Collection	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Receipt :	24-12-2024
Date of Test/Analysis	24-12-2024 to 27-12-2024	Sampling Plan :	IS 5182 2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

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

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
(Report No: 400002359)



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JDA/UDH

Office : E-65, Chitranganj Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : +91 6377211064, 9414077379,
Website : www.teamtesthouse.com
Email : team.bdhead@gmail.com

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

TEST REPORT

Report No./ULR No.	24400002361	Date	27-12-2024
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	19-12-2024 14:39 to 20-12-2024 14:39
Point of Collection	Kayad Village [26°31'44 3"N, 74°41'16.5"E]	Date of Receipt	24-12-2024
Date of Test/Analysis	24-12-2024 to 27-12-2024	Sampling Plan	IS 5182:2000(Part 14)RA 2014
Quantity of Sample	-	Sample Collected By	Rakesh Sharma
Unit's representative	Mr Prakash Sharma	Condition of Sample	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(< 20)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	360	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]	13.89	IS 5182 (Part 6) : 2008 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) : 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	122.59	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	29.62	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.96	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	68.39	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:

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[Signature]
Rajesh Maheshwari

[Signature]
Rajesh Maheshwari
Authorized Signatory
(Report No: 24400002361)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	400002361	Date :	27-12-2024
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 :	19-12-2024 14:39 to 20-12-2024 14:39
Point of Collection	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Receipt :	24-12-2024
Date of Test/Analysis :	24-12-2024 to 27-12-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

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

Notes :-

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Purni Mal Yogi
Senior Analyst


Rajesh Maheshwari
(Report No. 400002361)



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

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

TEST REPORT

Report No./ULR No. :	25400000130	Date :	22-01-2025
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 :	07-01-2025 11:09 to 08-01-2025 11:09
Point of Collection	Near Sub Station	Date of Receipt :	09-01-2025
Date of Test/Analysis :	09-01-2025 to 22-01-2025	Sampling Plan :	IS 5182 2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample	Fit for testing

RESULTS

S No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(< 20)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	460	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]	14.59	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]	142.86	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	31.67	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.54	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	72.54	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]	4.2	TTH/AAQM/09	20.00

Notes:

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Anil Yogi

Anil Yogi

Report No. 25400000130



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JDA & DH

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

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

TEST REPORT

Report No./ULR No. :	400000130	Date :	22-01-2025
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 :	07-01-2025 11:09 to 08-01-2025 11:09
Point of Collection :	Near Sub Station	Date of Receipt :	09-01-2025
Date of Test/Analysis :	09-01-2025 to 22-01-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

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

Notes :-

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[Signature]
Preeti Maheshwari

[Signature]
Rajesh Maheshwari
Authorized Signatory

(Report No: 400000130)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	25400000131	Date :	22-01-2025
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 :	07-01-2025 11:10 to 08-01-2025 11:10
Point of Collection :	Near CRF	Date of Receipt :	09-01-2025
Date of Test/Analysis :	09-01-2025 to 22-01-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(< 20)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	440	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]	14.3	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]	147.35	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	34.56	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.46	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	79.52	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

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Senior Analyst

Senior Analyst

Authorized Signatory
(Report No: 25400000131)



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JDAI DH

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

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

TEST REPORT

Report No./ULR No. :	400000131	Date :	22-01-2025
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 :	07-01-2025 11:10 to 08-01-2025 11:10
Point of Collection :	Near CRF	Date of Receipt :	09-01-2025
Date of Test/Analysis :	09-01-2025 to 22-01-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

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

Notes :

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Puran Mal Yogi
Senior Analyst

Rajesh Malhotra
(Report No: 400000131)



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ISO 45001:2018 (OH&S)

JDA UDH

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

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

TEST REPORT

Report No./ULR No.	25400000132	Date :	22-01-2025
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 :	07-01-2025 11:11 to 08-01-2025 11:11
Point of Collection	Near ANFO Station	Date of Receipt :	09-01-2025
Date of Test/Analysis :	09-01-2025 to 22-01-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(< 20)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	470	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]	14.95	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]	137.68	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	30.06	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.87	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	71.58	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]	4.4	TTH/AAQM/09	20.00

Notes :-

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Senior Analyst

Rajesh Maheshwari
Authorized Signatory

(Report No. 25400000132)



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JD A/1 D11

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

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

TEST REPORT

Report No./ULR No. :	400000132	Date :	22-01-2025
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 :	07-01-2025 11:11 to 08-01-2025 11:11
Point of Collection :	Near ANFO Station	Date of Receipt :	09-01-2025
Date of Test/Analysis :	09-01-2025 to 22-01-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

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

Notes :-

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Durjan Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 400000132)



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10-12-2017

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JDA/UDH

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

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

TEST REPORT

Report No./ULR No.	25400000133	Date :	22-01-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	06-01-2025 11:11 to 07-01-2025 11:12
Point of Collection	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	09-01-2025
Date of Test/Analysis :	09-01-2025 to 22-01-2025	Sampling Plan	IS 5182:2000(Part 14):RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(< 20)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	360	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]	13.04	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]	135.81	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	25.19	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]	63.16	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]	5.9	TTH/AAQM/09	20.00

Notes :

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Purandhar
Puran Mahi Yogi
Senior Analyst

Rajesh
Rajesh Maheshwari
(Report No. 25400000133)



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

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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	400000133	Date :	22-01-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	06-01-2025 11:11 to 07-01-2025 11:12
Point of Collection :	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	09-01-2025
Date of Test/Analysis :	09-01-2025 to 22-01-2025	Sampling Plan :	IS 5182 2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
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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Purnan Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 400000133)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	25400000134	Date :	22-01-2025
Issued To	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit	Mines
Type of sample / Discipline	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	06-01-2025 11:12 to 07-01-2025 11:12
Point of Collection	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	09-01-2025
Date of Test/Analysis :	09-01-2025 to 22-01-2025	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]	340	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]	13.83	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]	107.42	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	25.77	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]	59.19	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]	7.9	TTH/AAQM/09	20.00

Notes :

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Purnima Yogi
Senior Analyst

Anshu Maheshwari
(Report No: 25400000134)



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JDA/UDH

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

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

TEST REPORT

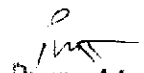
Report No./ULR No. :	400000134	Date :	22-01-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	06-01-2025 11:12 to 07-01-2025 11:12
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	09-01-2025
Date of Test/Analysis :	09-01-2025 to 22-01-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

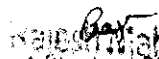
RESULTS

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

Notes :-

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Puran Mal Yogi
Senior Analyst


Rajeshwari
Authorized Signatory
(Report No: 400000134)



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JDA/UDH

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

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

TEST REPORT

Report No /ULR No.	25400000135	Date :	22-01-2025
Issued To	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	06-01-2025 11:13 to 07-01-2025 11:13
Point of Collection	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Receipt :	09-01-2025
Date of Test/Analysis :	09-01-2025 to 22-01-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(< 20)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	320	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]	13.89	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]	127.06	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	29.56	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	71.04	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]	5.9	TTH/AAQM/09	20.00

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Purni Mal Yogi
Senior Analyst

Rajendra Kumar Singh
(Report No. 25400000135)



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JDA/UDH

Office : E-65, Chitrangan Marg,

C-Scheme, Jaipur - 302001, Rajasthan

Phone : +91 6377210064, 9414077379,

Website : www.teamtesthouse.com

Email : team.bdhead@gmail.com

Laboratory : G1-584, RHICO Industrial Area,

Sitapura, Jaipur - 302022, Rajasthan

Phone : +91 9460222039, 9460222049,

Email : director@teamtesthouse.com,

Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	400000135	Date :	22-01-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	06-01-2025 11:13 to 07-01-2025 11:13
Point of Collection :	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Receipt :	09-01-2025
Date of Test/Analysis :	09-01-2025 to 22-01-2025	Sampling Plan :	IS 5182 2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

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

Notes -

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Purani
Purani Mohan Yogi
Senior Analyst

Rajesh
Rajesh Anandeshwari
Authorized Signatory
(Report No: 400000135)



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



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JDA/UDH

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

Laboratory : C-1-584, RICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./UI R No	25400000199	Date	28-01-2025
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	21-01-2025 11:00 to 22-01-2025 11:00
Point of Collection	Near Sub Station	Date of Receipt	23-01-2025
Date of Test/Analysis	23-01-2025 to 28-01-2025	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]	0.16	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.51	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]	151.93	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	32.55	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.38	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	73.05	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]	3.5	TTH/AAQM/09	20.00

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Puran
Puran Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: 25400000199)

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65, Chitrangan Marg,
Jaipur - 302001, Rajasthan
Phone : +91 6377210064, 9414077379,
Website : www.teamtesthouse.com
Email : team.bdheadia@gmail.com

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

TEST REPORT

Report No./ULR No	400000199	Date :	28-01-2025
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 :	21-01-2025 11:00 to 22-01-2025 11:00
Point of Collection	Near Sub Station	Date of Receipt :	23-01-2025
Date of Test/Analysis :	23-01-2025 to 28-01-2025	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
3	Benzo-alfa- Pyrene [ng/m3]	BDL(<1.0)	CPCB Guidelines	1.00

Notes :-

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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: 400000199)

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ISO 45001:2018 (OH&S)
JDA/UDH
E-65, Chitranganj Marg,
Scheme, Jaipur - 302001, Rajasthan
Phone : +91 6377210064, 9414077379,
Website : www.teamtesthouse.com
Email : team.bdhead@gmail.com

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

TEST REPORT

Report No./ULR No. :	25400000203	Date :	28-01-2025
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 :	21-01-2025 11:03 to 22-01-2025 11:03
Point of Collection :	Near CRF	Date of Receipt :	23-01-2025
Date of Test/Analysis :	23-01-2025 to 28-01-2025	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]	380	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]	15.1	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]	153.14	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	32.32	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.03	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	76.73	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]	4.2	TTH/AAQM/09	20.00

Notes :-

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Puran Mal
Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Rajesh Maheshwari
Authorized Signatory
(Report No: 25400000203)

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

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

TEST REPORT

Report No./ULR No. :	400000203	Date :	28-01-2025
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 :	21-01-2025 11:03 to 22-01-2025 11:03
Point of Collection	Near CRF	Date of Receipt :	23-01-2025
Date of Test/Analysis :	23-01-2025 to 28-01-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

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

Notes :-

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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: 400000203)

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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	25400000204	Date :	28-01-2025
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 :	21-01-2025 11:04 to 22-01-2025 11:04
Point of Collection :	Near ANFO Station	Date of Receipt :	23-01-2025
Date of Test/Analysis :	23-01-2025 to 28-01-2025	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]	410	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]	14.68	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]	110.55	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	30.36	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.24	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	78.95	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 :

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Puran Mal Yogi

Rajesh Maheshwari
Authorized Signatory
(Report No: 25400000204)

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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	400000204	Date :	28-01-2025
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 :	21-01-2025 11:04 to 22-01-2025 11:04
Point of Collection :	Near ANFO Station	Date of Receipt :	23-01-2025
Date of Test/Analysis :	23-01-2025 to 28-01-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

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

Notes :-

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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: 400000204)

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



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JDA/UDH

Jan Marg,
302001, Rajasthan
10064, 9414077379,
teamtesthouse.com
thead@gmail.com

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

TEST REPORT

Report No./ULR No.	25400000201	Date :	28-01-2025
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 :	20-01-2025 11:01 to 21-01-2025 11:01
Point of Collection :	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	23-01-2025
Date of Test/Analysis :	23-01-2025 to 28-01-2025	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]	310	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]	13.32	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]	137.41	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	27.8	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	66.74	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 :-

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Purni Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 25400000201)

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ISO 14001:2015,

ISO 45001:2018 (OH&S)

JDA/UDH

Chitrangan Marg,
Jaipur - 302001, Rajasthan
Phone: +91 9460222039, 9460222049,
www.teamtesthouse.com
team.bhhead@gmail.com

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

TEST REPORT

Report No./ULR No. :	400000201	Date :	28-01-2025
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 :	20-01-2025 11:01 to 21-01-2025 11:01
Point of Collection :	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	23-01-2025
Date of Test/Analysis :	23-01-2025 to 28-01-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

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

Notes :-

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Puran Mai Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: 400000201)

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ISO 14001:2015,

ISO 45001:2018 (OH&S)

JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	25400000202	Date :	28-01-2025
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 :	20-01-2025 11:02 to 21-01-2025 11:02
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	23-01-2025
Date of Test/Analysis :	23-01-2025 to 28-01-2025	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]	310	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.2	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	12.75	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]	138.47	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	26.67	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]	70.89	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]	6.6	TTH/AAQM/09	20.00

Notes :-

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Purni Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: 25400000202)

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

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Plot No. 15, Chitranganj Marg,
Jaipur - 302001, Rajasthan
Phone : +91 9460222039, 9460222049,
www.teamtesthouse.com
team.bhhead@gmail.com

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

TEST REPORT

Report No./ULR No. :	400000202	Date :	28-01-2025
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 :	20-01-2025 11:02 to 21-01-2025 11:02
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	23-01-2025
Date of Test/Analysis :	23-01-2025 to 28-01-2025	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

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Puran Mai Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: 400000202)

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Ministry of Environment and Forest, Government of India as Environmental Laboratory
 ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 (OH&S) JDA/UDH
 Laboratory : G1-544, RIICO Industrial Area,
 Sitapura, Jaipur - 302022, Rajasthan
 Phone : +91 9460222039, 9460222049,
 Email : director@teamttesthouse.com,
 Email : marketinglab@teamttesthouse.com

TEST REPORT

Report No /ULR No	25400000200	Date	28-01-2025
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	20-01-2025 11:01 to 21-01-2025 11:01
Point of Collection	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Receipt	23-01-2025
Date of Test/Analysis	23-01-2025 to 28-01-2025	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]	290	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.2	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	13.22	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) :1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	135.76	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	34.04	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]	73.7	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 :-

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Puran Mal Yogi
 Senior Analyst

Rajesh Maheshwari
 Authorized Signatory
 (Report No: 25400000200)

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ISO 45001:2018 (OH&S)

JDA/UDH

Plot No. 1, Marg,

Jaipur - 302001, Rajasthan

Phone : +91 9460222039, 9460222049,

www.teamtesthouse.com

team.bda@gmail.com

Laboratory : G-1-584, RIICO Industrial Area,

Sitapura, Jaipur - 302022, Rajasthan

Phone : +91 9460222039, 9460222049,

Email : director@teamtesthouse.com,

Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No /ULR No	400000200	Date	28-01-2025
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	20-01-2025 11:01 to 21-01-2025 11:01
Point of Collection	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Receipt	23-01-2025
Date of Test/Analysis :	23-01-2025 to 28-01-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

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

Notes :-

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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: 400000200)



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



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ISO 45001:2018 (OH&S)

JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	25400000282	Date	18-02-2025
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 :	04-02-2025 14:17 to 05-02-2025 14:17
Point of Collection :	Near Sub Station	Date of Receipt :	06-02-2025
Date of Test/Analysis :	06-02-2025 to 18-02-2025	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]	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]	15.42	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]	177.05	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	37.65	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.51	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	88.52	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:

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Senior Analyst

Rajesh Chawari
Authorized Signatory
(Report No: 25400000282)



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

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

RSPCB

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ISO 14001:2015,

ISO 45001:2018 (OH&S)

JDA/UDH

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

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

TEST REPORT

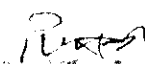
Report No./ULR No. :	400000282	Date :	18-02-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	04-02-2025 14:17 to 05-02-2025 14:17
Point of Collection :	Near Sub Station	Date of Receipt :	06-02-2025
Date of Test/Analysis :	06-02-2025 to 18-02-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m 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 -

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Pura
Senior Analyst


Rajesh Arshwari
Authorized Signatory
(Report No. 400000282)



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



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RSPCB

ISO 9001:2015,

ISO 14001:2015,

ISO 45001:2018 (OH&S)

JDA/UDH

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

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

TEST REPORT

Report No./ULR No	25400000283	Date	18-02-2025
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	04-02-2025 14:18 to 05-02-2025 14:18
Point of Collection	Near CRF	Date of Receipt	06-02-2025
Date of Test/Analysis	06-02-2025 to 18-02-2025	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]	410	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]	14.5	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]	157.32	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	33.83	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.68	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	82.46	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	4.7	TTH/AAQM/09	20.00

Notes :-

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Purandhar Singh
Senior Analyst

Rakesh Singh
Authorized Signatory
(Report No. 25400000283)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	400000283	Date :	18-02-2025
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 :	04-02-2025 14:18 to 05-02-2025 14:18
Point of Collection :	Near CRF	Date of Receipt :	06-02-2025
Date of Test/Analysis :	06-02-2025 to 18-02-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

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

Notes -

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Signature

Senior Analyst

Signature
Rajesh Kumar
(Report No: 400000283)



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

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

TEST REPORT

Report No./ULR No.	25400000284	Date :	18-02-2025
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 :	04-02-2025 14 19 to 05-02-2025 14 19
Point of Collection	Near ANFO Station	Date of Receipt :	06-02-2025
Date of Test/Analysis :	06-02-2025 to 18-02-2025	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]	430	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]	14.97	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]	149.46	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	34.48	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.53	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	73.53	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	4.8	TTH/AAQM/09	20.00

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Purnima Yogi
Senior Analyst

Anshu Singhwari
(Report No: 25400000284)



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

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Sitapura, Jaipur - 302022, Rajasthan
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TEST REPORT

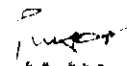
Report No./ULR No. :	400000284	Date :	18-02-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	04-02-2025 14:19 to 05-02-2025 14:19
Point of Collection :	Near ANFO Station	Date of Receipt :	06-02-2025
Date of Test/Analysis :	06-02-2025 to 18-02-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

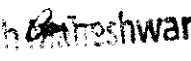
RESULTS

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

Notes -

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Duran Maiti
Senior Analyst


Rajesh Chhabreshwari
Authorized Signatory
(Report No: 400000284)



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

TEST REPORT

Report No./ULR No.	25400000285	Date :	18-02-2025
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 :	03-02-2025 14:20 to 04-02-2025 14:20
Point of Collection	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	06-02-2025
Date of Test/Analysis :	06-02-2025 to 18-02-2025	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]	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]	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]	101.99	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	24.64	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]	57.93	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]	3.9	TTH/AAQM/09	20.00

Notes

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P. K. Yadav
Senior Analyst Yogi

Rajendra Singh
Rajendra Singhwari
(Report No: 25400000285)



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

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

TEST REPORT

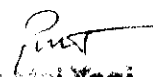
Report No./ULR No.:	400000285	Date :	18-02-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring	03-02-2025 14:20 to 04-02-2025 14:20
Point of Collection	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	06-02-2025
Date of Test/Analysis :	06-02-2025 to 18-02-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

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

Notes -

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Senior Analyst


Rajesh Maheshwari
(Report No. 400000285)



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

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

TEST REPORT

Report No./ULR No. :	25400000286	Date :	18-02-2025
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 :	03-02-2025 14:21 to 04-02-2025 14:21
Point of Collection	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	06-02-2025
Date of Test/Analysis :	06-02-2025 to 18-02-2025	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]	310	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]	12.91	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]	116.29	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	27.53	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]	62.96	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	3.8	TTH/AAQM/09	20.00

Notes :

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Senior Analyst

Authorized Signatory
(Report No: 25400000286)



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JDAUDH

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

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

TEST REPORT

Report No./ULR No :	400000286	Date :	18-02-2025
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 :	03-02-2025 14:21 to 04-02-2025 14:21
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	06-02-2025
Date of Test/Analysis :	06-02-2025 to 18-02-2025	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

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Puran
Senior Analyst

Rajesh M. Choudhary
Authorized Signatory
(Report No. 400000286)



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Laboratory : G1-584, RIICO Industrial Area,
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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	25400000287	Date :	18-02-2025
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 :	03-02-2025 14:22 to 04-02-2025 14:22
Point of Collection	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Receipt :	06-02-2025
Date of Test/Analysis :	06-02-2025 to 18-02-2025	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]	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]	13.26	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]	105.77	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	23.59	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]	51.22	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	2.3	TTH/AAQM/09	20.00

Notes :-

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Senior Analyst: Yogt

Rajesh P. Singhwari
Authorized Signatory
(Report No: 25400000287)



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JDA/TH

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

TEST REPORT

Report No./ULR No. :	400000287	Date :	18-02-2025
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 :	03-02-2025 14:22 to 04-02-2025 14:22
Point of Collection :	Kayad Village [26°31'44.3"N. 74°41'16.5"E]	Date of Receipt :	06-02-2025
Date of Test/Analysis :	06-02-2025 to 18-02-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

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

Notes :

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 400000287)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	25400000373	Date :	28-02-2025
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 :	23-02-2025 11:34 to 24-02-2025 11:34
Point of Collection :	Near Sub Station	Date of Receipt :	25-02-2025
Date of Test/Analysis :	25-02-2025 to 28-02-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(< 20)	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]	14.14	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]	155.04	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	34.37	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.85	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	80.5	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	3.4	TTH/AAQM/09	20.00

Notes :-

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

Sunil Kumar

Puran Aggarwal
Authorized Signatory
(Report No. 25400000373)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No.:	400000373	Date :	28-02-2025
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 :	23-02-2025 11:34 to 24-02-2025 11:34
Point of Collection :	Near Sub Station	Date of Receipt :	25-02-2025
Date of Test/Analysis :	25-02-2025 to 28-02-2025	Sampling Plan :	IS 5182 2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

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

Notes -

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Sumit Kumar
Senior Analyst

Puran Mehta
Authorized Signatory
(Report No. 400000373)



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

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

TEST REPORT

Report No./ULR No. :	25400000374	Date :	28-02-2025
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 :	23-02-2025 11:34 to 24-02-2025 11:35
Point of Collection	Near CRF	Date of Receipt :	25-02-2025
Date of Test/Analysis :	25-02-2025 to 28-02-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(< 20)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	430	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]	14.41	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]	140.77	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	35.35	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.98	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	77.07	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	3.3	TTH/AAQM/09	20.00

Notes

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Purnan May Yogi

Purnan May Yogi
Authorized Signatory

(Report No: 25400000374)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	400000374	Date :	28-02-2025
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 :	23-02-2025 11:34 to 24-02-2025 11:35
Point of Collection :	Near CRF	Date of Receipt :	25-02-2025
Date of Test/Analysis :	25-02-2025 to 28-02-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

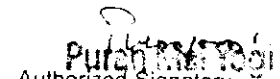
RESULTS

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

Notes :-

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Sunil Kumar


Purnima Tooi
Authorized Signatory
(Report No: 400000374)



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

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

TEST REPORT

Report No./ULR No. :	25400000375	Date :	28-02-2025
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 :	23-02-2025 11:35 to 24-02-2025 11:35
Point of Collection	Near ANFO Station	Date of Receipt :	25-02-2025
Date of Test/Analysis :	25-02-2025 to 28-02-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(< 20)	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]	14.4	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]	144.77	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	31.23	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.9	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	78.44	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	TTH/AAQM/09	20.00

Notes

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Senior Analyst

Authorized Signatory
(Report No: 25400000375)



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JDA/UDH

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

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

TEST REPORT

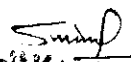
Report No./ULR No. :	400000375	Date :	28-02-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	23-02-2025 11:35 to 24-02-2025 11:35
Point of Collection :	Near ANFO Station	Date of Receipt :	25-02-2025
Date of Test/Analysis :	25-02-2025 to 28-02-2025	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

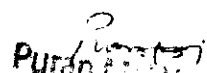
RESULTS

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 -

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Sandeep Kumar


Puran Kumar
Authorized Signatory
(Report No: 400000375)



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

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

TEST REPORT

Report No./ULR No. :	25400000376	Date :	28-02-2025
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 :	23-02-2025 11:36 to 24-02-2025 11:36
Point of Collection	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	25-02-2025
Date of Test/Analysis :	25-02-2025 to 28-02-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(< 20)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	330	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]	13.82	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]	121.03	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	27.18	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	67.47	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]	4.1	TTH/AAQM/09	20.00

Notes :-

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

[Signature]
Santosh Kumar

[Signature]
Purandhar Yogi

Authorized Signatory
(Report No: 25400000376)



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

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

TEST REPORT

Report No./ULR No. :	400000376	Date :	28-02-2025
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 :	23-02-2025 11:36 to 24-02-2025 11:36
Point of Collection :	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	25-02-2025
Date of Test/Analysis :	25-02-2025 to 28-02-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

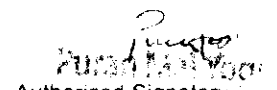
RESULTS

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

Notes -

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Sanjay Kumar


Authorized Signatory
(Report No: 400000376)



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C Scheme, Jaipur - 302001, Rajasthan
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Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No.	25400000377	Date :	28-02-2025
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 :	23-02-2025 11:37 to 24-02-2025 11:37
Point of Collection	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	25-02-2025
Date of Test/Analysis :	25-02-2025 to 28-02-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(< 20)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	380	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]	13.53	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]	132.18	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	23.77	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	71.75	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	4	TTH/AAQM/09	20.00

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: 25400000377)



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JDA U I

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

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

TEST REPORT

Report No./ULR No. :	400000377	Date :	28-02-2025
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 :	23-02-2025 11:37 to 24-02-2025 11:37
Point of Collection :	Gagwana Village (26°31'44.4"N, 74°43'20.1"E)	Date of Receipt :	25-02-2025
Date of Test/Analysis :	25-02-2025 to 28-02-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

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

Notes :-

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Genib Analyst

Puran Singh
Authorized Signatory
(Report No: 400000377)



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

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

TEST REPORT

Report No./ULR No.	25400000378	Date :	28-02-2025
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 :	23-02-2025 11:37 to 24-02-2025 11:37
Point of Collection	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Receipt :	25-02-2025
Date of Test/Analysis :	25-02-2025 to 28-02-2025	Sampling Plan :	IS 5182 2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(< 20)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	320	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.22	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	13.39	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]	149.05	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	32.75	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	73.87	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]	5.8	TTH/AAQM/09	20.00

Notes :

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Puran Mai Yogi

Puran Mai Yogi
Authorized Signatory

(Report No: 25400000378)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	400000378	Date :	28-02-2025
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 :	23-02-2025 11:37 to 24-02-2025 11:37
Point of Collection :	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Receipt :	25-02-2025
Date of Test/Analysis :	25-02-2025 to 28-02-2025	Sampling Plan :	IS 5182.2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

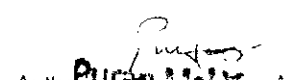
RESULTS

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

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Sunil Kumar
Senior Analyst


Authorized Signatory
(Report No. 400000378)

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JDA/UDH

Plot No. 5, Antranjan Marg,
Sitapura, Jaipur - 302001, Rajasthan
Phone : +91 9460222039, 9460222049,
www.teamtesthouse.com
Email : hdhead@gmail.com

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

TEST REPORT

Report No./ULR No.	25400000463	Date :	19-03-2025
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 :	07-03-2025 15:15 to 08-03-2025 15:15
Point of Collection	Near Sub Station	Date of Receipt :	12-03-2025
Date of Test/Analysis :	12-03-2025 to 19-03-2025	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]	0.16	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.87	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]	137.28	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	32.99	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.19	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	72.83	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]	4.3	TTH/AAQM/09	20.00

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Senior Analyst

Authorized Signatory
(Report No. 25400000463)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	400000378	Date :	28-02-2025
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 :	23-02-2025 11:37 to 24-02-2025 11:37
Point of Collection :	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Receipt :	25-02-2025
Date of Test/Analysis :	25-02-2025 to 28-02-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

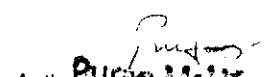
RESULTS

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

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Sunil Kumar
Senior Analyst


Purna Chandra
Authorized Signatory
(Report No: 400000378)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	400000463	Date :	19-03-2025
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 :	07-03-2025 15:15 to 08-03-2025 15:15
Point of Collection :	Near Sub Station	Date of Receipt :	12-03-2025
Date of Test/Analysis :	12-03-2025 to 19-03-2025	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

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Puran Mai Yogi
Senior Analyst

Rajesh Maheshwar
Authorized Signatory
(Report No: 400000463)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	25400000464	Date :	19-03-2025
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 :	07-03-2025 15:18 to 08-03-2025 15:18
Point of Collection :	Near CRF	Date of Receipt :	12-03-2025
Date of Test/Analysis :	12-03-2025 to 19-03-2025	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]	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]	14.66	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]	155.55	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	33.83	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.04	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	79.16	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]	4.2	TTH/AAQM/09	20.00

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Purni Mal Yogi
Senior Analyst

Rajeshwari
Authorized Signatory
(Report No: 25400000464)



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JDA UDH

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

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

TEST REPORT

Report No./ULR No. :	400000464	Date :	19-03-2025
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 :	07-03-2025 15:18 to 08-03-2025 15:18
Point of Collection :	Near CRF	Date of Receipt :	12-03-2025
Date of Test/Analysis :	12-03-2025 to 19-03-2025	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

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Purni Mal Yogi
Senior Analyst

Rajesh Krishneshwari
Authorized Signatory
(Report No: 400000464)



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JDA/1 DH

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

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

TEST REPORT

Report No./ULR No.:	25400000465	Date :	19-03-2025
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 :	07-03-2025 15:19 to 08-03-2025 15:19
Point of Collection	Near ANFO Station	Date of Receipt :	12-03-2025
Date of Test/Analysis :	12-03-2025 to 19-03-2025	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]	390	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]	15.14	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]	148.76	IS 5182 (Part 4) : 1999 RA 2019	500
7	Particulate Matter (PM2.5) [microgram/m3]	31.93	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.2	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	82.41	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]	4.2	TTH/AAQM/09	20.00

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 25400000465)



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JDA UDII

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

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

TEST REPORT

Report No./ULR No. :	400000465	Date :	19-03-2025
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 :	07-03-2025 15:19 to 08-03-2025 15:19
Point of Collection :	Near ANFO Station	Date of Receipt :	12-03-2025
Date of Test/Analysis :	12-03-2025 to 19-03-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

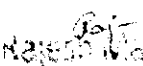
RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m 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 -

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Puran Mai Yogi
Senior Analyst


Naveen V. Verma
Authorized Signatory
(Report No: 400000465)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No.:	25400000466	Date :	19-03-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	06-03-2025 15:21 to 07-03-2025 15:21
Point of Collection	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	12-03-2025
Date of Test/Analysis :	12-03-2025 to 19-03-2025	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]	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]	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]	123.78	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	21.26	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	61.01	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]	5.9	TTH/AAQM/09	20.00

Notes

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Purnima Yog

Senior Analyst

Rajesh Maneshwar
Authorized Signatory
(Report No: 25400000466)



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JDA 111

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

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

TEST REPORT

Report No./ULR No.:	400000466	Date :	19-03-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	06-03-2025 15:21 to 07-03-2025 15:21
Point of Collection :	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	12-03-2025
Date of Test/Analysis :	12-03-2025 to 19-03-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram Jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

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

Notes :-

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Puran Mai Yogi
Senior Analyst

Rakesh Maheshwar
Authorized Signatory
(Report No. 400000466)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	25400000467	Date :	19-03-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	06-03-2025 15:28 to 07-03-2025 15:28
Point of Collection	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	12-03-2025
Date of Test/Analysis :	12-03-2025 to 19-03-2025	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]	310	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]	13.25	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]	130.58	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	23.61	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]	56.38	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 :-

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Senior Analyst

Rajesh Maheshwar
Authorized Signatory
(Report No: 25400000467)



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JDA UDH

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

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

TEST REPORT

Report No./ULR No. :	400000467	Date :	19-03-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	06-03-2025 15:28 to 07-03-2025 15:28
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	12-03-2025
Date of Test/Analysis :	12-03-2025 to 19-03-2025	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

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Senior Analyst

Authorized Signatory
(Report No. 400000467)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	25400000468	Date :	19-03-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	06-03-2025 15:29 to 07-03-2025 15:29
Point of Collection	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Receipt :	12-03-2025
Date of Test/Analysis :	12-03-2025 to 19-03-2025	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]	330	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]	13.42	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]	126.87	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	27.11	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]	66.08	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]	5.3	TTH/AAQM/09	20.00

Notes :

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Purnima Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 25400000468)



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ISO 14001:2015,

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JDA F DB

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

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

TEST REPORT

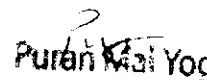
Report No./ULR No. :	400000468	Date :	19-03-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad. District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	06-03-2025 15:29 to 07-03-2025 15:29
Point of Collection :	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Receipt :	12-03-2025
Date of Test/Analysis :	12-03-2025 to 19-03-2025	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

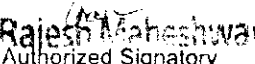
RESULTS

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

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Puran Kati Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: 400000468)



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JDA/UDH

Office : F-65, Chitranjan Marg,

C-Scheme, Jaipur - 302001, Rajasthan

Phone : +91 6377210064, 9414077379,

Website : www.teamtesthouse.com

Email : team.bdhead@gmail.com

Laboratory : G1-584, RHCO Industrial Area,

Sitapura, Jaipur - 302022, Rajasthan

Phone : +91 9460222039, 9460222049,

Email : director@teamtesthouse.com,

Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	25400000633	Date :	04-04-2025
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 :	28-03-2025 to 29-03-2025
Point of Collection :	Near Sub Station	Date of Receipt :	01-04-2025
Date of Test/Analysis:	01-04-2025 to 04-04-2025	Sampling Plan :	IS5182:2000(Part14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative:	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(< 20)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	370	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]	14.71	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]	135.26	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	34.67	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	7.26	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	78.59	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]	2.0	TTH/AAQM/09	20.00

Notes -

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Senior Analyst

Authorized Signatory

(Report No: 25400000633)



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JDAF/DH

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

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

TEST REPORT

Report No./ULR No. :	25400000633	Date :	04-04-2025
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 :	28-03-2025 to 29-03-2025
Point of Collection :	Near Sub Station	Date of Receipt :	01-04-2025
Date of Test/Analysis:	01-04-2025 to 04-04-2025	Sampling Plan :	IS5182:2000(Part14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative:	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
12	Benzene [microgram/m 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 :-

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Senior Analyst

Authorized Signatory
(Report No: 400000633)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No.:	25400000634	Date :	04-04-2025
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 :	28-03-2025 10:49 to 29-03-2025 10:49
Point of Collection	Near CRF	Date of Receipt :	01-04-2025
Date of Test/Analysis :	01-04-2025 to 04-04-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(< 20)	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]	15.13	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]	153.82	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	32.94	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	7.18	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	80.83	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	2.3	TTH/AAQM/09	20.00

Notes :

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Senior Analyst

Authorized Signatory
(Report No: 25400000634)



TEAM TEST HOUSE

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

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

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JDA U.P.F.

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

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

TEST REPORT

Report No./ULR No. :	400000634	Date :	04-04-2025
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 :	28-03-2025 10:49 to 29-03-2025 10:49
Point of Collection	Near CRF	Date of Receipt :	01-04-2025
Date of Test/Analysis :	01-04-2025 to 04-04-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

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

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: 400000634)



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

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

TEST REPORT

Report No./ULR No. :	25400000635	Date :	04-04-2025
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 :	28-03-2025 10:50 to 29-03-2025 10:50
Point of Collection	Near ANFO Station	Date of Receipt :	01-04-2025
Date of Test/Analysis :	01-04-2025 to 04-04-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashna 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]	370	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]	14.49	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]	123.03	IS 5182 (Part 4) : 1999 RA 2019	500
7	Particulate Matter (PM2.5) [microgram/m3]	36.59	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.98	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	75.38	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	3.4	TTH/AAQM/09	20.00

Notes :

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Senior Analyst

Authorized Signatory
(Report No: 25400000635)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	400000635	Date :	04-04-2025
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 :	28-03-2025 10:50 to 29-03-2025 10:50
Point of Collection :	Near ANFO Station	Date of Receipt :	01-04-2025
Date of Test/Analysis :	01-04-2025 to 04-04-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

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

Notes :-

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Senior Analyst

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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	25400000636	Date :	04-04-2025
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 :	29-03-2025 10:52 to 30-03-2025 10:52
Point of Collection	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	01-04-2025
Date of Test/Analysis :	01-04-2025 to 04-04-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(< 20)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	330	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.23	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.17	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]	134.23	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	29.55	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.24	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	72.06	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]	5.7	TTH/AAQM/09	20.00

Notes :

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Senior Analyst

Authorized Signatory
(Report No: 25400000636)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	400000636	Date :	04-04-2025
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 :	29-03-2025 10:52 to 30-03-2025 10:52
Point of Collection :	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	01-04-2025
Date of Test/Analysis :	01-04-2025 to 04-04-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

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

Notes :

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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	25400000637	Date :	04-04-2025
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 :	29-03-2025 10:53 to 30-03-2025 10:53
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	01-04-2025
Date of Test/Analysis :	01-04-2025 to 04-04-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(<20)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	360	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.22	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	13.17	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) : 1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	126.95	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	27.62	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.88	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	77.52	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]	5.9	TTH/AAQM/09	20.00

Notes -

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Senior Analyst

Authorized Signatory
(Report No: 25400000637)



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JDA 1143

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

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

TEST REPORT

Report No./ULR No. :	400000637	Date :	04-04-2025
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 :	29-03-2025 10:53 to 30-03-2025 10:53
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	01-04-2025
Date of Test/Analysis :	01-04-2025 to 04-04-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

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

Notes :-

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Senior Analyst

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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	25400000638	Date :	04-04-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Aimer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	29-03-2025 10:54 to 30-03-2025 10:54
Point of Collection	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Receipt :	01-04-2025
Date of Test/Analysis :	01-04-2025 to 04-04-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(< 20)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	340	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.25	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	15.21	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]	125.23	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	26	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.69	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	71.7	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]	7.4	TTH/AAQM/09	20.00

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: 25400000638)



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JDA UDH

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

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

TEST REPORT

Report No./ULR No. :	400000638	Date :	04-04-2025
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 :	29-03-2025 10:54 to 30-03-2025 10:54
Point of Collection :	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Receipt :	01-04-2025
Date of Test/Analysis :	01-04-2025 to 04-04-2025	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

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

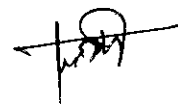
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Senior Analyst

Authorized Signatory
(Report No: 400000638)

HINDUSTAN ZINC LIMITED													
KAYAD MINE													
Noise Level Monitoring Report for October 2024 to March 2025													
Sr.No	Location	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
Day Time Industrial Limit 75dB								Night Time Industrial Limit 65dB					
								Annexure-II					
N-1	South West Corner of Mine Boundary	61.6	64.8	62.1	59.8	56.4	61.6	52.5	55.7	53.5	50.7	47.5	52.5
N-2	East Side Boundary Near West Dump	60.5	63.5	62.3	60.8	59.6	60.3	51.4	54.4	53.2	51.7	50.5	51.2
N-3	North East Corner of Mine Boundary	61.7	65.9	61.5	61.5	59.2	63.1	52.5	56.7	52.3	52.3	50.3	54.2
N-4	North West Corner of Mine Boundary	61.8	63.1	60	58.9	57.9	64.4	52.7	56.5	51.9	49.7	48.7	55.3
N-5	West Side Towards Kayad Village	58.7	66.5	63.2	59.7	57.5	62.4	47.5	57.4	54.3	50.5	48.4	53.3
N-6	South East East Corner	59.9	58.7	60.5	57.5	59.2	60.9	50.8	48.5	51.4	48.4	50.2	51.8
	Sub-Station	1.7	52.3	52.3	60.4	58.3	65.2	41.5	41.7	42.1	51.3	49.7	56.7
Sr.No	Location	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
N-7	Kayad Village	52.2	53.6	53.1	52.6	48.8	53.7	42.3	42.4	41.9	43.5	39.7	43.5
N-8	Lohagal Village	53.5	51.6	52.7	51.7	47.1	52.6	43.4	40.3	40.5	42.5	38.9	41.5
N-9	Gagwana Village	51.7	53.5	51.3	52.9	46.5	51.9	41.6	42.6	39.1	43.7	37.7	40.7





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

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

TEST REPORT

Report No./ULR No. :	24600001431	Date :	29-10-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	07-10-2024
Point of Collection	Kayad Village [26°31'44."N, 74°41'16.5"E]	Date of Sample Receipt :	10-10-2024
Date of Test :	10-10-2024 to 21-10-2024	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)]	52.2	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	42.3	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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Purnan Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 24600001431)

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

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

TEST REPORT

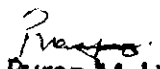
Report No./ULR No. :	24600001432	Date :	29-10-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	07-10-2024
Point of Collection :	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Sample Receipt :	10-10-2024
Date of Test :	10-10-2024 to 21-10-2024	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)]	53.5	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	43.4	IS 9989	45

Notes :-

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Senior Analyst


Authorized Signatory
(Report No: 24600001432)

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

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

TEST REPORT

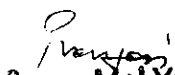
Report No./ULR No. :	24600001433	Date :	29-10-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	07-10-2024
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Sample Receipt :	10-10-2024
Date of Test :	10-10-2024 to 21-10-2024	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)]	51.7	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	41.6	IS 9989	45

Notes :-

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Senior Analyst
Prahlad Yogi


Authorized Signatory
Rajesh Maheshwari
(Report No: 24600001433)

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

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

TEST REPORT

Report No./ULR No.:	24600001434	Date :	29-10-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	07-10-2024
Point of Collection :	Chatri Village [26°33'32.1"N, 74°42'58.4"E]	Date of Sample Receipt :	10-10-2024
Date of Test :	10-10-2024 to 21-10-2024	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)]	51.7	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	41.5	IS 9989	45

Notes :-

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Senior Analyst
Puran Mal Yogi

Authorized Signatory
Rajesh Maheshwari
(Report No: 24600001434)

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

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

TEST REPORT

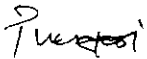
Report No./ULR No. :	24600001435	Date :	29-10-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	07-10-2024
Point of Collection :	N1 South West Corner of Mine Boundary	Date of Sample Receipt :	10-10-2024
Date of Test :	10-10-2024 to 21-10-2024	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)]	61.6	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	52.5	IS 9989	65

Notes :-

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Senior Engineer
Prahlad Yogi


Authorized Signatory
(Report No: 24600001435)

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

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

TEST REPORT

Report No./ULR No. :	24600001436	Date :	29-10-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Underground Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	07-10-2024
Point of Collection :	N2 East Side Boundary Near West Dump	Date of Sample Receipt :	10-10-2024
Date of Test :	10-10-2024 to 21-10-2024	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)]	60.5	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	51.4	IS 9989	65

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 24600001436)

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

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

TEST REPORT

Report No./ULR No. :	24600001438	Date :	29-10-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Underground Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	08-10-2024
Point of Collection :	N4 North West Corner of Mine Boundary	Date of Sample Receipt :	10-10-2024
Date of Test :	10-10-2024 to 21-10-2024	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)]	61.8	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	52.7	IS 9989	65

Notes :-

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Puran
Puran Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: 24600001438)

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

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

TEST REPORT

Report No./ULR No. :	24600001440	Date :	29-10-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Underground Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	08-10-2024
Point of Collection :	N6 South East Corner	Date of Sample Receipt :	10-10-2024
Date of Test :	10-10-2024 to 21-10-2024	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)]	59.9	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	50.8	IS 9989	65

Notes :-

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P. Maheshwari
Prahlad Mal Yogi
Senior Analyst

Raj
Rajesh Maheshwari
AUTHORIZED SIGNATURE
(Report No: 24600001440)



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

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

TEST REPORT

Report No./ULR No. :	24600001690	Date :	03-12-2024
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 :	21-11-2024 14:31 to 22-11-2024 14:31
Point of Collection	Kayad Village [26°31'44."N, 74°41'16.5"E]	Date of Receipt :	29-11-2024
Date of Test/Analysis :	29-11-2024 to 03-12-2024	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)]	53.6	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	42.4	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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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 24600001690)



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

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

TEST REPORT

Report No./ULR No.	24600001690	Date :	03-12-2024
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 :	21-11-2024 14:31 to 22-11-2024 14:31
Point of Collection :	Kayad Village [26°31'44."N. 74°41'16.5"E]	Date of Receipt :	29-11-2024
Date of Test/Analysis :	29-11-2024 to 03-12-2024	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)]	53.6	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	42.4	IS 9989	45

Notes :-

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Airani Maheshwari
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 24600001690)



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

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

TEST REPORT

Report No./ULR No. :	24600001691	Date :	03-12-2024
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 :	21-11-2024 14:32 to 22-11-2024 14:32
Point of Collection	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	29-11-2024
Date of Test/Analysis :	29-11-2024 to 03-12-2024	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)]	51.6	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	40.3	IS 9989	45

Notes :

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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwari
(Report No: 24600001691)



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

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

TEST REPORT

Report No./ULR No. :	24600001692	Date :	03-12-2024
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 :	21-11-2024 14:33 to 22-11-2024 14:33
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	29-11-2024
Date of Test/Analysis :	29-11-2024 to 03-12-2024	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)]	53.5	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	42.6	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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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
(Report No: 24600001692)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No.	24600001693	Date :	03-12-2024
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 :	21-11-2024 14:34 to 22-11-2024 14:34
Point of Collection	Chatri Village [26°33'32.1"N, 74°42'58.4"E]	Date of Receipt :	29-11-2024
Date of Test/Analysis :	29-11-2024 to 03-12-2024	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)]	52.3	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	41.7	IS 9989	45

Notes :-

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Puran Mal Yogi
Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Rajesh Maheshwari
Authorized Signatory
(Report No: 24600001693)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	24600001694	Date :	03-12-2024
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 :	21-11-2024 14:35 to 22-11-2024 14:35
Point of Collection :	N1 South West Corner of Mine Boundary	Date of Receipt :	29-11-2024
Date of Test/Analysis :	29-11-2024 to 03-12-2024	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)]	64.8	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	55.7	IS 9989	65

Notes :-

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Puran Mai Yogi
Puran Mai Yogi
Senior Analyst

Rajesh Maheshwari
Rajesh Maheshwari
Authorized Signatory
(Report No: 24600001694)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	24600001695	Date :	03-12-2024
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 :	21-11-2024 14:37 to 22-11-2024 14:37
Point of Collection :	N2 East Side Boundary Near West Dump	Date of Receipt :	29-11-2024
Date of Test/Analysis :	29-11-2024 to 03-12-2024	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)]	54.4	IS 9989	65

Notes :-

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Puran Maj Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 24600001695)



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JDA UDE

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

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

TEST REPORT

Report No./ULR No. :	24600001696	Date :	03-12-2024
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 :	21-11-2024 14:38 to 22-11-2024 14:38
Point of Collection	N3 North East Corner of Mine Boundary	Date of Receipt :	29-11-2024
Date of Test/Analysis :	29-11-2024 to 03-12-2024	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)]	65.9	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	56.7	IS 9989	65

Notes :-

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Puram Maheshwari
Puram Maheshwari

Rajesh Maheshwari
Rajesh Maheshwari
Authorized Signatory
(Report No: 24600001696)



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

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

TEST REPORT

Report No./ULR No. :	24600001697	Date :	03-12-2024
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 :	21-11-2024 14:39 to 22-11-2024 14:39
Point of Collection :	N4 North West Corner of Mine Boundary	Date of Receipt :	29-11-2024
Date of Test/Analysis :	29-11-2024 to 03-12-2024	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)]	63.1	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	56.5	IS 9989	65

Notes -

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Puran Mali
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 24600001697)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No.:	24600001699	Date :	03-12-2024
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 :	21-11-2024 14:41 to 22-11-2024 14:41
Point of Collection	N6 South East Corner	Date of Receipt :	29-11-2024
Date of Test/Analysis :	29-11-2024 to 03-12-2024	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)]	58.7	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	48.5	IS 9989	65

Notes :-

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Purnima Yogi
Senior Analyst

Rakesh Maheshwari
Authorized Signatory
(Report No. 24600001699)



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JDA/UDH

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

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

TEST REPORT

ReportNo./ULR No. :	24600001807	Date :	27-12-2024
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	20-12-2024
Point of Collection	Kayad Village [26°31'44."N, 74°41'16.5"E]	Date of Receipt :	23-12-2024
Date of Test/Analysis.	23-12-2024 to 27-12-2024	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

Sl. No.	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	53.1	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	41.9	IS 9989	45

Notes :-

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Ran Mal Yog
Analyst

Rajesh Maheshwari
Authorized Signatory

(Report No: 24600001807)



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

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

TEST REPORT

Report No./ULR No	24600001808	Date :	27-12-2024
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 :	20-12-2024
Point of Collection	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt	23-12-2024
Date of Test/Analysis :	23-12-2024 to 27-12-2024	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)]	40.5	IS 9989	45

Notes :

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Purni Mal Yogi
Senior Analyst

Rajesh Maheshwari
(Report No: 24600001808)



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ISO 14001:2015,

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JDA 110

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

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

TEST REPORT

Report No./ULR No. :	24600001810	Date :	27-12-2024
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 :	20-12-2024
Point of Collection	Chatri Village [26°33'32.1"N. 74°42'58.4"E]	Date of Receipt :	23-12-2024
Date of Test/Analysis :	23-12-2024 to 27-12-2024	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)]	52.3	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	42.1	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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Puran Mal
Puran Mal
Senior Analyst

Rajesh
Rajesh Maheshwar
(Report No: 24600001810)

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

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

TEST REPORT

Report No./ULR No	24600001811	Date	27-12-2024
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	19-12-2024
Point of Collection	N1 South West Corner of Mine Boundary	Date of Receipt	23-12-2024
Date of Test/Analysis	23-12-2024 to 27-12-2024	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)]	62.1	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	53.5	IS 9989	65

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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Puren Mal Vohra
Senior Analyst

Rajesh Maheshwari
Authorized Signatory

(Report No: 24600001811)



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



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

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

TEST REPORT

Report No./ULR No. :	24600001812	Date :	27-12-2024
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 :	19-12-2024
Point of Collection :	N2 East Side Boundary Near West Dump	Date of Receipt :	23-12-2024
Date of Test/Analysis :	23-12-2024 to 27-12-2024	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)]	62.3	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	53.2	IS 9989	65

Notes :-

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Puran Mai Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No. 24600001812)



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

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

TEST REPORT

Report No./ULR No. :	24600001813	Date :	27-12-2024
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 :	19-12-2024
Point of Collection	N3 North East Corner of Mine Boundary	Date of Receipt :	23-12-2024
Date of Test/Analysis	23-12-2024 to 27-12-2024	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)]	61.5	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	52.3	IS 9989	65

Notes :-

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Purshottam Maurya
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 24600001813)



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IDA/UDH

Office : E-65, Chitrangan Marg,
C-1 Scheme, Jaipur - 302001, Rajasthan
Phone : +91 6377210064, 9414077379,
Website : www.teamtesthouse.com
Email : team.bdhead@gmail.com

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

TEST REPORT

Report No./ULR No.	24600001814	Date :	27-12-2024
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 :	19-12-2024
Point of Collection	N4 North West Corner of Mine Boundary	Date of Receipt :	23-12-2024
Date of Test/Analysis :	23-12-2024 to 27-12-2024	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)]	60.0	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	51.9	IS 9989	65

Notes

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Puran Mar Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 24600001814)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No.	24600001815	Date :	27-12-2024
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 :	19-12-2024
Point of Collection	N5 West Side Towards Kayad Village	Date of Receipt	23-12-2024
Date of Test/Analysis :	23-12-2024 to 27-12-2024	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)]	63.2	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	54.3	IS 9989	65

Notes :

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Anurag Malhotra
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 24600001815)



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JDA/TDH

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

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

TEST REPORT

Report No./ULR No.	24600001816	Date	27-12-2024
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	19-12-2024
Point of Collection	N6 South East Corner	Date of Receipt	23-12-2024
Date of Test/Analysis	23-12-2024 to 27-12-2024	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)]	60.5	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	51.4	IS 9989	65

Notes

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Duran Mal Yogi
Senior Analyst

Rajesh Maneshwari
Authorized Signatory
(Report No: 24600001816)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No.	25600000143	Date :	22-01-2025
Issued To	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring	06-01-2025
Point of Collection	Kayad Village [26°31'44."N, 74°41'16.5"E]	Date of Receipt :	09-01-2025
Date of Test/Analysis	09-01-2025 to 22-01-2025	Sampling Plan	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	52.6	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	43.5	IS 9989	45

Notes :-

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Senior Analyst

Authorized Signatory
(Report No. 25600000143)



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

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

TEST REPORT

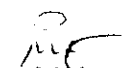
Report No./ULR No. :	25600000144	Date :	22-01-2025
Issued To :	M/S Hindustan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	06-01-2025
Point of Collection	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	09-01-2025
Date of Test/Analysis :	09-01-2025 to 22-01-2025	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	51.7	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	42.5	IS 9989	45

Notes :-

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Puran Mal Yogi
Senior Analyst


Rajashree Murari
Authorized Signatory
(Report No: 25600000144)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	25600000145	Date :	22-01-2025
Issued To	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	06-01-2025
Point of Collection	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	09-01-2025
Date of Test/Analysis :	09-01-2025 to 22-01-2025	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	52.9	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	43.7	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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Duran Mal Yogi
Senior Analyst

Rajesh Mcheshwari
Authorized Signatory
(Report No: 25600000145)



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

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

TEST REPORT

Report No./ULR No. :	25600000146	Date :	22-01-2025
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 :	07-01-2025
Point of Collection :	Near Sub Station	Date of Receipt :	09-01-2025
Date of Test/Analysis :	09-01-2025 to 22-01-2025	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules. 1986
1	Noise Level (Day Time) : Leq [dB(A)]	60.4	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	51.3	IS 9989	65

Notes :-

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Purnima Malhotra
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 25600000146)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	25600000147	Date :	22-01-2025
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 :	07-01-2025
Point of Collection :	N1 South West Corner of Mine Boundary	Date of Receipt :	09-01-2025
Date of Test/Analysis :	09-01-2025 to 22-01-2025	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

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

Notes -

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Pooja Yadav Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 25600000147)



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

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

TEST REPORT

Report No./ULR No. :	25600000148	Date :	22-01-2025
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 :	07-01-2025
Point of Collection :	N2 East Side Boundary Near West Dump	Date of Receipt :	09-01-2025
Date of Test/Analysis :	09-01-2025 to 22-01-2025	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

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

Notes :-

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Puran Ma Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 25600000148)



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

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

TEST REPORT

Report No./ULR No.	25600000149	Date :	22-01-2025
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 :	07-01-2025
Point of Collection :	N3 North East Corner of Mine Boundary	Date of Receipt :	09-01-2025
Date of Test/Analysis :	09-01-2025 to 22-01-2025	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	61.5	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	52.3	IS 9989	65

Notes :-

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Senior Analyst **Mal Yogi**

Authorized Signatory
(Report No: 25600000149)



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

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

TEST REPORT

Report No./ULR No. :	25600000148	Date :	22-01-2025
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 :	07-01-2025
Point of Collection :	N2 East Side Boundary Near West Dump	Date of Receipt :	09-01-2025
Date of Test/Analysis :	09-01-2025 to 22-01-2025	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

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

Notes :-

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Parash Mehta Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 25600000148)



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

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

TEST REPORT

Report No./ULR No. :	25600000150	Date :	22-01-2025
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 :	07-01-2025
Point of Collection :	N4 North West Corner of Mine Boundary	Date of Receipt :	09-01-2025
Date of Test/Analysis :	09-01-2025 to 22-01-2025	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	58.9	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	49.7	IS 9989	65

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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Purnima Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No. 25600000150)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	25600000151	Date :	22-01-2025
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	07-01-2025
Point of Collection	N5 West Side Towards Kayad Village	Date of Receipt	09-01-2025
Date of Test/Analysis	09-01-2025 to 22-01-2025	Sampling Plan	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	59.7	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	50.5	IS 9989	65

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: 25600000151)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No.	25600000152	Date :	22-01-2025
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 :	07-01-2025
Point of Collection :	N6 South East Corner	Date of Receipt :	09-01-2025
Date of Test/Analysis :	09-01-2025 to 22-01-2025	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)]	57.5	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	48.4	IS 9989	65

Notes :-

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

Senior Analyst

Rajendra Singh
(Report No: 25600000152)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	25600000227	Date :	18-02-2025
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 :	03-02-2025
Point of Collection :	Kayad Village [26°31'44."N, 74°41'16.5"E]	Date of Receipt :	06-02-2025
Date of Test/Analysis :	06-02-2025 to 18-02-2025	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	48.8	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	39.7	IS 9989	45

Notes :-

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Puran Mah Yogi
Puran Mah Yogi
Senior Analyst

Rajesh Maheshwari
Rajesh Maheshwari
(Report No: 25600000227)

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

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

TEST REPORT

Report No./ULR No. :	25600000228	Date :	18-02-2025
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 :	03-02-2025
Point of Collection	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	06-02-2025
Date of Test/Analysis :	06-02-2025 to 18-02-2025	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)]	47.1	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	38.9	IS 9989	45

Notes :-

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Purni Mai Yogi
Senior Analyst


Rajesh Maheshwar
Authorized Signatory
(Report No: 25600000228)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	25600000230	Date :	18-02-2025
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 :	04-02-2025
Point of Collection	Sub Station	Date of Receipt :	06-02-2025
Date of Test/Analysis :	06-02-2025 to 18-02-2025	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

Sl. No.	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	58.3	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	49.7	IS 9989	65

Notes :-

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Suran Mai Yogi
Senior Analyst

Rajeshwari
Authorized Signatory

(Report No: 25600000230)

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

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

TEST REPORT

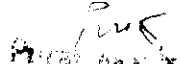
Report No./ULR No. :	25600000229	Date :	18-02-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	03-02-2025
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	06-02-2025
Date of Test/Analysis :	06-02-2025 to 18-02-2025	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)]	46.5	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	37.7	IS 9989	45

Notes :-

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Senior Analyst


Rajesh Maheshwar
Authorized Signatory
(Report No: 25600000229)



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JDA/UDL

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

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

TEST REPORT

Report No./ULR No. :	25600000232	Date :	18-02-2025
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 :	04-02-2025
Point of Collection :	N2 East Side Boundary Near West Dump	Date of Receipt :	06-02-2025
Date of Test/Analysis :	06-02-2025 to 18-02-2025	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules 1986
1	Noise Level (Day Time) : Leq [dB(A)]	59.6	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	50.5	IS 9989	65

Notes :

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Purni Mal Yogi
Senior Analyst

Rajesh Maheshwari
(Report No: 25600000232)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No.	25600000233	Date	18-02-2025
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	04-02-2025
Point of Collection	N3 North East Corner of Mine Boundary	Date of Receipt	06-02-2025
Date of Test/Analysis	06-02-2025 to 18-02-2025	Sampling Plan	TTH/NOISE/01
Quantity of Sample	-	Sample Collected By	Sitaram Jangid
Unit's representative	Mr Prakash Sharma	Condition of Sample	Fit for testing

RESULTS

S No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	59.2	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	50.3	IS 9989	65

Notes :

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Senior Analyst Yogi

Rajesh Maheshwari
(Report No: 25600000233)

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

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

TEST REPORT

Report No./ULR No. :	25600000234	Date :	18-02-2025
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 :	04-02-2025
Point of Collection :	N4 North West Corner of Mine Boundary	Date of Receipt :	06-02-2025
Date of Test/Analysis :	06-02-2025 to 18-02-2025	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

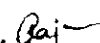
RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	57.9	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	48.7	IS 9989	65

Notes :

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Buran Mal Yogi


Rajesh Maheshwari
Authorized Signatory

(Report No: 25600000234)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No.	25600000235	Date :	18-02-2025
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 :	05-02-2025
Point of Collection	N5 West Side Towards Kayad Village	Date of Receipt :	06-02-2025
Date of Test/Analysis :	06-02-2025 to 18-02-2025	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)]	57.5	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	48.4	IS 9989	65

Notes :

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Purni Mai Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory

(Report No: 25600000235)

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

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

TEST REPORT

Report No./ULR No. :	25600000236	Date :	18-02-2025
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 :	05-02-2025
Point of Collection :	N6 South East Corner	Date of Receipt :	06-02-2025
Date of Test/Analysis :	06-02-2025 to 18-02-2025	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	59.2	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	50.2	IS 9989	65

Notes :-

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Puran Mat Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 25600000236)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	25600000369	Date :	19-03-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	06-03-2025
Point of Collection :	Kayad Village [26°31'44."N, 74°41'16.5"E]	Date of Receipt :	12-03-2025
Date of Test/Analysis :	12-03-2025 to 19-03-2025	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)]	47.7	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	38.6	IS 9989	45

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: 25600000369)



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

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

TEST REPORT

Report No./ULR No. :	25600000370	Date :	19-03-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	06-03-2025
Point of Collection :	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	12-03-2025
Date of Test/Analysis :	12-03-2025 to 19-03-2025	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)]	46.8	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	37.7	IS 9989	45

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 25600000370)



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

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

TEST REPORT

Report No./ULR No. :	25600000371	Date :	19-03-2025
Issued To	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	06-03-2025
Point of Collection	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	12-03-2025
Date of Test/Analysis :	12-03-2025 to 19-03-2025	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	48.7	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	39.5	IS 9989	45

Notes -

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P. S. Yogi
P. S. Yogi
Senior Analyst

Rajesh Maheshwari
Rajesh Maheshwari
Authorized Signatory
(Report No: 25600000371)



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

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

TEST REPORT

Report No./ULR No. :	25600000372	Date :	19-03-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	06-03-2025
Point of Collection :	Sub Station	Date of Receipt :	12-03-2025
Date of Test/Analysis :	12-03-2025 to 19-03-2025	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

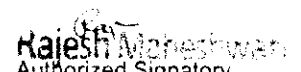
RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules. 1986
1	Noise Level (Day Time) : Leq [dB(A)]	59.2	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	50.1	IS 9989	65

Notes :-

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Puranvika Yogi
Senior Analyst


Rajesh Moheshwari
Authorized Signatory
(Report No: 25600000372)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No.	25600000373	Date :	19-03-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	06-03-2025
Point of Collection	N1 South West Corner of Mine Boundary	Date of Receipt :	12-03-2025
Date of Test/Analysis :	12-03-2025 to 19-03-2025	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

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

Notes :-

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Puri
Puri Mahi Yogi
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: 25600000373)

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

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

TEST REPORT

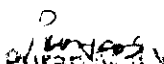
Report No./ULR No. :	25600000374	Date :	19-03-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	07-03-2025
Point of Collection :	N2 East Side Boundary Near West Dump	Date of Receipt :	12-03-2025
Date of Test/Analysis :	12-03-2025 to 19-03-2025	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

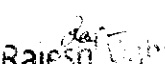
RESULTS

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

Notes -

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Purnima Yogi
Senior Analyst


Rakesh Choudhary
Authorized Signatory

(Report No: 25600000374)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	25600000375	Date :	19-03-2025
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 :	07-03-2025
Point of Collection :	N3 North East Corner of Mine Boundary	Date of Receipt :	12-03-2025
Date of Test/Analysis :	12-03-2025 to 19-03-2025	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

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

Notes :-

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Puran Mal Yadav
Senior Analyst

Rajesh Kumar Dwivedi
Authorized Signatory
(Report No: 25600000375)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	25600000376	Date :	19-03-2025
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 :	07-03-2025
Point of Collection :	N4 North West Corner of Mine Boundary	Date of Receipt :	12-03-2025
Date of Test/Analysis :	12-03-2025 to 19-03-2025	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)]	63.8	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	54.7	IS 9989	65

Notes :-

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Purani
Purani
Senior Analyst

Rajesh
Rajesh Maheshwar
Authorized Signatory
(Report No: 25600000376)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No.	25600000377	Date :	19-03-2025
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 :	07-03-2025
Point of Collection	N5 West Side Towards Kayad Village	Date of Receipt :	12-03-2025
Date of Test/Analysis :	12-03-2025 to 19-03-2025	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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Senior Analyst

Authorized Signatory
(Report No: 25600000377)



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

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

TEST REPORT

Report No./ULR No. :	25600000378	Date :	19-03-2025
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 :	07-03-2025
Point of Collection :	N6 South East Corner	Date of Receipt :	12-03-2025
Date of Test/Analysis :	12-03-2025 to 19-03-2025	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)]	64.5	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	55.4	IS 9989	65

Notes :-

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Purnima Yogi
Senior Analyst


Rajesh Maheshwar
Authorized Signatory
(Report No: 25600000378)

Hindustan Zinc Limited						
KAYAD MINE						
MINE WATER ANALYSIS REPORT October 2024 to March 2025					Annexure-III	
Parameters	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
TDS	3886	3927	3869	3925	3814	3897
TS	3914	3958	3897	3956	3841	3919
Suspended solids	28	31	28	31	27	22
Cynide	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Hardness	941.8	918.37	938.78	869.57	914.29	980.77
pH	7.34	7.49	7.24	7.12	7.46	7.19
Arsenic	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cadmium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Copper	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Iron	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Lead	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel	0.32	0.28	0.23	0.19	0.15	0.18
Zinc	2.41	2.63	2.25	2.75	2.54	2.36
Alkanility	54.75	66.6	96.14	68.97	62.7	86.52
Magnesium	-	-	86.66	92.57	85.65	74.81
Chloride	342.45	484.53	503.53	465.53	488.15	513.03
Sulphate	-	748.55	723.33	814.29	782.65	798.86

Except pH all unit in mg/l



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

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

TEST REPORT

Report No./ULR No. :	24200001798	Date :	11-11-2024
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 :	18-10-2024
Point of Collection :	Mine Water-	Date of Receipt :	19-10-2024
Date of Test/Analysis :	19-10-2024 to 11-11-2024	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]	3886	2540- C , APHA 24th Edition	Not Specified
2	Total Solids [mg/l]	3914	2540-B , APHA 24th Edition	-
3	Total Suspended Solids [mg/l]	28	2540-D , APHA 24th Edition	100
4	Biochemical Oxygen Demand (BOD) [mg/l]	6.43	5210-B , APHA 24th Edition	30
5	Chemical Oxygen Demand (COD) [mg/l]	20.38	5220-C , APHA 24th Edition	250
6	Cyanide [mg/l]	Less than 0.04	4500- CN D , APHA 24th Edition	0.2
7	Dissolved Oxygen [mg/l]	6.6	4500- O C , APHA 24th Edition	-
8	Fluoride [mg/l]	0.96	4500-F-C , APHA 24th Edition	2.0
9	Hardness (total) [mg/l]	941.18	2340- C , APHA 24th Edition	-
10	pH	7.34	4500 H+B , APHA 24th Edition	5.5 - 9.0
11	Phosphate (total) as P [mg/l]	Less than 1	4500-P C , APHA 24th Edition	5
12	Sulphate [mg/l]	More than 500	4500-SO4-E , APHA 24th Edition	Not Specified
13	Arsenic [mg/l]	Less than 0.01	3114- B , APHA 24th Edition	0.2
14	Cadmium [mg/l]	Less than 0.01	3111-B, APHA 24th Edition	2.0
15	Chromium Total [mg/l]	Less than 0.01	3111-B, APHA 24th Edition	2.0
16	Cobalt [mg/l]	Less than 0.01	3111-B, APHA 24th Edition	-
17	Copper [mg/l]	0.07	3111-B, APHA 24th Edition	3.0
18	Iron [mg/l]	Less than 0.5	3111-B, APHA 24th Edition	3.0

Signature
11-11-2024



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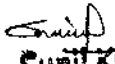
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C-Scheme, Jaipur - 302001, Rajasthan
Phone : +91 6377210064, 9414077379,
Website : www.teamtesthouse.com
Email : team.bhhead@gmail.com

Laboratory : G1-S84, RICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
19	Lead [mg/l]	Less than 0.01	3111-B, APHA 24th Edition	0.1
20	Manganese [mg/l]	Less than 0.05	3111-B, APHA 24th Edition	2.0
21	Mercury [mg/l]	Less than 0.01	3112- B , APHA 24th Edition	0.01
22	Nickel [mg/l]	0.32	3111-B, APHA 24th Edition	3.0
23	Zinc [mg/l]	2.41	3111-B, APHA 24th Edition	5.0
24	Oil & Grease [mg/l]	Less than 5	5520- B , APHA 24th Edition	10
25	Alkalinity - T [mg/l]	54.75	2320-B , APHA 24th Edition	-
26	Nitrate as NO3 [mg/l]	23.85	4500-NO3- B , APHA 24th Edition	50

Notes :-

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Sunil Kumar
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: 24200001798)



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

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

TEST REPORT

Report No./ULR No. :	200001798	Date :	11-11-2024
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 :	18-10-2024
Point of Collection :	Mine Water-	Date of Receipt :	19-10-2024
Date of Test/Analysis :	19-10-2024 to 11-11-2024	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
27	Chloride as Cl [mg/l]	342.45	4500- Cl- B , APHA 24th Edition	-

Notes :-

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Senior Analyst

Rajesh Moheshwari
Authorized Signatory
(Report No: 200001798)



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

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

TEST REPORT

Report No./ULR No. :	24200001964	Date :	02-12-2024
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 :	22-11-2024
Point of Collection :	Mine Water-	Date of Receipt :	25-11-2024
Date of Test/Analysis :	25-11-2024 to 02-12-2024	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]	3927	2540- C , APHA 24th Edition	Not Specified
2	Total Solids [mg/l]	3958	2540-B , APHA 24th Edition	-
3	Total Suspended Solids [mg/l]	31	2540-D , APHA 24th Edition	100
4	Biochemical Oxygen Demand (BOD) [mg/l]	8.75	5210-B , APHA 24th Edition	30
5	Chemical Oxygen Demand (COD) [mg/l]	56.58	5220-C , APHA 24th Edition	250
6	Cyanide [mg/l]	Less than 0.04	4500- CN D , APHA 24th Edition	0.2
7	Dissolved Oxygen [mg/l]	6.5	4500- O C , APHA 24th Edition	-
8	Fluoride [mg/l]	0.75	4500-F-C , APHA 24th Edition	2.0

Note:

Continue to next page...

Anil Kumar

Rakesh Sharma



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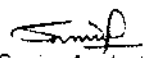
Laboratory : G1-584, RICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
9	Hardness (total) [mg/l]	918.37	2340- C , APHA 24th Edition	-
10	pH	7.49	4500 H+B , APHA 24th Edition	5.5 - 9.0
11	Phosphate (total) as P [mg/l]	Less than 1	4500-P C , APHA 24th Edition	5
12	Arsenic [mg/l]	Less than 0.01	3114- B , APHA 24th Edition	0.2
13	Cadmium [mg/l]	Less than 0.01	3111-B, APHA 24th Edition	2.0
14	Chromium Total [mg/l]	Less than 0.01	3111-B, APHA 24th Edition	2.0
15	Cobalt [mg/l]	Less than 0.01	3111-B, APHA 24th Edition	-
16	Copper [mg/l]	0.05	3111-B, APHA 24th Edition	3.0
17	Iron [mg/l]	Less than 0.5	3111-B, APHA 24th Edition	3.0
18	Lead [mg/l]	Less than 0.01	3111-B, APHA 24th Edition	0.1
19	Manganese [mg/l]	Less than 0.05	3111-B, APHA 24th Edition	2.0
20	Mercury [mg/l]	Less than 0.01	3112- B , APHA 24th Edition	0.01
21	Nickel [mg/l]	0.28	3111-B, APHA 24th Edition	3.0
22	Zinc [mg/l]	2.63	3111-B, APHA 24th Edition	5.0
23	Oil & Grease [mg/l]	Less than 5	5520- B , APHA 24th Edition	10
24	Alkalinity - T [mg/l]	66.6	2320-B , APHA 24th Edition	-
25	Nitrate as NO3 [mg/l]	29.85	4500-NO3- B , APHA 24th Edition	50

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Senior Analyst
Sunil Kumar


Authorized Signatory
(Report No. 24200001964)



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

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

TEST REPORT

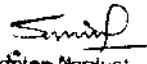
Report No./ULR No. :	200001964	Date :	02-12-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	22-11-2024
Point of Collection :	Mine Water-	Date of Receipt :	25-11-2024
Date of Test/Analysis :	25-11-2024 to 02-12-2024	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
26	Chloride as Cl [mg/l]	484.53	4500- Cl- B , APHA 24th Edition	-
27	Sulphate [mg/l]	748.55	4500-SO4-E , APHA 24th Edition	Not Specified

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Senior Analyst


Authorized Signatory
(Report No: 200001964)



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

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

TEST REPORT

Report No./ULR No. :	25200002104	Date :	01-01-2025
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 :	20-12-2024
Point of Collection :	Mine Water-1st	Date of Receipt :	21-12-2024
Date of Test/Analysis :	21-12-2024 to 01-01-2025	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]	3869	2540- C , APHA 24th Edition	Not Specified
2	Total Solids [mg/l]	3897	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]	938.78	2340- C , APHA 24th Edition	-
6	pH	7.24	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]	0.23	3111-B, APHA 24th Edition	3.0
15	Zinc [mg/l]	2.25	3111-B, APHA 24th Edition	5.0
16	Alkalinity - T [mg/l]	96.14	2320-B , APHA 24th Edition	-
17	Magnesium [mg/l]	86.66	3500-Mg-B , APHA 24th Edition	-

Notes :

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

Signature
Sundar Kumar

Signature
Rakesh Maheshwari



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

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

TEST REPORT

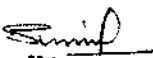
Report No./ULR No. :	200002104	Date :	01-01-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	20-12-2024
Point of Collection	Mine Water-1st	Date of Receipt :	21-12-2024
Date of Test/Analysis :	21-12-2024 to 01-01-2025	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]	503.53	4500- Cl- B , APHA 24th Edition	-
19	Sulphate [mg/l]	723.33	4500-SO4-E , APHA 24th Edition	Not Specified

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Sanil Kumar


Rajesh Mareshwar
Authorized Signatory
(Report No: 200002104)



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

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

TEST REPORT

Report No./ULR No. :	25200000025	Date :	27-01-2025
Issued To	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	08-01-2025
Point of Collection	Mine Water-1st	Date of Receipt :	09-01-2025
Date of Test/Analysis :	09-01-2025 to 27-01-2025	Sampling Plan :	APHA 2017 - 1060
Quantity of Sample :	2 ltr	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Dissolved Solids [mg/l]	3925	2540- C , APHA 24th Edition	Not Specified
2	Total Solids [mg/l]	3956	2540-B , APHA 24th Edition	-
3	Total Suspended Solids [mg/l]	31	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]	869.57	2340- C , APHA 24th Edition	-
6	pH	7.12	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]	0.19	3111-B, APHA 24th Edition	3.0
15	Zinc [mg/l]	2.75	3111-B, APHA 24th Edition	5.0
16	Alkalinity - T [mg/l]	68.97	2320-B , APHA 24th Edition	-
17	Magnesium [mg/l]	92.57	3500-Mg-B , APHA 24th Edition	-

Notes -

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Signature

Signature
Rajesh Maheshwari



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

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

TEST REPORT

Report No./ULR No.:	200000025	Date :	27-01-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	08-01-2025
Point of Collection	Mine Water-1st	Date of Receipt :	09-01-2025
Date of Test/Analysis :	09-01-2025 to 27-01-2025	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 ltr	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
18	Chloride as Cl [mg/l]	465.53	4500- Cl- B , APHA 24th Edition	-
19	Sulphate [mg/l]	814.29	4500-SO4-E , APHA 24th Edition	Not Specified

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Rajesh Maheshwari
Authorized Signatory
(Report No: 200000025)



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

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

TEST REPORT

Report No./ULR No.	25200000145	Date	20-02-2025
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	05-02-2025
Point of Collection	Mine Water-1st	Date of Receipt	06-02-2025
Date of Test/Analysis	06-02-2025 to 20-02-2025	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]	3814	2540- C , APHA 24th Edition	Not Specified
2	Total Solids [mg/l]	3841	2540-B , APHA 24th Edition	-
3	Total Suspended Solids [mg/l]	27	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]	914.29	2340- C , APHA 24th Edition	-
6	pH	7.46	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]	0.15	3111-B, APHA 24th Edition	3.0
15	Zinc [mg/l]	2.54	3111-B, APHA 24th Edition	5.0
16	Alkalinity - T [mg/l]	62.7	2320-B , APHA 24th Edition	-
17	Magnesium [mg/l]	85.65	3500-Mg-B , APHA 24th Edition	-

Notes -

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Rajesh Maheshwari



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

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

TEST REPORT

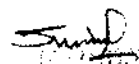
Report No./ULR No. :	200000145	Date :	20-02-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	05-02-2025
Point of Collection :	Mine Water-1st	Date of Receipt :	06-02-2025
Date of Test/Analysis :	06-02-2025 to 20-02-2025	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]	488.15	4500- Cl- B , APHA 24th Edition	-
19	Sulphate [mg/l]	782.65	4500-SO4-E , APHA 24th Edition	Not Specified

Notes -

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Senior Analyst


Rajesh Maheshwari
(Report No: 200000145)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	25200000304	Date :	21-03-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	08-03-2025
Point of Collection :	Mine Water-1st	Date of Receipt :	13-03-2025
Date of Test/Analysis :	13-03-2025 to 21-03-2025	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]	3897	2540- C , APHA 24th Edition	Not Specified
2	Total Solids [mg/l]	3919	2540-B , APHA 24th Edition	-
3	Total Suspended Solids [mg/l]	22	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]	980.77	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]	0.18	3111-B, APHA 24th Edition	3.0
15	Zinc [mg/l]	2.36	3111-B, APHA 24th Edition	5.0
16	Alkalinity - T [mg/l]	86.52	2320-B , APHA 24th Edition	-
17	Magnesium [mg/l]	74.81	3500-Mg-B , APHA 24th Edition	-

Notes :-

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

Sunil Kumar

Rajesh Maheshwari
Rajesh Maheshwari



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JDA/UDH

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TEST REPORT

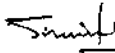
Report No./ULR No. :	200000304	Date :	21-03-2025
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	08-03-2025
Point of Collection :	Mine Water-1st	Date of Receipt :	13-03-2025
Date of Test/Analysis :	13-03-2025 to 21-03-2025	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]	513.03	4500- Cl- B , APHA 24th Edition	-
19	Sulphate [mg/l]	798.86	4500-SO4-E , APHA 24th Edition	Not Specified

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Senior Analyst
Sunil Kumar


Authorized Signatory
(Report No: 200000304)

Hindustan Zinc Limited

Kayad Mine

STP pH & Turbidity Monitoring Report October 2024 to March 2025														Annexure-VII	
Month	pH	Turbidity	Month	pH	Turbidity	Month	pH	Turbidity	Month	pH	Turbidity	Month	pH	Turbidity	
01/10/2024	7.4	2.1	01/11/2024	7.5	1.8	01/12/2024	7.5	2.4	01/01/2025	7.4	1.9	01/02/2025	7.3	2	
02/10/2024	7.2	2.2	02/11/2024	7.6	1.9	02/12/2024	7.4	1.2	02/01/2025	7.4	1.9	02/02/2025	7.6	2.3	
03/10/2024	7.4	2.6	03/11/2024	7.4	2.1	03/12/2024	7.2	2.6	03/01/2025	7.5	1.9	03/02/2025	7.5	2.2	
04/10/2024	7.5	2.6	04/11/2024	7.2	2.5	04/12/2024	7.4	1.1	04/01/2025	7.6	1.2	04/02/2025	7.3	2.2	
05/10/2024	7.3	2.5	05/11/2024	7.5	2.2	05/12/2024	7.3	7.1	05/01/2025	7.5	1.9	05/02/2025	7.4	2.5	
06/10/2024	7.6	2.33	06/11/2024	7.5	2.1	06/12/2024	7.1	2.6	06/01/2025	7.4	1.6	06/02/2025	7.3	2.4	
07/10/2024	7.2	2.6	07/11/2024	7.4	2.1	07/12/2024	7.5	2.2	07/01/2025	7.3	1.5	07/02/2025	7.2	2.4	
08/10/2024	7.4	2.7	08/11/2024	7.2	2.2	08/12/2024	7.3	2.2	08/01/2025	7.3	1.8	08/02/2025	7.4	2.1	
09/10/2024	7.7	1.1	09/11/2024	7.1	2.5	09/12/2024	7.4	2.5	09/01/2025	7.2	2.1	09/02/2025	7.6	1.6	
10/10/2024	7.3	1.5	10/11/2024	7.3	2.9	10/12/2024	7.7	2.4	10/01/2025	7.3	2.1	10/02/2025	7.5	2.4	
11/10/2024	7.4	1.5	11/11/2024	7.2	3.6	11/12/2024	7.5	2.1	11/01/2025	7.5	2.5	11/02/2025	7.7	1.9	
12/10/2024	7.4	2.4	12/11/2024	7.4	2.9	12/12/2024	7.4	2.2	12/01/2025	7.6	2.6	12/02/2025	7.4	2.6	
13/10/2024	7.2	2.9	13/11/2024	7.5	2.8	13/12/2024	7.4	2.2	13/01/2025	7.4	2.7	13/02/2025	7.2	2.1	
14/10/2024	7.2	2.8	14/11/2024	7.6	1.2	14/12/2024	7.2	2.3	14/01/2025	7.2	2.1	14/02/2025	7.3	2.3	
15/10/2024	7.2	2.3	15/11/2024	7.4	2.1	15/12/2024	7.1	2.1	15/01/2025	7.4	2.2	15/02/2025	7.1	2.5	
16/10/2024	7.4	3.2	16/11/2024	7.2	2.2	16/12/2024	7.2	2.2	16/01/2025	7.6	2.7	16/02/2025	7.4	2.6	
17/10/2024	7.6	3.5	17/11/2024	7.2	2.6	17/12/2024	7.4	2.8	17/01/2025	7.7	2.8	17/02/2025	7.3	2.1	
18/10/2024	7.4	2.1	18/11/2024	7.3	2.8	18/12/2024	7.3	2.4	18/01/2025	7.5	2.6	18/02/2025	7.4	2.4	
19/10/2024	7.6	2.21	19/11/2024	7.1	2.7	19/12/2024	7.5	2.4	19/01/2025	7.4	2.9	19/02/2025	7.5	2.9	
20/10/2024	7.5	2.2	20/11/2024	7.5	2.9	20/12/2024	7.5	2.5	20/01/2025	7.3	2.8	20/02/2025	7.3	2.4	
21/10/2024	7.4	2	21/11/2024	7.5	2.4	21/12/2024	7.4	2.6	21/01/2025	7.3	2.6	21/02/2025	7.3	2.1	
22/10/2024	7.6	2.5	22/11/2024	7.4	2.6	22/12/2024	7.6	2.4	22/01/2025	7.2	2.5	22/02/2025	7.1	2.7	
23/10/2024	7.8	2.1	23/11/2024	7.2	2.6	23/12/2024	7.4	2.1	23/01/2025	7.4	1.9	23/02/2025	7.4	2.2	
24/10/2024	7.4	2.1	24/11/2024	7.6	2.8	24/12/2024	7.3	2.1	24/01/2025	7.5	1.6	24/02/2025	7.3	2.5	
25/10/2024	7.4	2.2	25/11/2024	7.3	2.1	25/12/2024	7.2	2.2	25/01/2025	7.4	2.3	25/02/2025	7.2	2.2	
26/10/2024	7.2	2.2	26/11/2024	7.2	2.2	26/12/2024	7.3	2.2	26/01/2025	7.5	2.4	26/02/2025	7.5	2.1	
27/10/2024	7.2	2.4	27/11/2024	7.5	2.3	27/12/2024	7.4	2.2	27/01/2025	7.6	2.9	27/02/2025	7.6	2.5	
28/10/2024	7.1	1.9	28/11/2024	7.1	2.4	28/12/2024	7.5	2.6	28/01/2025	7.7	3.1	28/02/2025	7.4	2.4	
29/10/2024	7.3	1.8	29/11/2024	7.4	2.6	29/12/2024	7.3	2.1	29/01/2025	7.5	2.5				
30/10/2024	7.5	1.6	30/11/2024	7.6	2.8	30/12/2024	7.5	2.9	30/01/2025	7.5	1.9				
31/10/2024	7.7	1.9			31/12/2024	7.3	2.8	31/01/2025	7.3	2.1					

Hindustan Zinc Limited

Kayad Mine

Water Level of Piezometers & Open Wells October 2024 to March 2025										Annexure-IV	
S.No	Source Code	Location with Landmark	Latitude	Longitude	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	
1	P-1	Piezometer-1 near VTC-HZL	N26°31'44.1"	E74°41'19.2"	21.6	21.8	16.9	14.9	14.5	17.5	
2	P-2	Near mine dumped area, HZI fuel	N26°31'56.9"	E74°41'41.1"	19.2	18.1	18.4	16.8	16.7	17.7	
3	P-3	Plantation area, nursery near other collapsed borewell	N26°32'10.0"	E74°41'44.4"	9.1	9.5	15.9	14.1	14.2	7	
4	P-4	New drilled borewell, near ANFO mixing plant, HZL boundary wall	26°32'02.0"	74°41'45.2"	9.8	9.2	12.7	11.3	11.1	19.8	
5	P-5	New drilled borewell, DG set area	26°31'40.3"	74°41'29.1"	15.9	15.4	17.6	14.4	14.5	8.5	
6	W-1	Man Singh Raghuveer singh chandwal kayad/naeem bhutta	N26°33'25.7"	E74°41'45.9"	15.5	15.8	15.7	15.4	15.2	3.7	
7	W-2	Gurjar well near Akbar Minar and ARG opp SK associates	N26°32'48.6"	E74°42'24.8"	16.4	16.6	16.5	16.1	16.2		
8	W-3	Near Talab Area, land planning by property dealers/poultry farm	N26°32'08.3"	E74°42'27.7"	17.1	17.3	17.1	17.2	16.8	9.8	
9	W-4	Mohan gurjar well kayad	N26°31'11.7"	E74°41'02.7"	17.3	17.4	16.8	16.5	16.6		
10	W-5	Near outside well HZI Boundary wall near outside HZL road area	N26°31'52.7"	E74°41'36.0"	16.7	16.5	16.4	15.9	15.4	9.6	
11	W-6	Near govt. school/Mr. Sultan Master, Kamanuddin Nizam ji kayar	N26°31'38.7"	E74°41'11.3"	17.5	17.8	17.3	17.1	17.3		

water level in meters



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	25100001653	Date :	04-01-2025
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 :	20-12-2024
Point of Collection	PW - 1	Date of Receipt :	21-12-2024
Date of Test :	21-12-2024 to 04-01-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
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
1	pH	6.89	IS 3025 (Part 11) : 1983 RA 2017
2	Total Hardness [mg/l]	1712.96	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	0.03	IS 3025 (Part 53) : 2003 RA 2019
4	Total Dissolved Solids [mg/l]	5796	IS 3025 (Part 16) : 1984 RA 2017
5	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019
6	Sulphate [mg/l]	867	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]	Less than 0.01	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]	533.2	IS 3025 (Part 23) : 1986 RA 2019

Note:

Continue to next page...

Per
Rakesh Sharma



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

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]	126	IS 3025 (Part 17) : 1984 RA 2017
13	Cobalt [mg/l]	Less than 0.05	3113 -B , APHA 24th Edition
14	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003 RA 2019

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Balram
Balram Agarwal
Senior Analyst

Rajesh
Rajesh Singhwar
Authorized Signatory
(Report No: 25100001653)



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

TEST REPORT

Report No./ULR No. :	100001653	Date :	04-01-2025
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 :	20-12-2024
Point of Collection :	PW - 1	Date of Receipt :	21-12-2024
Date of Test :	21-12-2024 to 04-01-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fil for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
15	Chloride [mg/l]	1797.32	IS 3025 (Part 32) : 1988 RA 2019
16	Total Solids [mg/l]	5922	IS 3025 (part 15) : 1984 RA 2019

Notes :-

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Balran
Senior Analyst

Rajesh Kumar
Authorized Signatory
(Report No: 100001653)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	25100001654	Date :	04-01-2025
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 :	20-12-2024
Point of Collection	PW - 2	Date of Receipt :	21-12-2024
Date of Test :	21-12-2024 to 04-01-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
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
1	pH	7.51	IS 3025 (Part 11) : 1983 RA 2017
2	Total Hardness [mg/l]	2099.01	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	Less than 0.01	IS 3025 (Part 53) : 2003 RA 2019
4	Total Dissolved Solids [mg/l]	4866	IS 3025 (Part 16) : 1984 RA 2017
5	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019
6	Sulphate [mg/l]	415.2	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]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019
9	Zinc [mg/l]	Less than 0.01	IS 3025 (Part 49) : 1994 RA 2019
10	Alkalinity - T [mg/l]	576.2	IS 3025 (Part 23) : 1986 RA 2019

Note.

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Rajesh Maheshwar
Rajesh Maheshwar



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JDA/UDH

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

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

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
11	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019
12	Total Suspended Solids [mg/l]	84	IS 3025 (Part 17) : 1984 RA 2017
13	Cobalt [mg/l]	Less than 0.05	3113 -B , APHA 24th Edition
14	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003 RA 2019

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Balram Agarwal
Senior Analyst


Rajesh Maneshwar
Authorized Signatory
(Report No. 25100001654)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	100001654	Date :	04-01-2025
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 :	20-12-2024
Point of Collection :	PW - 2	Date of Receipt :	21-12-2024
Date of Test :	21-12-2024 to 04-01-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
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
15	Chloride [mg/l]	1889.49	IS 3025 (Part 32) : 1988 RA 2019
16	Total Solids [mg/l]	4950	IS 3025 (part 15) : 1984 RA 2019

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Balram Agarwal
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: 100001654)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	25100001655	Date :	04-01-2025
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 :	20-12-2024
Point of Collection :	PW - 3	Date of Receipt :	21-12-2024
Date of Test :	21-12-2024 to 04-01-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
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
1	pH	7.37	IS 3025 (Part 11) : 1983 RA 2017
2	Total Hardness [mg/l]	2514.85	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	0.05	IS 3025 (Part 53) : 2003 RA 2019
4	Total Dissolved Solids [mg/l]	5432	IS 3025 (Part 16) : 1984 RA 2017
5	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019
6	Sulphate [mg/l]	1142.7	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]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019
9	Zinc [mg/l]	Less than 0.01	IS 3025 (Part 49) : 1994 RA 2019
10	Alkalinity - T [mg/l]	344	IS 3025 (Part 23) : 1986 RA 2019

Note:

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Rakesh
Rakesh Maheshwari



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

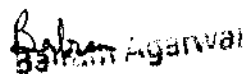
Laboratory : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

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]	73	IS 3025 (Part 17) : 1984 RA 2017
13	Cobalt [mg/l]	Less than 0.05	3113 -B , APHA 24th Edition
14	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003 RA 2019

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Senior Analyst


Authorized Signatory
(Report No: 25100001655)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	100001655	Date :	04-01-2025
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 :	20-12-2024
Point of Collection :	PW - 3	Date of Receipt :	21-12-2024
Date of Test :	21-12-2024 to 04-01-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
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
15	Chloride [mg/l]	1889.49	IS 3025 (Part 32) : 1988 RA 2019
16	Total Solids [mg/l]	5505	IS 3025 (part 15) : 1984 RA 2019

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Balram
Balram Agarwal
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No. 100001655)



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

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

TEST REPORT

Report No./ULR No. :	25100001656	Date :	04-01-2025
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 :	20-12-2024
Point of Collection	PW - 4	Date of Receipt :	21-12-2024
Date of Test :	21-12-2024 to 04-01-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
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
1	pH	7.02	IS 3025 (Part 11) : 1983 RA 2017
2	Total Hardness [mg/l]	1762.38	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	Less than 0.01	IS 3025 (Part 53) : 2003 RA 2019
4	Total Dissolved Solids [mg/l]	4758	IS 3025 (Part 16) : 1984 RA 2017
5	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019
6	Sulphate [mg/l]	1237.5	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]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019
9	Zinc [mg/l]	0.02	IS 3025 (Part 49) : 1994 RA 2019
10	Alkalinity - T [mg/l]	266.6	IS 3025 (Part 23) : 1986 RA 2019

Note

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Rakesh Sharma
Rakesh Sharma



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JDA/UDH

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

Laboratory : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
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]	115	IS 3025 (Part 17) : 1984 RA 2017
13	Cobalt [mg/l]	Less than 0.05	3113 -B . APHA 24th Edition
14	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003 RA 2019

Notes -

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Balram Agarwal
Senior Analyst


Authorized Signatory
(Report No. 25100001656)



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JDA/UDH

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

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

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Report No./ULR No. :	100001656	Date :	04-01-2025
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 :	20-12-2024
Point of Collection	PW - 4	Date of Receipt :	21-12-2024
Date of Test :	21-12-2024 to 04-01-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
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
15	Chloride [mg/l]	1768.07	IS 3025 (Part 32) : 1988 RA 2019
16	Total Solids [mg/l]	4873	IS 3025 (part 15) : 1984 RA 2019

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Balram Agarwal
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: 100001656)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No.:	25100001657	Date :	04-01-2025
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 :	20-12-2024
Point of Collection :	PW - 5	Date of Receipt :	21-12-2024
Date of Test :	21-12-2024 to 04-01-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
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
1	pH	7.18	IS 3025 (Part 11) : 1983 RA 2017
2	Total Hardness [mg/l]	2990.1	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	0.09	IS 3025 (Part 53) : 2003 RA 2019
4	Total Dissolved Solids [mg/l]	5387	IS 3025 (Part 16) : 1984 RA 2017
5	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019
6	Sulphate [mg/l]	1640.9	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]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019
9	Zinc [mg/l]	0.02	IS 3025 (Part 49) : 1994 RA 2019
10	Alkalinity - T [mg/l]	199.52	IS 3025 (Part 23) : 1986 RA 2019

Note:

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Rajesh
Rajesh Maheshwari



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JDA/UDH

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

Laboratory : G1-584, RHCO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketing@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]	82	IS 3025 (Part 17) : 1984 RA 2017
13	Cobalt [mg/l]	Less than 0.05	3113 -B , APHA 24th Edition
14	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003 RA 2019

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Balram Agarwal
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: 25100001657)



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JDA/CDH

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

Laboratory : G-1-584, RHCO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No :	100001657	Date :	04-01-2025
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 :	20-12-2024
Point of Collection :	PW - 5	Date of Receipt :	21-12-2024
Date of Test :	21-12-2024 to 04-01-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
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
15	Chloride [mg/l]	1933.09	IS 3025 (Part 32) : 1988 RA 2019
16	Total Solids [mg/l]	5469	IS 3025 (part 15) : 1984 RA 2019

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B. Agarwal
Senior Analyst

R. Chaturvedi
Authorized Signatory
(Report No: 100001657)



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

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

TEST REPORT

Report No./ULR No. :	25100000172	Date :	17-03-2025
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	05-02-2025
Point of Collection	PW - 1	Date of Receipt	06-02-2025
Date of Test/Analysis :	06-02-2025 to 17-03-2025	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	7.63	IS 3025 (Part 11) : 1983 RA 2017
2	Total Hardness [mg/l]	4622.64	IS 3025 (Part 21) : 2009 RA 2019
3	Total Dissolved Solids [mg/l]	10256	IS 3025 (Part 16) : 1984 RA 2017
4	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019
5	Sulphate [mg/l]	742.86	IS 3025 (Part 24) : 1986 RA 2019
6	Cadmium [mg/l]	Less than 0.001	IS 3025 (Part 41) : 1992 RA 2019
7	Lead [mg/l]	Less than 0.01	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]	430	IS 3025 (Part 23) : 1986 RA 2019
10	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019

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JDAA/UDH

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

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

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
11	Total Suspended Solids [mg/l]	285	IS 3025 (Part 17) : 1984 RA 2017
12	Cobalt [mg/l]	Less than 0.05	3113 -B , APHA 24th Edition
13	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003 RA 2019

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Balram Agarwal
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: 25100000172)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	100000172	Date :	17-03-2025
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 :	05-02-2025
Point of Collection :	PW - 1	Date of Receipt :	06-02-2025
Date of Test/Analysis :	06-02-2025 to 17-03-2025	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	Iron [mg/l]	0.22	IS 3025 (Part 53) : 2003 RA 2019
15	Chloride [mg/l]	5161.52	IS 3025 (Part 32) : 1988 RA 2019
16	Total Solids [mg/l]	10541	IS 3025 (part 15) : 1984 RA 2019

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Balraj Aggarwal
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 100000172)



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JDA/TDH

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

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

TEST REPORT

Report No./ULR No. :	25100000173	Date :	17-03-2025
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 :	05-02-2025
Point of Collection	PW - 2	Date of Receipt :	06-02-2025
Date of Test/Analysis :	06-02-2025 to 17-03-2025	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	7.99	IS 3025 (Part 11) : 1983 RA 2017
2	Total Hardness [mg/l]	924.53	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	0.04	IS 3025 (Part 53) : 2003 RA 2019
4	Chloride [mg/l]	700.49	IS 3025 (Part 32) : 1988 RA 2019
5	Total Dissolved Solids [mg/l]	2472	IS 3025 (Part 16) : 1984 RA 2017
6	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019
7	Sulphate [mg/l]	370	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:

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Rajesh Maheshwari



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JDA/UDH

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

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

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
11	Alkalinity - T [mg/l]	473	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]	61	IS 3025 (Part 17) : 1984 RA 2017
14	Cobalt [mg/l]	Less than 0.05	3113 -B , APHA 24th Edition
15	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003 RA 2019

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Balram Agarwal
Senior Analyst


Rajesh Maneshwar
Authorized Signatory
(Report No: 25100000173)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	100000173	Date :	17-03-2025
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 :	05-02-2025
Point of Collection :	PW - 2	Date of Receipt :	06-02-2025
Date of Test/Analysis :	06-02-2025 to 17-03-2025	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]	2533	IS 3025 (part 15) : 1984 RA 2019

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Balram
Balram Singh
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: 100000173)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	25100000174	Date :	17-03-2025
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 :	05-02-2025
Point of Collection :	PW - 3	Date of Receipt :	06-02-2025
Date of Test/Analysis :	06-02-2025 to 17-03-2025	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	7.80	IS 3025 (Part 11) : 1983 RA 2017
2	Total Hardness [mg/l]	1867.92	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	0.07	IS 3025 (Part 53) : 2003 RA 2019
4	Total Dissolved Solids [mg/l]	4607	IS 3025 (Part 16) : 1984 RA 2017
5	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019
6	Sulphate [mg/l]	1014.29	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]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019
9	Zinc [mg/l]	Less than 0.01	IS 3025 (Part 49) : 1994 RA 2019
10	Alkalinity - T [mg/l]	92.88	IS 3025 (Part 23) : 1986 RA 2019

Note.

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Rajesh Maheshwari



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JDA/UDH

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

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

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
11	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019
12	Total Suspended Solids [mg/l]	92	IS 3025 (Part 17) : 1984 RA 2017
13	Cobalt [mg/l]	Less than 0.05	3113 -B , APHA 24th Edition
14	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003 RA 2019

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Balram Agarwal
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No. 25100000174)



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

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

TEST REPORT

Report No./ULR No. :	100000174	Date :	17-03-2025
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 :	05-02-2025
Point of Collection :	PW - 3	Date of Receipt :	06-02-2025
Date of Test/Analysis :	06-02-2025 to 17-03-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
15	Chloride [mg/l]	1843.4	IS 3025 (Part 32) : 1988 RA 2019
16	Total Solids [mg/l]	4699	IS 3025 (part 15) : 1984 RA 2019

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Balram Agarwal
Senior Analyst


Rajesh Maheshwar
Authorized Signatory
(Report No: 100000174)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	25100000175	Date :	17-03-2025
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 :	05-02-2025
Point of Collection	PW - 4	Date of Receipt :	06-02-2025
Date of Test/Analysis :	06-02-2025 to 17-03-2025	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	7.52	IS 3025 (Part 11) : 1983 RA 2017
2	Total Hardness [mg/l]	1415.09	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]	3219	IS 3025 (Part 16) : 1984 RA 2017
5	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019
6	Sulphate [mg/l]	1085.71	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]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019
9	Zinc [mg/l]	0.03	IS 3025 (Part 49) : 1994 RA 2019
10	Alkalinity - T [mg/l]	292.4	IS 3025 (Part 23) : 1986 RA 2019

Note:

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Rajesh Maneshwari



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JDA/ DH

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

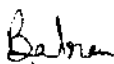
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Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

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]	83	IS 3025 (Part 17) : 1984 RA 2017
13	Cobalt [mg/l]	Less than 0.05	3113 -B , APHA 24th Edition
14	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003 RA 2019

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Balram Agarwal
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: 25100000175)



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ISO 45001:2018 (OH&S)

JDA/UDH

Office : E-65, Chitranganj Marg,

C-Scheme, Jaipur - 302001, Rajasthan

Phone : +91 6377210064, 9414077379,

Website : www.teamtesthouse.com

Email : team.bdhead@gmail.com

Laboratory : G1-584, RHCO Industrial Area,

Sitapura, Jaipur - 302022, Rajasthan

Phone : +91 9460222039, 9460222049,

Email : director@teamtesthouse.com,

Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	100000175	Date :	17-03-2025
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 :	05-02-2025
Point of Collection	PW - 4	Date of Receipt :	06-02-2025
Date of Test/Analysis :	06-02-2025 to 17-03-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
15	Chloride [mg/l]	1221.25	IS 3025 (Part 32) : 1988 RA 2019
16	Total Solids [mg/l]	3302	IS 3025 (part 15) : 1984 RA 2019

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Balraj Agarwal
Balraj Agarwal
 Senior Analyst

Rajesh Maheshwar
Rajesh Maheshwar
 Authorized Signatory
 (Report No: 100000175)



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

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

TEST REPORT

Report No./ULR No. :	25100000205	Date :	17-03-2025
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 :	05-02-2025
Point of Collection :	PW - 5	Date of Receipt :	15-02-2025
Date of Test/Analysis :	15-02-2025 to 17-03-2025	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	7.89	IS 3025 (Part 11) : 1983 RA 2017
2	Total Hardness [mg/l]	830.19	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	0.07	IS 3025 (Part 53) : 2003 RA 2019
4	Total Dissolved Solids [mg/l]	4215	IS 3025 (Part 16) : 1984 RA 2017
5	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019
6	Sulphate [mg/l]	1385.4	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]	Less than 0.01	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]	285.52	IS 3025 (Part 23) : 1986 RA 2019

Note:

Continue to next page..

Rajesh Maheshwari
Rajesh Maheshwari



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JDA/UDH

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

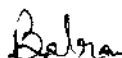
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Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
11	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019
12	Total Suspended Solids [mg/l]	97	IS 3025 (Part 17) : 1984 RA 2017
13	Cobalt [mg/l]	Less than 0.05	3113 -B , APHA 24th Edition
14	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003 RA 2019

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Balram Agarwal
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: 25100000205)



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

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

TEST REPORT

Report No./ULR No. :	100000205	Date :	17-03-2025
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 :	05-02-2025
Point of Collection	PW - 5	Date of Receipt :	15-02-2025
Date of Test/Analysis :	15-02-2025 to 17-03-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr	Sample Collected By :	Sitaram jangid
Unit's representative	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
15	Chloride [mg/l]	345.64	IS 3025 (Part 32) : 1988 RA 2019
16	Total Solids [mg/l]	4312	IS 3025 (part 15) : 1984 RA 2019

Notes -

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

Rajesh Agarwal
Senior Analyst

Rajesh Maheshwar
Authorized Signatory
(Report No: 100000205)



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



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RSPCB

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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	25100000244	Date :	20-03-2025
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 :	24-02-2025
Point of Collection :	Village Kayad	Date of Receipt :	25-02-2025
Date of Test/Analysis :	25-02-2025 to 20-03-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
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	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	7.69	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
2	Total Hardness [mg/l]	313.73	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]	147.47	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	794	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	20.63	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]	32.48	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	0.01	-
12	Zinc [mg/l]	Less than 0.01	IS 3025 (Part 49) : 1994 RA 2019	5	15



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ISO 45001:2018 (OH&S)

JDA/UDH

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

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

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]	296.25	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]	17	IS 3025 (Part 17) : 1984 RA 2017	-	-
17	Cobalt [mg/l]	Less than 0.05	3113 -B , APHA 24th Edition	-	-
18	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003 RA 2019	0.02	-

Notes :-

- # Limits mentioned as per IS 10500:2012 is of Drinking water. There is no prescribed limit for Surface/Ground water etc.
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Balram Agarwal
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 25100000244)



Office : F-55, Chitranganj Marg,
C Scheme, Jaipur - 302001, Rajasthan
Phone : +91 9377210064, 9414077379,
Website : www.teamtesthouse.com
Email : team.bhhead@gmail.com

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

TEST REPORT

Report No./ULR No. :	100000244	Date :	20-03-2025
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 :	24-02-2025
Point of Collection :	Village Kayad	Date of Receipt :	25-02-2025
Date of Test/Analysis :	25-02-2025 to 20-03-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
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	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]	811	IS 3025 (part 15) : 1984 RA 2019	-	-

Notes :-

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Balram Agarwal
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 100000244)



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

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

TEST REPORT

Report No./ULR No. :	25100000245	Date :	20-03-2025
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 :	24-02-2025
Point of Collection :	Lohagal Village	Date of Receipt :	25-02-2025
Date of Test/Analysis :	25-02-2025 to 20-03-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
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	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	8.03	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
2	Total Hardness [mg/l]	137.25	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
	Iron [mg/l]	Less than 0.01	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
4	Chloride [mg/l]	106	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	486	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	18.34	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]	54.26	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	0.01	-
12	Zinc [mg/l]	Less than 0.01	IS 3025 (Part 49) : 1994 RA 2019	5	15

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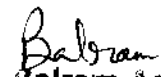
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Office : E-65, Chitranganj Marg, C-Scheme, Jaipur - 302001, Rajasthan Phone : +91 6377240064, 9414077379, Website : www.teamtesthouse.com Email : team.bdhead@gmail.com	Laboratory : G1-584, RICO Industrial Area, Sitapura, Jaipur - 302022, Rajasthan Phone : +91 9460222039, 9460222049, Email : director@teamtesthouse.com, Email : marketinglab@teamtesthouse.com			

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]	237	IS 3025 (Part 23) : 1986 RA 2019	200	600
14	Mercury [mg/l]	Less than 0.001	IS 3025 (Part 48) : 1994 RA 2019	0.001	No relaxation
15	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
16	Total Suspended Solids [mg/l]	Less than 10	IS 3025 (Part 17) : 1984 RA 2017	-	-
17	Cobalt [mg/l]	Less than 0.05	3113 -B , APHA 24th Edition	-	-
18	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003 RA 2019	0.02	-

Notes :-

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Balram Agarwal
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: 25100000245)



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Office : F-55, Chitranganj Marg,
C Scheme, Jaipur - 302001, Rajasthan
Phone : +91 6377210064, 9414077379,
Website : www.teamtesthouse.com
Email : team.bdlhead@gmail.com

Laboratory : G1-584, RICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222839, 9460222049,
Email : director@teamtesthouse.com,
Email : marketing@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	100000245	Date :	20-03-2025
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 :	24-02-2025
Point of Collection :	Lohagal Village	Date of Receipt :	25-02-2025
Date of Test/Analysis :	25-02-2025 to 20-03-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
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	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]	492	IS 3025 (part 15) : 1984 RA 2019	-	-

Notes :-

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Balram Agarwal
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: 100000245)



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

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

TEST REPORT

Report No./ULR No. :	25100000246	Date :	20-03-2025
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 :	24-02-2025
Point of Collection :	Gagwana Village	Date of Receipt :	25-02-2025
Date of Test/Analysis :	25-02-2025 to 20-03-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
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	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	8.41	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
2	Total Hardness [mg/l]	196.08	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]	29.49	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	358	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	11.46	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
7	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
8	Sulphate [mg/l]	37.14	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	0.01	-
12	Zinc [mg/l]	Less than 0.01	IS 3025 (Part 49) : 1994 RA 2019	5	15



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ISO 45001:2018 (OH&S)

JDA/UDH

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

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

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]	194.34	IS 3025 (Part 23) : 1986 RA 2019	200	600
14	Mercury [mg/l]	Less than 0.001	IS 3025 (Part 48) : 1994 RA 2019	0.001	No relaxation
15	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
16	Total Suspended Solids [mg/l]	Less than 10	IS 3025 (Part 17) : 1984 RA 2017	-	-
17	Cobalt [mg/l]	Less than 0.05	3113 -B , APHA 24th Edition	-	-
18	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003 RA 2019	0.02	-

Notes :-

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Balram
Balram Agarwal
Senior Analyst

Rajesh
Rajesh Maheshwar
Authorized Signatory
(Report No: 25100000246)



Team Institute of Science & Technology Pvt. Ltd.

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ISO 9001

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

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

TEST REPORT

Report No./ULR No. :	100000246	Date :	20-03-2025
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 :	24-02-2025
Point of Collection :	Gagwana Village	Date of Receipt :	25-02-2025
Date of Test/Analysis :	25-02-2025 to 20-03-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
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	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]	363	IS 3025 (part 15) : 1984 RA 2019	-	-

Notes :-

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Balram
Balram Agarwal
Senior Analyst

Rajesh
Rajesh Acharya
(Report No: 100000246)



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



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ISO 14001:2015,

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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	25100000247	Date :	20-03-2025
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 :	24-02-2025
Point of Collection :	Chatri Village	Date of Receipt :	25-02-2025
Date of Test/Analysis :	25-02-2025 to 20-03-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
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	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	7.37	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
2	Total Hardness [mg/l]	205.88	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]	230.43	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	1412	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	32.09	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]	164.29	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	0.01	-
12	Zinc [mg/l]	Less than 0.01	IS 3025 (Part 49) : 1994 RA 2019	5	15

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JDA/UDH

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

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

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]	308.1	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]	15	IS 3025 (Part 17) : 1984 RA 2017	-	-
17	Cobalt [mg/l]	Less than 0.05	3113 -B , APHA 24th Edition	-	-
18	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003 RA 2019	0.02	-

Notes :-

- # Limits mentioned as per IS 10500:2012 is of Drinking water. There is no prescribed limit for Surface/Ground water etc.
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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Balram
Balram Agarwal
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: 25100000247)



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JDAVI DH

Office : L-68, Chiranjani Marg,
C Scheme, Jaipur - 302001, Rajasthan
Phone : +91 6377210064, 9414077379,
Website : www.teamtesthouse.com
Email : team.bdhead@gmail.com

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

TEST REPORT

Report No./ULR No. :	100000247	Date :	20-03-2025
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 :	24-02-2025
Point of Collection :	Chatri Village	Date of Receipt :	25-02-2025
Date of Test/Analysis :	25-02-2025 to 20-03-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
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	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]	1427	IS 3025 (part 15) : 1984 RA 2019	-	-

Notes :-

- # Limits mentioned as per IS 10500:2012 is of Drinking water. There is no prescribed limit for Surface/Ground water etc.
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Balram
Balram Agarwal

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: 100000247)



Team Institute of Science & Technology Pvt. Ltd.

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

RSPCB

ISO 9001:2015

ISO 14001:2015

ISO 45001:2018 (OH&S)

JDA/LEH

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

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

TEST REPORT

Report No./ULR No.:	100000247	Date :	20-03-2025
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 :	24-02-2025
Point of Collection :	Chatri Village	Date of Receipt :	25-02-2025
Date of Test/Analysis :	25-02-2025 to 20-03-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
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	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]	1427	IS 3025 (part 15) : 1984 RA 2019	-	-

Notes :-

- # Limits mentioned as per IS 10500:2012 is of Drinking water. There is no prescribed limit for Surface/Ground water etc.
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Balram
Balram Agarwal

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: 100000247)

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

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

TEST REPORT

Report No./ULR No. :	25100001649	Date :	18-01-2025
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 :	20-12-2024
Point of Collection	Kayad Village (Hand Pump) Near Kayad pond	Date of Receipt :	21-12-2024
Date of Test/Analysis :	21-12-2024 to 18-01-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
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	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	7.28	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
2	Total Hardness [mg/l]	362.96	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]	134.99	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	650	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	25.2	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]	35.62	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	-

Note:

Continue to next page...

Per
Rajesh Maheshwari



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

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

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
11	Lead [mg/l]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019	0.01	-
12	Zinc [mg/l]	0.03	IS 3025 (Part 49) : 1994 RA 2019	5	15
13	Alkalinity - T [mg/l]	361.2	IS 3025 (Part 23) : 1986 RA 2019	200	600
14	Mercury [mg/l]	Less than 0.001	IS 3025 (Part 48) : 1994 RA 2019	0.001	No relaxation
15	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
16	Total Suspended Solids [mg/l]	Less than 10	IS 3025 (Part 17) : 1984 RA 2017	-	-
17	Cobalt [mg/l]	Less than 0.05	3113 -B , APHA 24th Edition	-	-
18	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003 RA 2019	0.02	-

Notes :-

- # Limits mentioned as per IS 10500:2012 is of Drinking water. There is no prescribed limit for Surface/Ground water etc.
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Balram Agarwal
Senior Analyst

Rajesh Maneshwari
Authorized Signatory
(Report No: 25100001649)



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

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JDA/UDH

Office : E-65, Chitranganj Marg,

C-Scheme, Jaipur - 302001, Rajasthan

Phone : +91 6377210064, 9414077379,

Website : www.teamtesthouse.com

Email : team.bdbhead@gmail.com

Laboratory : G1-584, RHC Industrial Area,

Sitapura, Jaipur - 302022, Rajasthan

Phone : +91 9460222039, 9460222049,

Email : director@teamtesthouse.com,

Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	100001649	Date :	18-01-2025
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 :	20-12-2024
Point of Collection :	Kayad Village (Hand Pump) Near Kayad pond	Date of Receipt :	21-12-2024
Date of Test/Analysis :	21-12-2024 to 18-01-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

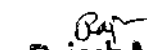
RESULTS

S.No	Parameters	Observed Value	Testing Protocol	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]	659	IS 3025 (part 15) : 1984 RA 2019	-	-

Notes :-

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Balram Agarwal
 Senior Analyst


Rajesh Maheshwar
 Authorized Signatory
 (Report No: 100001649)



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

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

TEST REPORT

Report No./ULR No. :	25100001650	Date :	18-01-2025
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 :	20-12-2024
Point of Collection :	Lohagal Village	Date of Receipt :	21-12-2024
Date of Test/Analysis :	21-12-2024 to 18-01-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
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	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	7.02	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
2	Total Hardness [mg/l]	305.56	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
3	Iron [mg/l]	0.03	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
4	Chloride [mg/l]	113.78	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	468	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	27	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
7	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
8	Sulphate [mg/l]	37.6	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	-

Note:

Continue to next page...

Rajesh Maheshwari
Rajesh Maheshwari



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JDA/UDH

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

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

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
11	Lead [mg/l]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019	0.01	-
12	Zinc [mg/l]	0.04	IS 3025 (Part 49) : 1994 RA 2019	5	15
13	Alkalinity - T [mg/l]	182.32	IS 3025 (Part 23) : 1986 RA 2019	200	600
14	Mercury [mg/l]	Less than 0.001	IS 3025 (Part 48) : 1994 RA 2019	0.001	No relaxation
15	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
16	Total Suspended Solids [mg/l]	Less than 10	IS 3025 (Part 17) : 1984 RA 2017	-	-
17	Cobalt [mg/l]	Less than 0.05	3113 -B , APHA 24th Edition	-	-
18	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003 RA 2019	0.02	-

Notes :-

- # Limits mentioned as per IS 10500:2012 is of Drinking water. There is no prescribed limit for Surface/Ground water etc.
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Balram Aganwal
Senior Analyst

Rakesh Maheshwari
Authorized Signatory
(Report No: 25100001650)

**TEAM TEST HOUSE****(Unit of Team Institute of Science & Technology Pvt. Ltd.)**

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

RSPCB

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ISO 14001:2015,

ISO 45001:2018 (OH&S)

JDA/UDR

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

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

TEST REPORT

Report No./ULR No. :	100001650	Date :	18-01-2025
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 :	20-12-2024
Point of Collection :	Lohagal Village	Date of Receipt :	21-12-2024
Date of Test/Analysis :	21-12-2024 to 18-01-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
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	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]	476	IS 3025 (part 15) : 1984 RA 2019	-	-

Notes :-

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Balram Agarwal
Senior Analyst

Rajesh Maheshwar
Authorized Signatory
(Report No: 100001650)

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

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

TEST REPORT

Report No./ULR No. :	25100001651	Date :	18-01-2025
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 :	20-12-2024
Point of Collection :	Gagwana Village	Date of Receipt :	21-12-2024
Date of Test/Analysis :	21-12-2024 to 18-01-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
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	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	7.91	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
2	Total Hardness [mg/l]	211.11	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]	34.71	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	341	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	27.9	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]	26.45	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	-

Note:

Continue to next page...

Rajesh
Rajesh Maheshwari



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



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ISO 45001:2018 (OH&S)

JDA/UDH

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

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

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
11	Lead [mg/l]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019	0.01	-
12	Zinc [mg/l]	Less than 0.01	IS 3025 (Part 49) : 1994 RA 2019	5	15
13	Alkalinity - T [mg/l]	309.6	IS 3025 (Part 23) : 1986 RA 2019	200	600
14	Mercury [mg/l]	Less than 0.001	IS 3025 (Part 48) : 1994 RA 2019	0.001	No relaxation
15	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
16	Total Suspended Solids [mg/l]	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 :-

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Sakam Agarwal

Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: 25100001651)



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

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IDA/UDH

Office : E-65, Chitrangan Marg,

C-Scheme, Jaipur - 302001, Rajasthan

Phone : +91 6377210064, 9414077379,

Website : www.teamtesthouse.com

Email : team.bdhead@gmail.com

Laboratory : G1-584, RICO Industrial Area,

Sitapura, Jaipur - 302022, Rajasthan

Phone : +91 9460222039, 9460222049,

Email : director@teamtesthouse.com,

Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	100001651	Date :	18-01-2025
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 :	20-12-2024
Point of Collection :	Gagwana Village	Date of Receipt :	21-12-2024
Date of Test/Analysis :	21-12-2024 to 18-01-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
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	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]	353	IS 3025 (part 15) : 1984 RA 2019	-	-

Notes :-

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

Balram Agarwal

Senior Analyst

Rakesh Maheshwari
Rakesh Maheshwari
(Report No: 100001651)



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

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

TEST REPORT

Report No./ULR No. :	25100001652	Date :	18-01-2025
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 :	20-12-2024
Point of Collection :	Chatri Village	Date of Receipt :	21-12-2024
Date of Test/Analysis :	21-12-2024 to 18-01-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
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	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	7.16	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
2	Total Hardness [mg/l]	203.7	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]	162.66	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	1382	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	29.25	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]	149.42	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	-

Note:

Continue to next page...

Rajesh Maheshwari
Rajesh Maheshwari



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JDA/UDH

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

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

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
11	Lead [mg/l]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019	0.01	-
12	Zinc [mg/l]	0.22	IS 3025 (Part 49) : 1994 RA 2019	5	15
13	Alkalinity - T [mg/l]	270.9	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]	18	IS 3025 (Part 17) : 1984 RA 2017	-	-
17	Cobalt [mg/l]	Less than 0.05	3113 -B , APHA 24th Edition	-	-
18	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003 RA 2019	0.02	-

Notes :-

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Balram Agarwal
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 25100001652)



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IDA/UDH

Office : E-65, Chitranjan Marg,

C-Scheme, Jaipur - 302001, Rajasthan

Phone : +91 6377210064, 9414077379,

Website : www.teamtesthouse.com

Email : team.bdhead@gmail.com

Laboratory : G1-584, RICO Industrial Area,

Sitapura, Jaipur - 302022, Rajasthan

Phone : +91 9460222039, 9460222049,

Email : director@teamtesthouse.com,

Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	100001652	Date :	18-01-2025
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 :	20-12-2024
Point of Collection :	Chatri Village	Date of Receipt :	21-12-2024
Date of Test/Analysis :	21-12-2024 to 18-01-2025	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
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	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]	1400	IS 3025 (part 15) : 1984 RA 2019	-	-

Notes :-

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Balram
Balram Agarwal
 Senior Analyst

Rakesh
Rakesh Maheshwari
 Authorized Signatory
 (Report No: 100001652)



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

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

TEST REPORT

Report No./ULR No.	24100001011	Date	31-08-2024
Issued To	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit	Mines
Type of Sample	Ground Water/Surface Water	Date of Sample Collection/Monitoring	06-08-2024
Point of Collection	Phool Sagar (Surface water)	Date of Receipt	10-08-2024
Date of Test/Analysis	10-08-2024 to 31-08-2024	Sampling Plan	IS 3025.1987(Part 1)RA 2014
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	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	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	Agreeable
3	Taste	Agreeable	IS 3025 (Part 7) : 2017 & (Part 8) : 1984 RA 2017	Agreeable	Agreeable
4	Turbidity [NTU]	Less than 0.5	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
5	pH	7.14	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
6	Total Hardness [mg/l]	69.23	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
7	Iron [mg/l]	More than 0.1	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
8	Chloride [mg/l]	52.25	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
9	Total Dissolved Solids [mg/l]	261	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
10	Calcium [mg/l]	19.23	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00

Note.

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Rajesh
Rajesh Maheshwari



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

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

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
11	Magnesium [mg/l]	5.14	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]	20.42	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
15	Nitrate [mg/l]	12.75	4500-NO3- B, APHA 24th Edition	45.00	-
16	Fluoride [mg/l]	0.25	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	5.00	15.00
21	Total Alkalinity [mg/l]	80.56	IS 3025 (Part 23) : 1986 RA 2019	200.00	600.00
22	Aluminum [mg/l]	Less than 0.01	IS 3025 (Part 55) : 2003 RA 2019	0.03	0.2
23	Boron [mg/l]	0.49	IS 13428 (Annexure H)	0.5	2.4
24	Chromium [mg/l]	Less than 0.05	3113-B, APHA 24th Edition	0.05	-
25	Mercury [mg/l]	Less than 0.001	IS 3025 (Part 48) : 1994 RA 2019	0.001	No relaxation
26	Cyanide [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
27	Anionic Surface Detergents as MBA's [mg/l]	Less than 0.1	IS 13428 (Annexure K)	0.20	1.00
28	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003 RA 2019	0.02	-
29	Phenolic Compound [mg/l]	Less than 0.001	IS 3025 (Part 43) : 1992 RA 2019	0.001	0.002
30	Free residual chlorine [mg/l]	Less than 0.1	IS 3025 (Part 26) : 1986 RA 2019	0.2(minimum)	1
31	Barium as Ba++ [mg/l]	Less than 0.5	IS 13428 (Annexure F)	0.7	-

Rajesh Maheshwari



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

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

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
32	Ammonia as NH ₃ [mg/l]	Less than 0.14	IS 3025 (Part 34) : 1988 RA 2019	0.5	-
33	Silver as Ag [mg/l]	Less than 0.01	3113 -B , APHA 24th Edition	0.1	-
34	Chloramines [mg/l]	Less than 0.1	4500-Cl G , APHA 24th Edition	4.0	-
35	Selenium [mg/l]	Less than 0.01	3114 -C , APHA 24th Edition	0.01	-

Notes

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Ram Agarwal
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 24100001011)



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

TEST REPORT

Report No./ULR No.	100001011	Date	31-08-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit	Mines
Type of Sample :	Ground Water/Surface Water	Date of Sample Collection/Monitoring :	06-08-2024
Point of Collection	Phool Sagar (Surface water)	Date of Receipt :	10-08-2024
Date of Test/Analysis :	10-08-2024 to 31-08-2024	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
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	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
36	sulphide [mg/l]	Less than 0.05	IS 3025 (Part 29) : 1986 RA 2019	0.05	-
37	Mineral oil [mg/l]	Less than 0.5	IS 3025 (Part 39) : 1991 RA 2019	1.0	-

Notes :

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Rajesh Agarwal
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No. 100001011)



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

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

TEST REPORT

Report No./ULR No.:	24100001011.	Date	27-08-2024
Issued To	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan)	Type of Unit	Mines
Type of Sample :	Ground Water/Surface Water	Date of Sample Collection/Monitoring :	06-08-2024
Point of Collection	Phool Sagar (Surface water)	Date of Receipt :	10-08-2024
Date of Test/Analysis :	10-08-2024 to 14-08-2024	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
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	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	-

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Ansh Chaturvedi
Senior Analyst

Sandeep Yadav
Authorized Signatory
(Report No: 24100001011.)



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JDA/UDH

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

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

TEST REPORT

Report No./ULR No. :	24100001012	Date :	31-08-2024
Issued To	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Ground Water/Surface Water	Date of Sample Collection/Monitoring :	06-08-2024
Point of Collection	Kayad Pond (Surface water)	Date of Receipt :	10-08-2024
Date of Test/Analysis :	10-08-2024 to 31-08-2024	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
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	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	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	Agreeable
3	Taste	Agreeable	IS 3025 (Part 7) : 2017 & (Part 8) : 1984 RA 2017	Agreeable	Agreeable
4	Turbidity (NTU)	Less than 0.5	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
5	pH	6.90	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
6	Total Hardness (mg/l)	538.46	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
7	Iron (mg/l)	Less than 0.01	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
8	Chloride (mg/l)	403.78	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
9	Total Dissolved Solids (mg/l)	1452	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
10	Calcium (mg/l)	173.08	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00

Note :

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Rajesh Maheshwari



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

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

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
11	Magnesium [mg/l]	25.7	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]	0.36	IS 3025 (Part 59) : 2006 RA 2017	0.1	0.3
14	Sulphate [mg/l]	142.85	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
15	Nitrate [mg/l]	40.50	4500-NO3- B , APHA 24th Edition	45.00	-
16	Fluoride [mg/l]	0.53	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
17	Cadmium [mg/l]	Less than 0.001	IS 3025 (Part 41) : 1992 RA 2019	0.003	-
18	Arsenic [mg/l]	Less than 0.001	IS 3025 (Part 37) : 1988 RA 2019	0.01	-
19	Lead [mg/l]	Less than 0.01	IS 3025 (Part 47) : 1994 RA 2019	0.01	-
20	Zinc [mg/l]	3.51	IS 3025 (Part 49) : 1994 RA 2019	5.00	15.00
21	Total Alkalinity [mg/l]	33.92	IS 3025 (Part 23) : 1986 RA 2019	200.00	600.00
22	Aluminum [mg/l]	Less than 0.01	IS 3025 (Part 55) : 2003 RA 2019	0.03	0.2
23	Boron [mg/l]	0.48	IS 13428 (Annexure H)	0.5	2.4
24	Chromium [mg/l]	Less than 0.05	3113 -B , APHA 24th Edition	0.05	-
25	Mercury [mg/l]	Less than 0.001	IS 3025 (Part 48) : 1994 RA 2019	0.001	No relaxation
26	Cyanide [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
27	Anionic Surface Detergents as MBA's [mg/l]	Less than 0.1	IS 13428 (Annexure K)	0.20	1.00
28	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003 RA 2019	0.02	-
29	Phenolic Compound [mg/l]	Less than 0.001	IS 3025 (Part 43) : 1992 RA 2019	0.001	0.002
30	Free residual chlorine [mg/l]	Less than 0.1	IS 3025 (Part 26) : 1986 RA 2019	0.2(minimum)	1
	Barium as Ba++ [mg/l]	Less than 0.5	IS 13428 (Annexure F)	0.7	-

Rajesh Maheshwari

Finclusion Zed Limited Tasyas Mine

Mine pond pH & Turbidity monitoring report

October 2024 to Mar 25

Month	pH	Turbidity	Month	pH	Turbidity	Month	pH	Turbidity	Month	pH	Turbidity	Month	pH	Turbidity	Month	pH	Turbidity
01/10/2024	7.4	4.6	01/11/2024	7.6	4.6	01/12/2024	8.0	3.1	01/01/2025	8.0	4.0	01/02/2025	7.8	3.0	01/03/2024	7.6	7.1
02/10/2024	7.3	4.8	02/11/2024	7.7	4.8	02/12/2024	8.1	3.6	02/01/2025	8.0	7.0	02/02/2025	7.8	2.9	02/03/2024	7.6	6.1
03/10/2024	7.3	3.4	03/11/2024	7.7	3.4	03/12/2024	8.2	3.7	03/01/2025	8.0	6.0	03/02/2025	7.9	5.0	03/03/2024	7.5	3.4
04/10/2024	7.3	4.2	04/11/2024	7.7	4.2	04/12/2024	8.1	4.0	04/01/2025	8.0	7.0	04/02/2025	7.9	7.0	04/03/2024	7.3	4.5
05/10/2024	7.3	3.7	05/11/2024	7.7	3.7	05/12/2024	8.0	4.0	05/01/2025	8.0	7.0	05/02/2025	7.7	6.5	05/03/2024	7.5	2.6
06/10/2024	7.3	4.9	06/11/2024	7.8	4.9	06/12/2024	8.0	4.3	06/01/2025	8.0	7.1	06/02/2025	7.8	6.0	06/03/2024	7.6	3.1
07/10/2024	7.3	2.9	07/11/2024	7.7	2.9	07/12/2024	8.0	4.0	07/01/2025	7.9	7.2	07/02/2025	7.8	6.6	07/03/2024	7.6	1.0
08/10/2024	7.3	4.2	08/11/2024	7.6	4.2	08/12/2024	8.0	4.2	08/01/2025	7.9	7.0	08/02/2025	7.8	6.6	08/03/2024	7.5	2.4
09/10/2024	7.3	9.5	09/11/2024	7.8	5.5	09/12/2024	7.9	4.3	09/01/2025	7.9	7.1	09/02/2025	7.8	6.6	09/03/2024	7.6	5.1
10/10/2024	7.3	3.9	10/11/2024	7.8	5.9	10/12/2024	7.9	4.0	10/01/2025	7.9	7.3	10/02/2025	7.5	6.6	10/03/2024	7.6	5.5
11/10/2024	7.3	4.2	11/11/2024	7.3	4.2	11/12/2024	7.9	3.8	11/01/2025	7.9	7.2	11/02/2025	7.8	6.6	11/03/2024	7.6	5.8
12/10/2024	7.3	5.1	12/11/2024	7.9	5.1	12/12/2024	8.0	4.5	12/01/2025	7.9	7.1	12/02/2025	7.8	6.7	12/03/2024	7.6	5.8
13/10/2024	7.2	3.6	13/11/2024	8.1	3.6	13/12/2024	8.0	4.1	13/01/2025	8.0	7.2	13/02/2025	7.8	6.4	13/03/2024	7.6	5.0
14/10/2024	7.2	7.9	14/11/2024	8.7	7.9	14/12/2024	8.1	5.0	14/01/2025	8.0	7.2	14/02/2025	7.8	6.7	14/03/2024	7.6	3.0
15/10/2024	7.6	5.1	15/11/2024	8.1	5.1	15/12/2024	8.0	4.9	15/01/2025	8.0	7.2	15/02/2025	7.8	5.8	15/03/2024	7.7	5.2
16/10/2024	7.6	4.1	16/11/2024	7.8	4.1	16/12/2024	7.9	4.9	16/01/2025	7.9	7.3	16/02/2025	7.8	7.0	16/03/2024	7.6	3.6
17/10/2024	7.6	8.2	17/11/2024	7.8	5.2	17/12/2024	7.9	4.8	17/01/2025	7.9	7.3	17/02/2025	7.7	5.1	17/03/2024	7.7	5.6
18/10/2024	7.3	3.6	18/11/2024	7.6	3.6	18/12/2024	7.8	4.5	18/01/2025	7.9	7.3	18/02/2025	7.6	5.3	18/03/2024	7.7	7.9
19/10/2024	7.6	0.6	19/11/2024	7.6	5.5	19/12/2024	7.8	4.6	19/01/2025	7.9	7.3	19/02/2025	7.6	5.7	19/03/2024	7.6	3.5
20/10/2024	7.2	4.2	20/11/2024	7.4	4.2	20/12/2024	7.9	4.4	20/01/2025	7.9	7.2	20/02/2025	7.6	5.4	20/03/2024	7.7	5.0
21/10/2024	7.3	4.9	21/11/2024	7.3	4.9	21/12/2024	7.9	5.2	21/01/2025	7.8	7.1	21/02/2025	7.6	5.0	21/03/2024	7.6	6.5
22/10/2024	7.2	5.2	22/11/2024	7.9	4.6	22/12/2024	7.9	5.6	22/01/2025	7.8	7.0	22/02/2025	7.4	4.8	22/03/2024	7.7	7.4
23/10/2024	7.2	5.1	23/11/2024	7.9	3.7	23/12/2024	7.9	5.3	23/01/2025	7.8	7.1	23/02/2025	7.8	7.2	23/03/2024	7.6	5.3
24/10/2024	7.8	7.2	24/11/2024	7.6	4.9	24/12/2024	7.9	5.4	24/01/2025	7.8	6.8	24/02/2025	7.8	7.0	24/03/2024	7.8	2.3
25/10/2024	7.8	7.0	25/11/2024	7.6	2.9	25/12/2024	8.0	6.1	25/01/2025	7.8	6.7	25/02/2025	7.6	5.7	25/03/2024	7.8	8.0
26/10/2024	7.8	6.8	26/11/2024	7.2	4.2	26/12/2024	8.0	6.2	26/01/2025	7.9	6.7	26/02/2025	7.3	6.0	26/03/2024	7.8	8.1
27/10/2024	7.9	5.8	27/11/2024	7.2	5.5	27/12/2024	7.9	6.0	27/01/2025	7.8	6.6	27/02/2025	7.8	7.7	27/03/2024	7.8	8.2
28/10/2024	7.9	7.2	28/11/2024	7.2	3.9	28/12/2024	7.9	5.9	28/01/2025	7.8	6.7	28/02/2025	7.9	7.6	28/03/2024	7.8	6.4
29/10/2024	7.9	4.8	29/11/2024	7.2	4.2	29/12/2024	7.9	5.3	29/01/2025	7.7	6.6	29/02/2025	7.7	6.6	29/03/2024	7.7	6.4
30/10/2024	7.9	7.3	30/11/2024	7.6	5.7	30/12/2024	8.0	5.9	30/01/2025	7.7	6.9	30/02/2025	7.7	6.9	30/03/2024	7.8	8.2
31/10/2024	7.3	3.6				31/12/2024	7.5	5.9	31/01/2025	7.7	6.8				31/02/2024	7.5	4.5

Hindustan Zinc Limited																	
Kayad Mine																	
STP pH& Turbidity Monitoring Report October 2024 to March 2025															Annexure-VII		
Month	pH	Turbidity	Month	pH	Turbidity	Month	pH	Turbidity	Month	pH	Turbidity	Month	pH	Turbidity	Month	pH	Turbidity
01/10/2024	7.4	2.1	01/11/2024	7.5	1.8	01/12/2024	7.5	2.4	01/01/2025	7.4	1.9	01/02/2025	7.3	2	01/03/2025	7.3	1.2
02/10/2024	7.2	2.2	02/11/2024	7.6	1.9	02/12/2024	7.4	1.2	02/01/2025	7.4	1.9	02/02/2025	7.6	2.3	02/03/2025	7.2	2.4
03/10/2024	7.4	2.6	03/11/2024	7.4	2.1	03/12/2024	7.2	2.6	03/01/2025	7.5	1.9	03/02/2025	7.5	2.2	03/03/2025	7.3	2.6
04/10/2024	7.5	2.6	04/11/2024	7.2	2.5	04/12/2024	7.4	1.1	04/01/2025	7.6	1.2	04/02/2025	7.3	2.2	04/03/2025	7.4	3.4
05/10/2024	7.3	2.5	05/11/2024	7.5	2.2	05/12/2024	7.3	2.1	05/01/2025	7.5	1.9	05/02/2025	7.4	2.5	05/03/2025	7.6	3.1
06/10/2024	7.6	2.33	06/11/2024	7.5	2.1	06/12/2024	7.1	2.6	06/01/2025	7.4	1.6	06/02/2025	7.3	2.4	06/03/2025	7.5	2.1
07/10/2024	7.2	2.6	07/11/2024	7.4	2.1	07/12/2024	7.5	2.2	07/01/2025	7.3	1.5	07/02/2025	7.2	2.4	07/03/2025	7.6	2.7
08/10/2024	7.4	2.7	08/11/2024	7.2	2.2	08/12/2024	7.3	2.2	08/01/2025	7.3	1.8	08/02/2025	7.4	2.1	08/03/2025	7.4	2.5
09/10/2024	7.7	1.1	09/11/2024	7.1	2.5	09/12/2024	7.4	2.5	09/01/2025	7.2	2.1	09/02/2025	7.6	1.6	09/03/2025	7.2	2.7
10/10/2024	7.3	1.5	10/11/2024	7.3	2.9	10/12/2024	7.7	2.4	10/01/2025	7.3	2.1	10/02/2025	7.5	2.4	10/03/2025	7.1	1.1
11/10/2024	7.4	1.5	11/11/2024	7.2	3.6	11/12/2024	7.5	2.1	11/01/2025	7.5	2.5	11/02/2025	7.7	1.9	11/03/2025	7.4	1.5
12/10/2024	7.4	2.4	12/11/2024	7.4	2.9	12/12/2024	7.4	2.2	12/01/2025	7.6	2.6	12/02/2025	7.4	2.6	12/03/2025	7.4	1.5
13/10/2024	7.2	2.9	13/11/2024	7.5	2.8	13/12/2024	7.4	2.2	13/01/2025	7.4	2.7	13/02/2025	7.2	2.1	13/03/2025	7.5	1.2
14/10/2024	7.2	2.8	14/11/2024	7.6	1.2	14/12/2024	7.2	2.3	14/01/2025	7.2	2.1	14/02/2025	7.3	2.3	14/03/2025	7.6	0.2
15/10/2024	7.2	2.3	15/11/2024	7.4	2.1	15/12/2024	7.1	2.1	15/01/2025	7.4	2.2	15/02/2025	7.1	2.5	15/03/2025	7.4	2.4
16/10/2024	7.4	3.2	16/11/2024	7.2	2.2	16/12/2024	7.2	2.2	16/01/2025	7.6	2.7	16/02/2025	7.4	2.6	16/03/2025	7.2	2.5
17/10/2024	7.6	3.5	17/11/2024	7.2	2.6	17/12/2024	7.4	2.8	17/01/2025	7.7	2.8	17/02/2025	7.3	2.1	17/03/2025	7.1	2.9
18/10/2024	7.4	2.1	18/11/2024	7.3	2.8	18/12/2024	7.3	2.4	18/01/2025	7.5	2.6	18/02/2025	7.4	2.4	18/03/2025	7.3	2.8
19/10/2024	7.6	2.21	19/11/2024	7.1	2.7	19/12/2024	7.5	2.4	19/01/2025	7.4	2.9	19/02/2025	7.5	2.9	19/03/2025	7.2	2.6
20/10/2024	7.5	2.2	20/11/2024	7.5	2.9	20/12/2024	7.5	2.5	20/01/2025	7.3	2.8	20/02/2025	7.3	2.4	20/03/2025	7.1	2.3
21/10/2024	7.4	2	21/11/2024	7.5	2.4	21/12/2024	7.4	2.6	21/01/2025	7.3	2.6	21/02/2025	7.3	2.1	21/03/2025	7.3	2.6
22/10/2024	7.6	2.5	22/11/2024	7.4	2.6	22/12/2024	7.6	2.4	22/01/2025	7.2	2.5	22/02/2025	7.1	2.7	22/03/2025	7.3	2.9
23/10/2024	7.8	2.1	23/11/2024	7.2	2.6	23/12/2024	7.4	2.1	23/01/2025	7.4	1.9	23/02/2025	7.4	2.2	23/03/2025	7.2	2.7
24/10/2024	7.4	2.1	24/11/2024	7.6	2.8	24/12/2024	7.3	2.1	24/01/2025	7.5	1.6	24/02/2025	7.3	2.5	24/03/2025	7.1	1.5
25/10/2024	7.4	2.2	25/11/2024	7.3	2.1	25/12/2024	7.2	2.2	25/01/2025	7.4	2.3	25/02/2025	7.2	2.2	25/03/2025	7.1	1.8
26/10/2024	7.2	2.2	26/11/2024	7.2	2.2	26/12/2024	7.3	2.2	26/01/2025	7.5	2.4	26/02/2025	7.5	2.1	26/03/2025	7.3	1.9
27/10/2024	7.2	2.4	27/11/2024	7.5	2.3	27/12/2024	7.4	2.2	27/01/2025	7.6	2.9	27/02/2025	7.6	2.5	27/03/2025	7.2	2.2
28/10/2024	7.1	1.9	28/11/2024	7.1	2.4	28/12/2024	7.5	2.6	28/01/2025	7.7	3.1	28/02/2025	7.4	2.4	28/03/2025	7.1	2.3
29/10/2024	7.3	1.8	29/11/2024	7.4	2.6	29/12/2024	7.3	2.1	29/01/2025	7.5	2.5				29/03/2025	7.3	2.8
30/10/2024	7.5	1.6	30/11/2024	7.6	2.8	30/12/2024	7.5	2.9	30/01/2025	7.5	1.9				30/03/2025	7.2	2.3
31/10/2024	7.7	1.9				31/12/2024	7.3	2.8	31/01/2025	7.3	2.1				31/03/2025	7.4	2.5

ENVIRONMENTAL EXPENDITURE DETAILS

Particulars	FY-2024-25					
	October 24- to March 25					
Expenditure	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
	26.91	7.77	6.59	3.83	7.15	13.67
TOTAL Rs (Laes)	65.93					





Head Office (Mines)
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302 004
Phone: 0141-2716814, 2716913 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.

Signature valid

Digitally signed by Kastoor Meena
Date: 2023.01.06 12:28:00 IST
Reason: Self Attested
Location:





Head Office (Mines)

Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302 004
Phone: 0141-2716814,2716813 Fax: 0141-2716814

Registered

File No F(Mines)/Ajmer(Ajmer)/303(1)/2017-2018/5559-5563

Order No 2022-2023/Mines/10692

Date: 06/01/2023

Unit Id : 11_254

- 5 That this consent to establish/consent to operate is only for carrying out mining of mineral/ore and not for any processing/beneficiation or crushing/grinding of ore/mineral for which a separate application for consent to establish and/or consent to operate should be submitted. The project proponent is required to obtain separate consent to establish and consent to operate for carrying out mining of other minerals(s). If any or processing/beneficiation of such mineral(s) and for any addition/modification/alteration or change in process.
- 6 That this Consent to Operate is for mining / processing / beneficiation of product as mentioned above in M.L.No.-16/92 and a separate Consent to Operate is required to be obtained for any other Mineral mining/ processing/ beneficiation Plant/process if any and for any addition/ modification/ alteration or change in process.
- 7 That the occupier/operator of mine shall ensure that all the conditions imposed in the Environmental Clearance granted by MoEF&CC dated 05.02.2018.
- 8 That this consent is valid for production of Lead & Zinc Ore (ROM) @ 1.2 Million TPA Tonnes per Annum. For any change in product and/or increase in capacity/lease area, the mine has to seek fresh Environmental Clearance, consent to establish & consent to operate
- 9 That the lessee shall submit monitoring report of Ambient Air Quality within the lease area, once in 3 months
- 10 That plantation shall be developed so as to cover at least 33% of the total land use for mining and allied activities as given in Approved Mining Plan and shall be maintained at all the time to maintain ambient air quality around the mine.
- 11 That ground water shall not be abstracted without prior permission of the Central Ground Water Authority (CGWA).
- 12 That haul roads should be regularly graded and compacted. Regular water sprinkling should be carried out on haul roads to minimize dust generations
- 13 That adequate measure shall be taken for control of fugitive emissions from the areas prone to air pollution.
- 14 That you shall not operate any stone crusher/mineral grinding/mineral processing plant within said lease without obtaining prior consent of the State Board.
- 15 That this consent to Operate shall not be valid, if the lessee has not obtained permissions required, if any, from NBWL/ Forest Department etc. with respect to Wild Life Sanctuary /National Parks/ Critical Tiger Habitats in compliance of various orders passed by any other law/act/rule/ regulation or order of MoEF&CC and/or any Court/Tribunal time to time

Signature valid

Digitally signed by Rajan Chaud
Gupta
Date: 2023.01.06 12:28:09 IST
Reason: Self Attested
Location:





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

- 16 That regular water sprinkling should be carried out in critical areas prone to air pollution and having high levels of SPM and RSPM such as on haul road, loading and unloading points and transfer points.
- 17 That the mine shall install adequately designed rain water harvesting structure for prevention and recharge of ground water in and around the lease area.
- 18 That the mine shall not allow making any obstacles to any natural water flow i.e., natural nallah/stream carrying rain water to any water body.
- 19 That the mine shall not allow unauthorized disposal of any solid waste on land inside or outside the premises.
- 20 That this consent to Operate shall be subject to compliance of direction/order passed by Courts of Law in the matter, if any
- 21 That the lessee should dump the overburden in such a manner that it does not get washed away to nearby water tanks and lakes etc. during rainy season
- 22 That the lease shall not intersect the ground water table without permission of CGWA.
- 23 This consent shall be subject to validity of mining lease.
- 24 That all other general conditions enclosed as Annexure shall be strictly complied with.
- 25 That this Consent is subject to the conditions as stated above and general conditions as stated in Annexure. Further, the mining unit will comply with the provisions of the Air (Prevention & Control of Pollution) Act, 1981 & Water (Prevention & Control of Pollution) Act, 1974 and any such conditions as may be specified from time to time by the State Board under the provisions of the aforesaid Acts.
- 26 That the grant of this Consent to Operate is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the industry/ unit/ project proponent.
- 27 That the grant of this Consent to Operate shall not, in any way, adversely affect or jeopardize the legal proceedings, if any, instituted in the past or that could be instituted against you by the State Board for violation of the provisions of the Act or the Rules made thereunder.

Signature valid


Digitally signed by **Manish Chandra Gupta**
Date: 2023.01.06 12:05:09 IST
Reason: Self Attested
Location:





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

25 That the grant of this consent to establish/operate is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other legal instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the industry/unit/project proponent.

This bears approval of the competent authority.

End: As Above

Yours sincerely,

Group Incharge-Mines

(A): Copy To:-

- 1 Director, Department of Mines & Geology, Government of Rajasthan, Shastri Circle, Udaipur.
- 2 Regional Officer, Regional Office, Rajasthan State Pollution Control Board, Kishangarh-please ensure compliance of the consent conditions and monitor time to time
- 3 Mining Engineer, Department of Mines & Geology, Government of Rajasthan, Ajmer -To inform that this consent has been issued from the environmental angle only, and ensuring compliance of any other law/act/rule/regulation or order of any Court /Tribunal is the sole responsibility of the project proponent and the concerned departments
- 4 Master File.

(B):

- 1 The Additional PCCF (WL) and Chief Wildlife Warden, Aranya Sheren, Jhalana Institutional Area, Jaipur(DCF(WL),Ajmer, To inform that this consent has been issued from the environmental angle only, and ensuring compliance of any other law/act/rule/regulation or order of any Court/Tribunal is the sole responsibility of the project proponent and the concerned departments

Group Incharge-Mines

Signature valid

Digitally signed by Anurag Chandra
Gupta
Date: 2023.01.06 12:08:09 IST
Reason: Self Approved
Location:



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



redanta HCLCRA, INC.

A. डोम का रंग & पद		शिवान सिंह लिमिटेड कावा हान इन्फो, ASSAM					
कमलक अविश्व से सभाने के लिमिटेड जवन का रंग		जंगलक डोम					
B. डोमक सामानो का विवरण:							
सा	रंग	मल	मल	मल	मल	मल	मल
-	-	-	-	-	-	-	-
डोमक रंग विवरण:							
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-	-	-	-	-	-	-	-

रंग	SPM	PM10	PM2.5	SO ₂	NO _x	CO	रंग
रंग	203.05	70.85	35.45	4.20	13.08	385	रंग
रंग	209.72	84.38	33.38	4.05	12.87	365	
रंग	186.49	77.86	38.38	4.30	17.44	325	

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

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. 1517,
Golf Course Ext. Road, Sector - 41, Gurugram (Haryana) - 122 011
E-mail: jmenviron@hotmail.com
NABL Approved Lab: JM EnviroLab Pvt. Ltd.
(Certificate No.: TC-4821)



HINDUSTAN ZINC
Zinc & Silver of India

Ref: HZL/KYD/ENV/2024-2025/109

September 14, 2024

Member secretary
Raj. Pollution Control Board
4, Institutional Area
Jhalan Doongri
JAIPUR

Sub : Environment Statement of Kayad Mine for year 2023-24

Ref: Env clearance vide No. : J-110115/47/2012-IA.II (M) dated 5th Feb, 2018
CTO granted vide No.: F(Mines)/Ajmer (Ajmer)/303(1)/2017-2018/5559-5563
dated 06/01/2023

Dear Sir/Madam,

Please find enclosed herewith the environmental statement for financial year ending on 31st March 2024.

Thanking you

Yours truly,


(Nirmalendu Kumar)
Director SBU (Kayad Mine)

cc to: Regional Officer

: for kind information please

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 & Climate Changes,
Integrated Regional Office, A-209&218, Aranya Bhawan,
Jhalana Institutional area Jaipur-302004

OLC Ena





भारत सरकार
जल प्रशिक्षण बोर्ड
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 निकाली 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:		Kayar		Block		Srinagar						
District:		Ajmer		State:		Rajasthan						
Pin Code:												
Communication Address:		Hindustan Zinc Limited, Kayar Mine., Po Kayar, 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 Requirement				6.	NOC Type:	Renewal				
7.	Valid from:	10/10/2022				8.	Valid up to:	08/10/2026(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				
0.00		0.00				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 ^a	0	0	0	0	0	1	0	0	0	0	0	3
^a 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.):							1707326.00					
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	

18/11, जवाहर नगर हाउस, पानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jawahar House, Mansingh Road, New Delhi-110011

Phone: (011) 25583561 Fax: 25583651, 25586743

Website: cgwa-noc.gov.in

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Validity of the 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 installation 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 12 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, CGWA 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 extracting ground water in excess of 100 m³/d shall undertake annual water audit through certified auditor 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 10% over the next three years through appropriate means.
- 9) Application for renewal can be submitted online from 30 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/notifications 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 premise falling within 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 (reforestation) shall be met from recycled / treated waste water.
- 17) Wherever the NOC is for abstraction of saline water and the existing well (s) is / are yielding fresh water, the same shall be sealed and new tube well(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 30 days of taking over possession of the premises.
- 23) This NOC is being issued without any prejudice to the directions of the Hon'ble MTT/ 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 avoided release of upto 10% (ten percent) in the ground water abstraction charges/ground water reduction 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/Petrochemicals, Coal washeries, phymyocuticals, other hazardous units etc. (as per CPCRI 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 10 mld, the firm/ entity shall ensure implementation of dual water supply system in the projects.
- 27) In case of infrastructure projects, peedepersing 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 27.03.2017 failing which penalty/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 have been constituted (NOC/ 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-III of guidelines dated 24.06.2016 in respect of abandoned / failed bore(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.)

18/11, जयनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jawanagar House, Mansingh Road, New Delhi-110011

Phone: (011) 23383561 Fax: 23383651, 23386745

Website: cgwa-noc.gov.in

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

Receipt

(As per the guideline (Gazette Notification S.O. 3281(3) regarding the New Guidelines dated 14.09.2020 of CGWA, MoJS, Govt. of India)
<http://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.

18/11, जामनगर हाउस, पानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011
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Website: cgwa-noc.gov.in

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Confidential

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



REPORT ON

[STUDY PERIOD 1st OCTOBER, 2024 to 31st MARCH, 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

MAY 2025



Introduction

Executive (Commercial), Hindustan Zinc Limited approached the Director, CSIR-Central Institute of Mining and Fuel Research, Dhanbad, vide PO No.:577274 / 4500008071 dated 12.02.2024 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 Group (Erstwhile the Blasting Department) of CSIR-CIMFR conducted an extensive series of 524 blasts across various locations for slot raises and ring operations over six months i.e., from 1st October, 2024 to 31st March, 2025. These blasting activities were performed at multiple stopes locations, including S1_OD1, S300Access, N150 FWD UH, 310 PILLAR 560, 310 PILLAR 365, N300 PILLAR 205, E 1950 HW, N375 UH, E2030 FW, E 2000 HW, PILLAR 495, N 350-325, E 2000 FW, E 1970 HW, S 300-275 etc.

Attempts were made to record 1048 ground vibration data out of which 155 ground vibration data were recorded. The instrument has not triggered for 893 instances of ground vibration. In this case, the vibration level was below the pre-set 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 near the Kayad village. The monitoring locations include the administrative block, VTC centre, Mine gate, and Near Mr. Sultan House. The radial distances of the blast vibration monitoring point from the blasting face ranged from 227 m to 1396 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 October 1, 2024, to March 31, 2025.

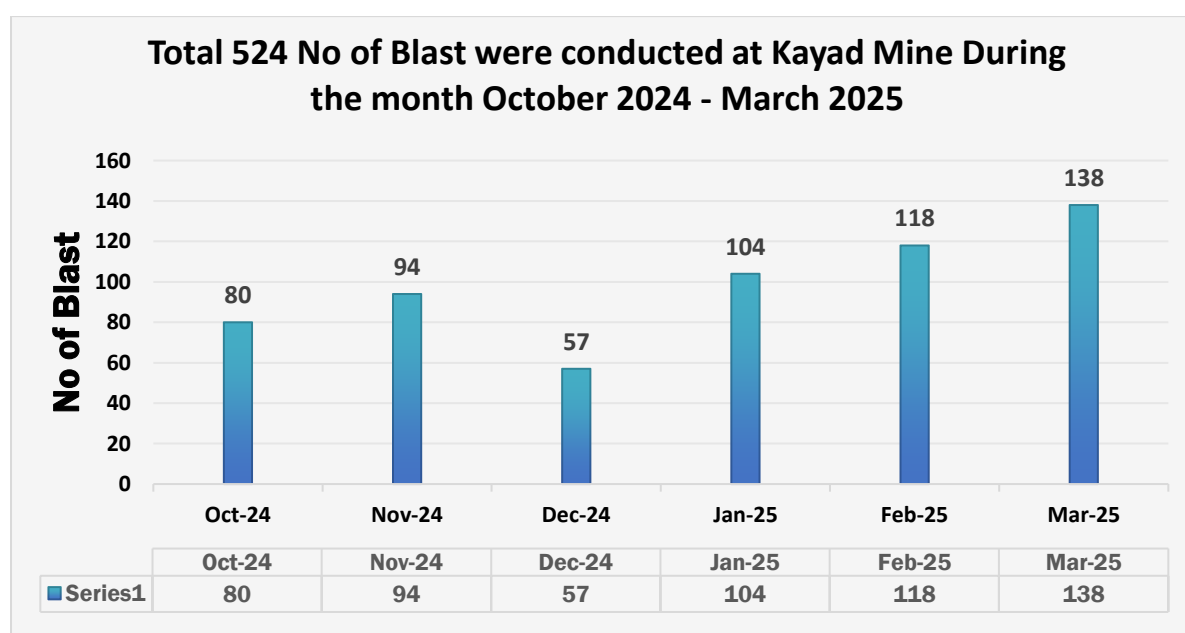


Figure 1. No. of blasts conducted at Kayad UG mine, HZL from 01.10.2024 to 31.03.2025.



Instrumentations

Blast induced vibrations were monitored by seismographs namely MiniMate Plus and MiniMate Blaster (Made in Canada by M/s InstanTel Inc.). 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). MiniMate Blaster is four channel seismographs provided with one tri-axial transducer for monitoring vibration (in mm/s) and one channel for monitoring of 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.

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

Blast vibration monitoring locations were finalized in consultation with the mine officials. Seismographs were placed at two to three locations. 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, CRF Plant, and mine gate of Kayad Mine. The maximum vibration recorded was 9.505 mm/s with a dominant peak frequency of 40 Hz at Mine Boundary near Mr Sultan House of Kayad Mine. In the same blast vibration recorded at the Administrative Block near of Kayad mine was less than 0.5 mm/s. The blast wave recorded at the admin building of Kayad mine due to the blast conducted at the N/300 stope on 10.10.2024

(PPV- 4.67 mm/s) is presented in Figure 2. The Fast Fourier Transform (FFT) analyses of the frequency of vibration (as mentioned in Figure 2) is shown in Figure 3. The blast wave recorded on 17.12.2024 (PPV – 4.83 mm/s) at 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) analyses of frequency of vibration is presented in Figure 5. It is evident from the figures that the concentration of vibration energy was lie in the range of 25 – 91.88 Hz i.e. in high frequency zone (>25 Hz).

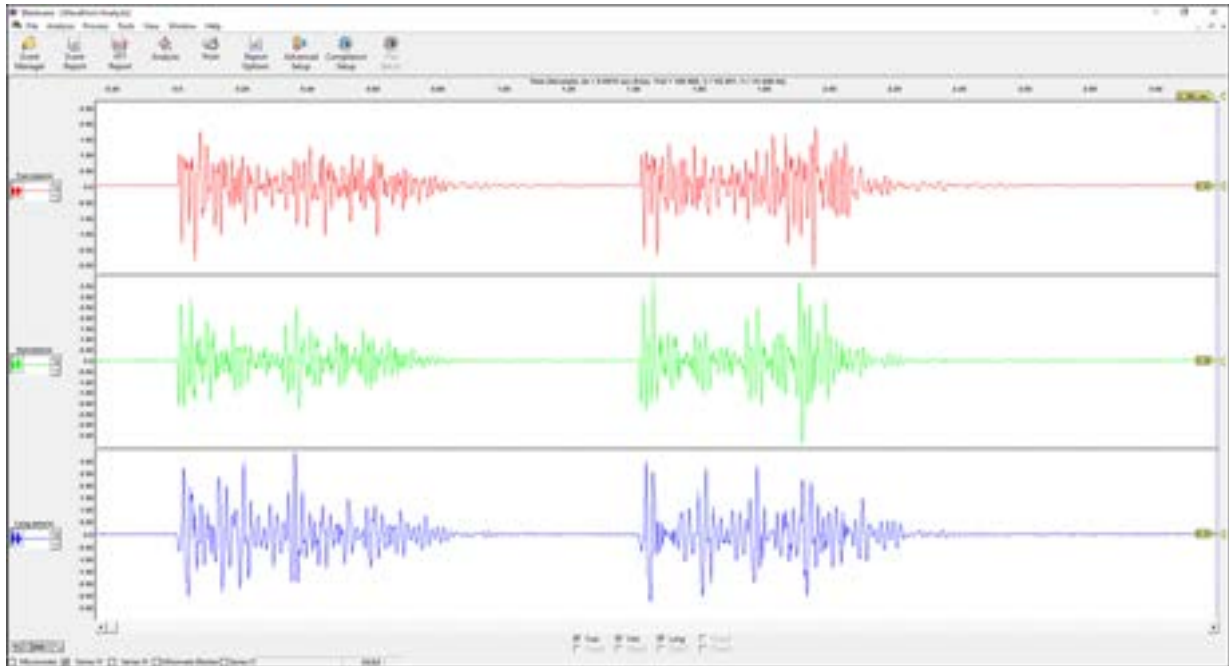


Figure 2. Blast time history recorded on 10.10.2024 at the admin building of Kayad Mine.

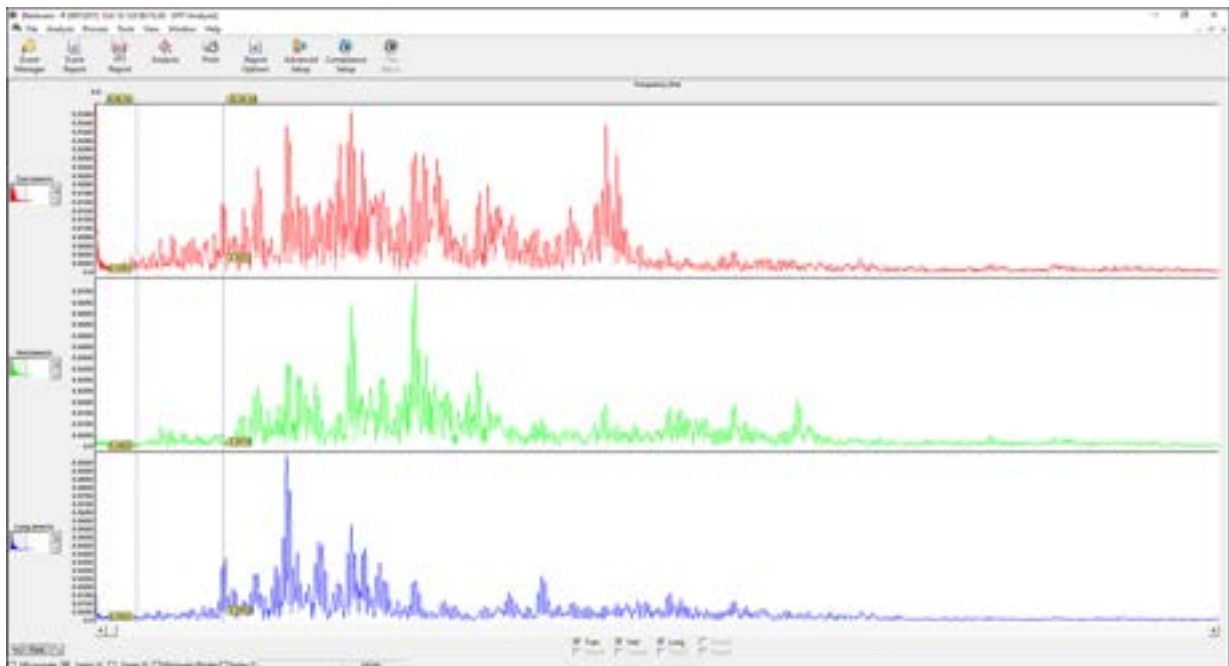


Figure 3. The FFT analyses of the frequency of vibration (as mentioned in Figure 2).

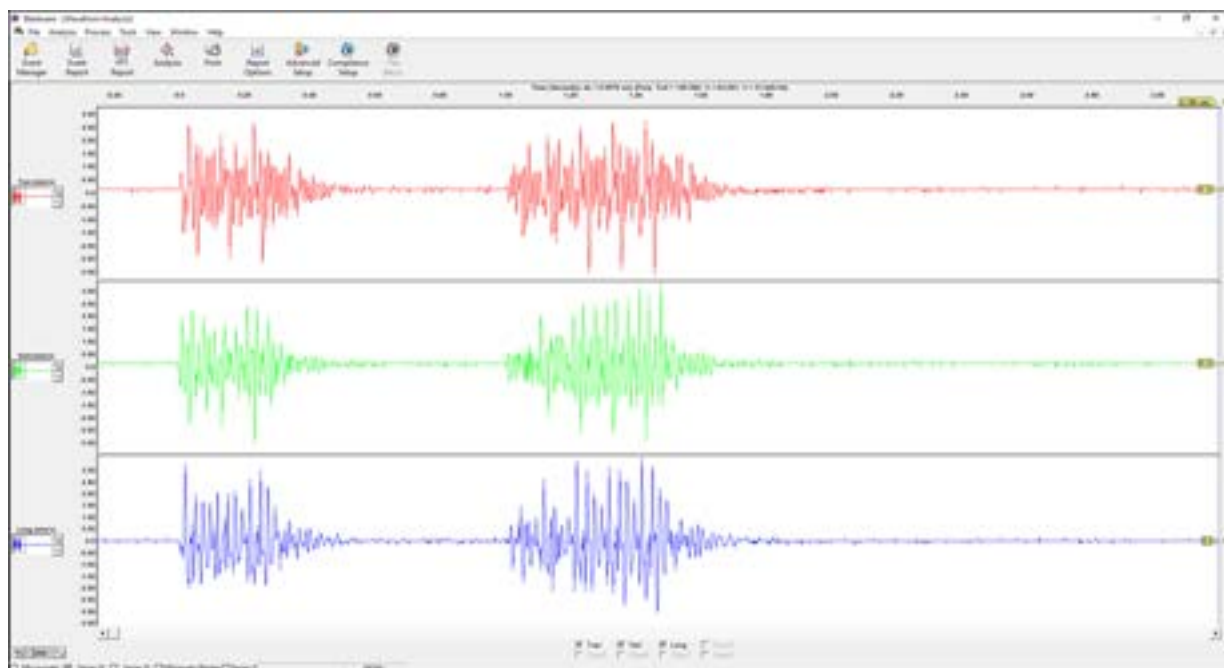


Figure 4. Blast time history recorded on 17.12.2024 at Mine Boundary Near Sultan House.

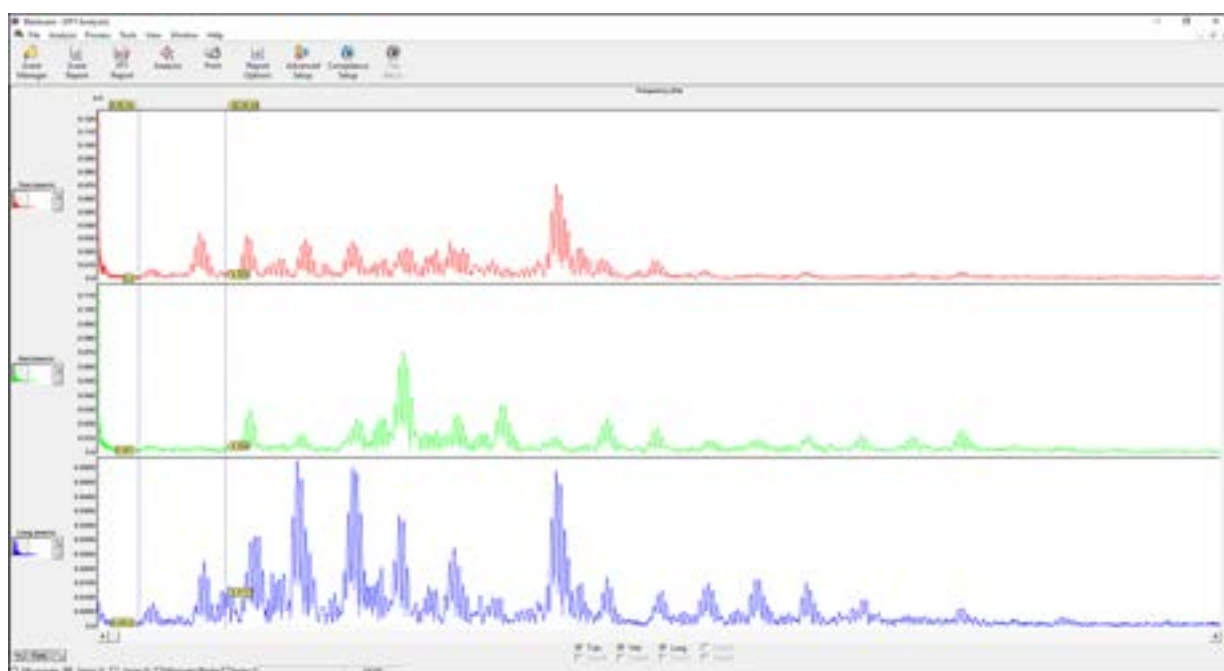


Figure 5. The FFT analyses of frequency of vibration (as mention in Figure 4).

The vibration data recorded due to the blast conducted at Kayad UG Mine during October 01, 2024- March 31, 2025 were analysed. The recorded peak particle velocity (PPV) data were in the range of 0.57 mm/s to 9.505 mm/s. The threshold velocity of vibration as per the DGMS standard is 15 mm/s for Kayad UG Mine, considering most of 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.

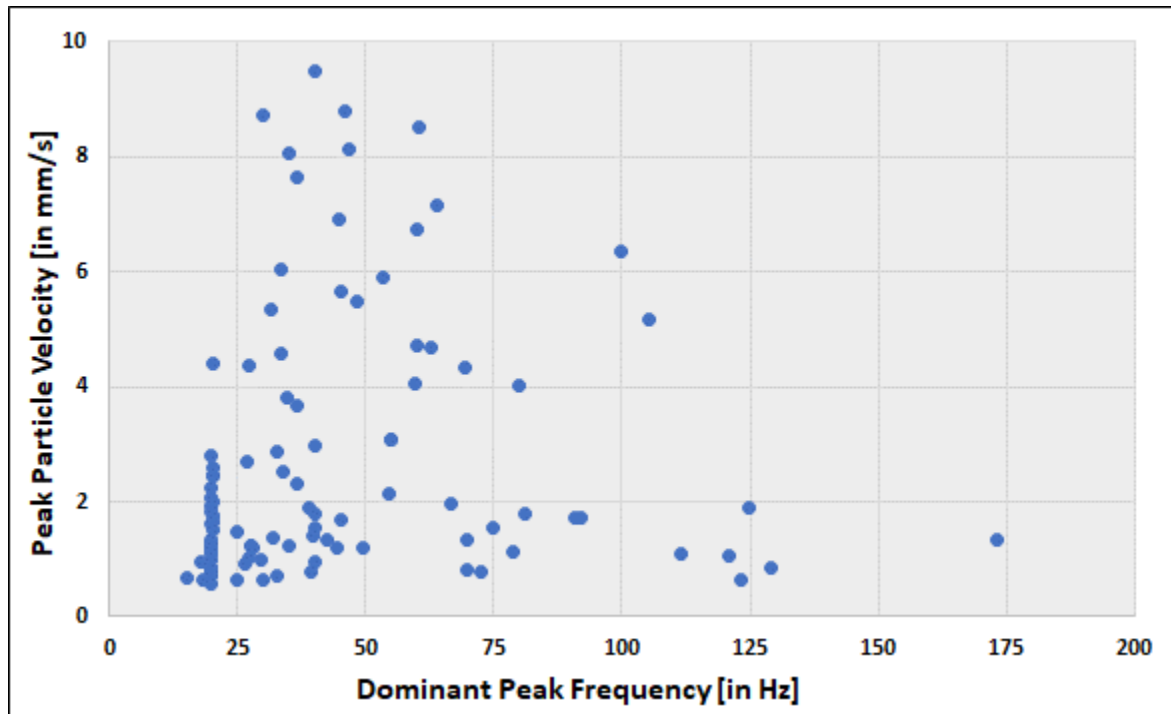


Figure 6. Blast vibration data recorded vibration in the periphery of Kayad UG Mine.



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



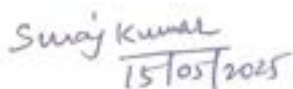
researchers recognised that the duration of the vibration was critical. Most evident was that a higher level could be tolerated if the event was short. Consequently, steady state vibration data could not be realistically applied to blasting except for events that exceed sixty seconds duration. The mine management must convince the nearby house owners that the rattling is to be expected but it may not be damaging.

Conclusions and recommendations

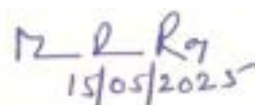
- ❖ Altogether, 524 blasts were conducted for underground slot raise and Ring blasts at different locations of the mine during October 01, 2024 - March 31, 2025. Attempts were made to record 1048 vibration data, out of which 893 vibration data were below the pre-trigger level of the seismograph i.e., 0.5 mm/s.
- ❖ The recorded blast-induced ground vibration data were in the range of 0.57 mm/s to 9.505 mm/s. The radial distances of blast vibration monitoring point from the blasting face were in the range 227 to 1396 m.
- ❖ The maximum vibration recorded was 9.505 mm/s with dominant peak frequency of 40 Hz near Sultan House of Kayad Mine. In the same blast vibration recorded at the Mine Near Admin Block of Kayad mine was less than 0.5 mm/s.
- ❖ The recorded dominant peak frequencies of vibration were in the range of 15.22 - 173.1 Hz. The Fast Fourier Transform (FFT) analysis of ground vibration data shows that the most of the dominant frequencies were in the range of 25 to 91.88 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.

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15/05/2025

(Suraj Kumar)
Sr. Technical Officer
Rock Excavation Engineering Division


15/05/2025

Chief Scientist & Project Leader
Rock Excavation Engineering Division

❑ 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.

