

SPEED POST

Ref : HZL/Kayad/ENV/MOEF/2024-25/142

November 23, 2024

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

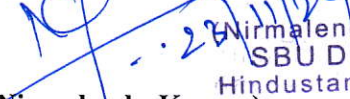
Sub: Six monthly environmental compliance report from April 2024 to September 2024 .**Ref : Env clearance vide No. : J-110115/47/2012-IA.II (M) dated 5th Feb, 2018.**

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 **April 2024 to September 2024**. is for your kind perusal. Soft copy of compliance is also mailed and uploaded in the website.

Thanking you,

Yours faithfully


(Nirmalendu Kumar)
SBU Director
Hindustan Zinc Ltd.
Kayad Mine-305023
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 2023 to March 2024

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-XIX 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-X . 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 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 Species and also increase the budget for plantation/green development. The Proponent shall implement the Wildlife Conservation Plan along with the funds so allocated with consultation of Chief Wild Life Warden of the State Govt. A copy of action plan shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office, Lucknow and the Chief Wild Life Warden of the State Govt.	<p>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.</p> <p>Action plan along with its implementation status report being submitted to RO MOEF & CC & Chief wild life warden of State Government.</p>
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.	<p>The Implementation of CIMFR study report is being ensured.</p> <ul style="list-style-type: none"> • 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 MoEFCC 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 wi be

		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 & NOC renewal application submitted online through NOCAP portal. 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.V. Envionet Pvt. Ltd. and Report submitted vide letter no HZL/Kayad/Enc/MoEF/22-23/94 dated 23 /11/2023 Annexure -X.
8.	The critical parameters as per the Notification 2009 such as Pm ₁₀ , PM 2.5 NO _x 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 PM ₁₀ , PM 2.5, NO _x 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, NO _x 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	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

	carried out based on the Notification 2009, as amended from time to time 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- X . Effective sprinkling system shall be in place to suppress fugitive dust on haul road. Belt-conveyor at CRF shall be 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 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 earmarked location of 9000 CuM so in 64500 M and developed a beautiful garden on it. All the waste utilized in the mine void refilling. No such OB Dumps
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 collected used for dust suppression in mine area, roads, green belt development, recharge etc . The drains and

	<p>pit and over burden dumps to prevent run off of water and flow of 'sediments directly into the river and other Water bodies and sump capacity should be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt Material. Sedimentation pits shall be constructed at the corners of the garland drains and desilted at regular intervals.</p>	<p>settling pond are being regularly de-silted and maintained properly.</p>
22.	<p>Plantation shall be raised in a 7.5m wide green belt in the safety zone around the mining lease, backfilled and reclaimed area, around water body, along the roads etc. by planting the native species in consultation with the local DFO/Agriculture Department and as per CPCB Guidelines. The density of the trees should be around 2500 plants per ha. Greenbelt shall be developed all along the mine lease area in a phased manner and shall be completed within first five years.</p>	<p>Plantation has been raised around boundary of acquired area along the road etc. and included the native species. More than 33% Greenbelt has been developed in mine area. Annexure -XVI</p>
23.	<p>Project Proponent shall follow the mitigation measures provided in Office Memorandum No. 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.</p>	<p>Being ensured</p>
24.	<p>The Project Proponent shall make necessary alternative arrangements, where required, in consultation with the State Government to provide alternate areas for livestock grazing, if any. In this context, Project Proponent should implement the directions of the Hon'ble Supreme Court with regard to acquiring grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded against felling and plantation of such trees should be promoted.</p>	<p>Ensured</p>
25.	<p>The project proponent shall take 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.</p>	<p>A nursery has been developed within mine area for rare plant's species and other medicinal plants. Same being included in yearly plantation program to improve their existence.</p>
26.	<p>As per the Company Act, the CSR cost should be 2 % of average net profit of last three years. Hence CSR expenses should be as per the Company Act/Rule for the Socio Economic Development of the neighborhood Habitats which could be planned and ,executed by the Project Proponent more systematically based on the 'Need based door to door survey' by established Social Institutes/Workers. The report shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office on six monthly bases.</p>	<p>The baseline needs assessment Survey completed and submitted. Various community development/ engagement activity carried out on regular basis. Annexure -XX.</p>
27.	<p>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</p>	<p>The facilities are provided like Canteen, Toilets, STP (Annexure XII), and safe drinking water and a</p>

	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 S&D 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 April 2024 to September 2024 has been incurred Rs 54.50 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 -XIX
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

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.
- 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.

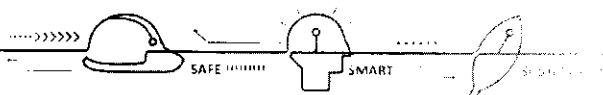
Responsibility & Review

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, Tailing Management Policy.

Date: 1st September, 2023


Arun Misra
CEO & Whole Time Director, HZL



Annexure Table

S.NO	Description	Annexure No.
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HINDUSTAN ZINC LIMITED
KAYAD MINE

Annexure-I

AMBIENT AIR MONITORING

Location->		Near Sub Station										Near CRF										Near ANFO									
		Parameter	SPM	PM ₁₀	PM2.5	SO ₂	NO _x	CO	SPM	PM ₁₀	PM2.5	SO ₂	NO _x	CO	SPM	PM ₁₀	PM2.5	SO ₂	NO _x	CO											
Month-Year	Limit		500 µg/m3	100 µg/m3	60 µg/m3	80 µg/m3	80 µg/m3	4000 µg/m3	500 µg/m3	100 µg/m3	60 µg/m3	80 µg/m3	80 µg/m3	4000 µg/m3	500 µg/m3	100 µg/m3	60 µg/m3	80 µg/m3	80 µg/m3	4000 µg/m3											
Apr-24	1st Fortnight	149.17	149.17	75.93	30.89	6.40	15.70	340.00	137.60	66.00	34.52	6.57	14.43	380.00	160.52	76.96	34.38	6.62	14.30	360.00											
	1ind Fortnight	137.20	137.20	73.13	33.53	6.87	14.85	370.00	136.66	70.71	36.71	6.70	14.15	310.00	142.49	71.28	31.88	6.77	14.62	340.00											
May-24	1st Fortnight	146.52	146.52	77.48	32.72	6.19	14.57	410.00	135.75	75.19	35.50	6.45	14.32	390.00	148.64	79.23	30.10	6.07	14.06	360.00											
	1ind Fortnight	137.20	137.20	73.13	33.53	6.87	14.85	370.00	147.16	78.23	30.19	6.81	14.59	340.00	132.39	69.46	32.80	6.87	15.19	360.00											
Jun-24	1st Fortnight	149.52	149.52	75.55	35.71	6.59	14.07	340.00	138.43	72.08	38.92	6.90	14.97	360.00	153.02	78.50	39.90	6.86	14.73	310.00											
	1ind Fortnight	135.46	135.46	25.14	69.76	6.49	14.40	310.00	120.10	64.87	29.09	6.30	14.99	280.00	133.85	72.69	29.56	6.85	14.89	330.00											
Jul-24	1st Fortnight	114.27	114.27	57.40	23.03	6.20	10.70	260.00	112.17	50.37	28.50	6.57	11.33	280.00	117.71	52.48	26.81	6.56	15.40	380.00											
	1ind Fortnight	138.38	138.38	63.97	29.72	6.72	14.84	370.00	118.03	60.66	27.74	6.54	14.38	360.00	128.77	65.80	30.22	6.19	14.54	330.00											
Aug-24	1st Fortnight	92.76	92.76	39.14	16.75	6.85	12.05	160.00	98.21	46.38	18.68	6.05	13.75	190.00	87.45	41.29	19.75	6.43	14.26	210.00											
	1ind Fortnight	94.32	94.32	51.54	23.39	7.62	14.76	240.00	95.36	53.42	20.35	6.59	14.87	210.00	98.19	50.76	23.90	6.48	14.36	230.00											
Sep-24	1st Fortnight	98.28	98.28	48.90	24.58	6.75	14.73	220.00	85.81	43.73	26.89	6.99	14.87	210.00	92.21	55.25	22.84	6.86	14.05	230.00											
	1ind Fortnight	114.06	114.06	79.94	34.63	6.93	14.28	320.00	146.92	78.09	37.29	6.55	14.13	260.00	140.61	77.61	34.86	7.06	14.73	340.00											

Location->	Parameter	Kayar						Lohagal						Gagwana					
		SPM	PM ₁₀	PM2.5	SO ₂	NO _x	CO	SPM	PM ₁₀	PM2.5	SO ₂	NO _x	CO	SPM	PM ₁₀	PM2.5	SO ₂	NO _x	CO
Month-Year	Limit	500 µg/m3	100 µg/m3	60 µg/m3	80 µg/m3	80 µg/m3	4000 µg/m3	500 µg/m3	100 µg/m3	60 µg/m3	80 µg/m3	80 µg/m3	4000 µg/m3	500 µg/m3	100 µg/m3	60 µg/m3	80 µg/m3	80 µg/m3	4000 µg/m3
	1st Fortnight	140.52	26.28	26.28	6.99	14.07	370.00	126.42	75.78	32.84	6.90	14.03	280.00	121.30	74.84	27.28	7.88	14.74	240.00
Apr-24	1ind Fortnight	124.54	66.07	27.50	5.67	12.79	270.00	119.46	63.27	28.79	5.89	13.94	290.00	143.56	73.34	25.24	5.77	14.54	260.00
	1st Fortnight	124.52	71.07	28.87	5.60	13.21	260.00	132.02	75.88	30.06	5.69	13.50	290.00	122.85	66.48	28.97	5.28	13.70	280.00
May-24	1ind Fortnight	128.66	59.02	31.72	5.68	13.85	270.00	120.75	66.15	26.75	5.61	12.83	260.00	147.06	76.70	28.81	5.60	13.66	280.00
	1st Fortnight	127.78	67.20	29.06	5.16	13.06	270.00	128.39	58.95	24.41	5.50	13.81	280.00	112.47	62.88	27.57	5.54	13.83	290.00
Jun-24	1ind Fortnight	127.17	61.93	27.94	6.00	14.03	270.00	126.75	70.97	25.93	5.11	1304.00	260.00	125.66	67.34	28.84	5.41	13.79	250.00
	1st Fortnight	96.18	45.94	21.64	6.00	13.58	180.00	73.73	40.79	20.66	6.00	12.31	180.00	83.41	38.29	23.02	6.00	13.41	170.00
Jun-24	1ind Fortnight	106.15	55.24	25.23	6.00	13.99	280.00	105.37	63.46	27.90	6.00	13.23	250.00	105.68	51.32	25.80	6.00	13.32	270.00
	1st Fortnight	72.10	38.76	17.60	6.00	10.55	150.00	91.89	39.91	17.24	6.00	10.00	180.00	71.50	33.49	14.69	6.00	12.88	170.00
Aug-24	1ind Fortnight	90.91	45.01	17.26	6.03	13.61	170.00	89.69	43.92	20.17	6.00	12.26	160.00	97.42	47.34	20.90	6.00	13.28	190.00
	1st Fortnight	103.68	56.84	22.86	6.00	13.05	170.00	87.54	51.37	17.90	6.00	13.98	160.00	89.90	42.63	22.49	6.00	13.57	180.00
Sep-24	1ind Fortnight	112.67	60.61	20.25	6.00	13.53	190.00	124.16	63.67	24.86	6.00	13.77	210.00	118.87	64.21	25.74	6.00	13.63	230.00

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TEST REPORT

Report No./ULR No. :	24400000694	Date :	25-04-2024
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 :	09-04-2024
Point of Collection	Near Sub Station	Date of Receipt :	15-04-2024
Date of Test/Analysis :	15-04-2024 to 25-04-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan 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	Carbon Monoxide [microgram/m3]	340	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	15.7	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	149.17	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	30.89	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	6.4	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	75.93	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :

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Puran Mar Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: 24400000694)



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Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	10-04-2024
Point of Collection :	Near Sub Station	Date of Receipt :	22-04-2024
Date of Test/Analysis :	22-04-2024 to 25-04-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan 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	Lead [microgram/m3]	0.15	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
3	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) :1974	100.00
4	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
5	Nickel [ng/m3]	7.8	TTH/AAQM/09	20.00

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Point of Collection :	Near Sub Station	Date of Receipt :	22-04-2024
Date of Test/Analysis :	22-04-2024 to 25-04-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan 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
6	Benzene [microgram/m3]	BDL(<1.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
7	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00

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Report No./ULR No. :	24400000695	Date :	25-04-2024
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 :	11-04-2024
Point of Collection :	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Receipt :	15-04-2024
Date of Test/Analysis :	15-04-2024 to 25-04-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan 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	Carbon Monoxide [microgram/m3]	370	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	14.07	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	140.52	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	26.28	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	6.99	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	65.18	IS 5182 (Part 23)-2006 RA 2017	100.00

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Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	11-04-2024
Point of Collection :	Kayad Village [26°31'44."N, 74°41'16.5"E]	Date of Receipt :	22-04-2024
Date of Test/Analysis :	22-04-2024 to 25-04-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan 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	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
3	Lead [microgram/m3]	0.12	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nickel [ng/m3]	3.9	TTH/AAQM/09	20.00
5	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) :1974	100.00

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Point of Collection :	Kayad Village [26°31'44."N, 74°41'16.5"E]	Date of Receipt :	22-04-2024
Date of Test/Analysis :	22-04-2024 to 25-04-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan 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
6	Benzene [microgram/m3]	BDL(<1.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
7	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00

Notes -

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Rajesh Maheshwari
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(Report No: 400000695..)



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Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	09-04-2024
Point of Collection	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	15-04-2024
Date of Test/Analysis :	15-04-2024 to 25-04-2024	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	Carbon Monoxide [microgram/m3]	280	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	14.03	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	126.42	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	32.84	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	6.9	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	75.78	IS 5182 (Part 23)-2006 RA 2017	100.00

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Puran Maheshwari

Senior Analyst

Rajesh Maheshwari
Authorized Signatory

(Report No: 24400000696)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	24400000696..	Date :	25-04-2024
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 :	09-04-2024
Point of Collection :	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	22-04-2024
Date of Test/Analysis :	22-04-2024 to 25-04-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan 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	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
3	Lead [microgram/m3]	0.12	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nickel [ng/m3]	8	TTH/AAQM/09	20.00
5	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) :1974	100.00

Notes :-

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Puran Majhi
Senior Analyst

Rakesh Meherwar
(Report No: 24400000696..)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	400000696..	Date :	25-04-2024
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 :	09-04-2024
Point of Collection :	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	22-04-2024
Date of Test/Analysis :	22-04-2024 to 25-04-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan 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
6	Benzene [microgram/m3]	BDL(<1.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
7	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00

Notes :-

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Puran/Mar Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 400000696..)



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TEST REPORT

Report No./ULR No. :	24400000697	Date :	25-04-2024
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 :	09-04-2024
Point of Collection :	Gagwana Village [26°31'44.4"N. 74°43'20.1"E]	Date of Receipt :	15-04-2024
Date of Test/Analysis :	15-04-2024 to 25-04-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan 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	Carbon Monoxide [microgram/m3]	240	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	14.74	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	121.3	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	27.28	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	7.88	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	74.84	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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uran Mai Yogi
Senior Analyst

Rajesh Manojkumar
Authorized Signatory
(Report No: 24400000697)



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TEST REPORT

Report No./ULR No. :	24400000697..	Date :	25-04-2024
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 :	09-04-2024
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	22-04-2024
Date of Test/Analysis :	22-04-2024 to 25-04-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan 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	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
3	Lead [microgram/m3]	0.16	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nickel [ng/m3]	3.3	TTH/AAQM/09	20.00
5	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) :1974	100.00

Notes :

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Puran Mai Yodai
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 24400000697..)



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TEST REPORT

Report No./ULR No. :	400000697..	Date :	25-04-2024
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 :	09-04-2024
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	22-04-2024
Date of Test/Analysis :	22-04-2024 to 25-04-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan 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
6	Benzene [microgram/m3]	BDL(<1.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
7	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00

Notes :-

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Puran Malviya
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 400000697..)



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TEST REPORT

Report No./ULR No.	24400000698	Date :	25-04-2024
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 :	10-04-2024
Point of Collection	Near CRF	Date of Receipt :	15-04-2024
Date of Test/Analysis :	15-04-2024 to 25-04-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan 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	Carbon Monoxide [microgram/m3]	380	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	14.43	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	137.6	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	34.52	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	6.57	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	66	IS 5182 (Part 23)-2006 RA 2017	100.00

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Puran Mai Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 24400000698)



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TEST REPORT

Report No./ULR No. :	24400000698..	Date :	25-04-2024
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 :	10-04-2024
Point of Collection :	Near CRF	Date of Receipt :	22-04-2024
Date of Test/Analysis :	22-04-2024 to 25-04-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Ashwani kumar Joshi
Unit's representative :	Mr Prakash 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	Lead [microgram/m3]	0.14	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
3	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) :1974	100.00
4	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
5	Nickel [ng/m3]	9	TTH/AAQM/09	20.00

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Puran Marwadi

Senior Analyst

Rajesh Maheshwari
Authorized Signatory

(Report No: 24400000698..)



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TEST REPORT

Report No./ULR No. :	400000698..	Date :	25-04-2024
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 :	10-04-2024
Point of Collection :	Near CRF	Date of Receipt :	22-04-2024
Date of Test/Analysis :	22-04-2024 to 25-04-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Ashwani kumar Joshi
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
6	Benzene [microgram/m3]	BDL(<1.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
7	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00

Notes :-

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Puran Mai Yogi
Senior Analyst

Rajesh Mathur
(Report No: 400000698..)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	24400000735..	Date :	25-04-2024
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 :	10-04-2024
Point of Collection :	Near ANFO Station	Date of Receipt :	20-04-2024
Date of Test/Analysis :	20-04-2024 to 25-04-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan 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	Carbon Monoxide [microgram/m3]	360	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	14.3	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	160.62	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	34.38	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	6.62	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	76.96	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Puran Mai
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 24400000735..)



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TEST REPORT

Report No./ULR No. :	24400000735	Date :	25-04-2024
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 :	10-04-2024
Point of Collection :	Near ANFO Station	Date of Receipt :	20-04-2024
Date of Test/Analysis :	20-04-2024 to 25-04-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	—	Sample Collected By :	kishan 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	Lead [microgram/m3]	0.15	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
3	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) :1974	100.00
4	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
5	Nickel [ng/m3]	6.4	TTH/AAQM/09	20.00

Notes :-

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Puran Mar Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 24400000735)



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TEST REPORT

Report No./ULR No. :	400000735	Date :	25-04-2024
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 :	10-04-2024
Point of Collection :	Near ANFO Station	Date of Receipt :	20-04-2024
Date of Test/Analysis :	20-04-2024 to 25-04-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	--	Sample Collected By :	Kishan 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
6	Benzene [microgram/m3]	BDL(<1.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
7	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00

Notes -

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Puran Maiyagi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 400000735)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	24400000780.	Date :	06-05-2024
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 :	29-04-2024 15:35 to 30-04-2024 15:35
Point of Collection	Near Sub Station	Date of Receipt :	01-05-2024
Date of Test/Analysis :	01-05-2024 to 06-05-2024	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

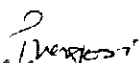
RESULTS

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	Lead [microgram/m3]	0.15	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
3	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) :1974	100.00
4	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
5	Nickel [ng/m3]	9.1	TTH/AAQM/09	20.00

Notes :-

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Senior Analyst


Authorized Signatory
(Report No: 24400000780.)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

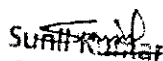
Report No./ULR No. :	400000780.	Date :	06-05-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	29-04-2024 15:35 to 30-04-2024 15:35
Point of Collection :	Near Sub Station	Date of Receipt :	01-05-2024
Date of Test/Analysis :	01-05-2024 to 06-05-2024	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

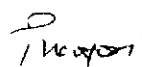
RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
6	Benzene [microgram/m3]	BDL(<1.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
7	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00

Notes -

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Sunil Kumar
Senior Analyst


P. K. Singh
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TEST REPORT

Report No./ULR No. :	24400000781	Date :	06-05-2024
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 :	29-04-2024 15:37 to 30-04-2024 15:37
Point of Collection :	Near CRF	Date of Receipt :	01-05-2024
Date of Test/Analysis :	01-05-2024 to 06-05-2024	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	Carbon Monoxide [microgram/m3]	310	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	14.15	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	136.66	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	36.71	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	6.7	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	70.71	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst


Authorized Signatory
(Report No: 24400000781)



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TEST REPORT

Report No./ULR No. :	24400000781.	Date :	06-05-2024
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 :	29-04-2024 15:38 to 30-04-2024 15:38
Point of Collection :	Near CRF	Date of Receipt :	01-05-2024
Date of Test/Analysis :	01-05-2024 to 06-05-2024	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	Lead [microgram/m3]	0.19	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
3	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) :1974	100.00
4	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
5	Nickel [ng/m3]	11.3	TTH/AAQM/09	20.00

Notes :-

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Senior Analyst

Authorized Signatory
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TEST REPORT

Report No./ULR No. :	400000781.	Date :	06-05-2024
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 :	29-04-2024 15:38 to 30-04-2024 15:38
Point of Collection	Near CRF	Date of Receipt :	01-05-2024
Date of Test/Analysis :	01-05-2024 to 06-05-2024	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

Sl. No.	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
5	Benzene [microgram/m3]	BDL(<1.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
7	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: 400000781.)



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TEST REPORT

Report No./ULR No. :	24400000782	Date :	06-05-2024
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 :	29-04-2024 15:40 to 30-04-2024 15:40
Point of Collection :	Near ANFO Station	Date of Receipt :	01-05-2024
Date of Test/Analysis :	01-05-2024 to 06-05-2024	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

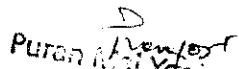
RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	340	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	14.62	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	142.49	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	31.88	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	6.77	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	71.28	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Sunil Kumar
Senior Analyst


Purnima Yogi
Authorized Signatory
(Report No: 24400000782)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	24400000782.	Date :	06-05-2024
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 :	29-04-2024 15:42 to 30-04-2024 15:42
Point of Collection :	Near ANFO Station	Date of Receipt :	01-05-2024
Date of Test/Analysis :	01-05-2024 to 06-05-2024	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	Lead [microgram/m3]	0.18	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
3	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) :1974	100.00
4	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
5	Nickel [ng/m3]	10.8	TTH/AAQM/09	20.00

Notes :

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Senior Analyst

Authorized Signatory
(Report No: 24400000782.)



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TEST REPORT

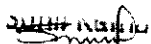
Report No./ULR No.:	400000782.	Date :	06-05-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	29-04-2024 15:42 to 30-04-2024 15:42
Point of Collection :	Near ANFO Station	Date of Receipt :	01-05-2024
Date of Test/Analysis :	01-05-2024 to 06-05-2024	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

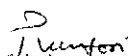
RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
6	Benzene [microgram/m3]	BDL(<1.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
7	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00

Notes :-

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Senior Analyst


Purnima Yogi
Authorized Signatory
(Report No: 400000782.)



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TEST REPORT

Report No./ULR No. :	24400000783	Date :	06-05-2024
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 :	29-04-2024 15:45 to 30-04-2024 15:45
Point of Collection :	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	01-05-2024
Date of Test/Analysis :	01-05-2024 to 06-05-2024	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	Carbon Monoxide [microgram/m3]	290	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	13.94	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	119.46	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	28.79	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	5.89	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	63.27	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: 24400000783)



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TEST REPORT

Report No./ULR No. :	24400000783.	Date :	06-05-2024
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 :	29-04-2024 15:47 to 30-04-2024 15:47
Point of Collection :	Village Lohagal	Date of Receipt :	01-05-2024
Date of Test/Analysis :	01-05-2024 to 06-05-2024	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	Lead [microgram/m3]	0.12	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
3	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) :1974	100.00
4	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
5	Nickel [ng/m3]	6.6	TTH/AAQM/09	20.00

Notes :-

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Sunil Kumar
Senior Analyst

Pulkit Singh
Authorized Signatory
(Report No: 24400000783.)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

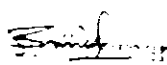
Report No./ULR No.	400000783.	Date :	06-05-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	29-04-2024 15:47 to 30-04-2024 15:47
Point of Collection :	Village Lohagal	Date of Receipt :	01-05-2024
Date of Test/Analysis :	01-05-2024 to 06-05-2024	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

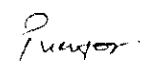
RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Benzene [microgram/m3]	BDL(<1.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
2	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00

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Senior Analyst


Authorized Signatory
(Report No: 400000783.)



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TEST REPORT

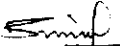
Report No./ULR No. :	24400000784	Date :	06-05-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	29-04-2024 15:49 to 30-04-2024 15:49
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	01-05-2024
Date of Test/Analysis :	01-05-2024 to 06-05-2024	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	Carbon Monoxide [microgram/m3]	260	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	14.54	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	143.56	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	25.24	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	5.77	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	73.34	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst


Authorized Signatory
(Report No: 24400000784)



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TEST REPORT

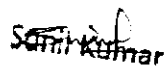
Report No./ULR No. :	24400000784.	Date :	06-05-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	29-04-2024 15:51 to 30-04-2024 15:51
Point of Collection :	Village Gagwana	Date of Receipt :	01-05-2024
Date of Test/Analysis :	01-05-2024 to 06-05-2024	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

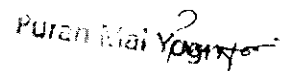
RESULTS

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	Lead [microgram/m3]	0.13	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
3	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) : 1974	100.00
4	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
5	Nickel [ng/m3]	8.8	TTH/AAQM/09	20.00

Notes :-

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Senior Analyst


Authorized Signatory
(Report No: 24400000784.)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	400000784.	Date :	06-05-2024
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 :	29-04-2024 15:51 to 30-04-2024 15:51
Point of Collection :	Village Gagwana	Date of Receipt :	01-05-2024
Date of Test/Analysis :	01-05-2024 to 06-05-2024	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
6	Benzene [microgram/m3]	BDL(<1.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
7	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00

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Senior Analyst

Authorized Signatory
(Report No: 400000784.)



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TEST REPORT

Report No./ULR No. :	24400000785	Date :	06-05-2024
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 :	29-04-2024 15:52 to 30-04-2024 15:52
Point of Collection	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Receipt :	01-05-2024
Date of Test/Analysis :	01-05-2024 to 04-05-2024	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	Carbon Monoxide [microgram/m3]	270	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	12.79	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	124.54	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	27.5	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	5.67	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	66.07	IS 5182 (Part 23)-2006 RA 2017	100.00

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Senior Analyst

Authorized Signatory
(Report No: 24400000785)



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TEST REPORT

Report No./ULR No. :	24400000785.	Date :	06-05-2024
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 :	29-04-2024 15:54 to 30-04-2024 15:54
Point of Collection :	Village Kayad	Date of Receipt :	01-05-2024
Date of Test/Analysis :	01-05-2024 to 04-05-2024	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	Lead [microgram/m3]	0.12	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
3	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) :1974	100.00
4	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
5	Nickel [ng/m3]	9.4	TTH/AAQM/09	20.00

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Sumit
Senior Analyst

Puran
Authorized Signatory
(Report No: 24400000785.)



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TEST REPORT

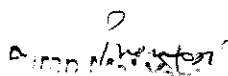
Report No./ULR No. :	400000844.	Date :	14-05-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	08-05-2024 11:51 to 09-05-2024 11:51
Point of Collection :	Village Kayad	Date of Receipt :	11-05-2024
Date of Test/Analysis :	11-05-2024 to 14-05-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
6	Benzene [microgram/m3]	BDL(<1.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
7	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00

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Anurag Maheshwari
Senior Analyst


Rakesh Maheshwari
Authorized Signatory
(Report No: 400000844.)



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Report No./ULR No. :	24400000844.	Date :	14-05-2024
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 :	08-05-2024 11:51 to 09-05-2024 11:51
Point of Collection :	Village Kayad	Date of Receipt :	11-05-2024
Date of Test/Analysis :	11-05-2024 to 14-05-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Prakash 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	Lead [microgram/m3]	0.18	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
3	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) :1974	100.00
4	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
5	Nickel [ng/m3]	14.6	TTH/AAQM/09	20.00

Notes :-

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[Signature]
Senior Analyst

[Signature]
Authorized Signatory
(Report No: 24400000844.)



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Report No./ULR No. :	24400000844	Date :	14-05-2024
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 :	08-05-2024 11:47 to 09-05-2024 11:47
Point of Collection :	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Receipt :	11-05-2024
Date of Test/Analysis :	11-05-2024 to 14-05-2024	Sampling Plan :	IS 5182:2000(Part 14):RA 2014
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Prakash 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	Carbon Monoxide [microgram/m3]	260	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	13.21	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	124.52	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	28.87	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	5.6	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	71.07	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst

Rajesh Chhabra
Authorized Signatory
(Report No: 24400000844)



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

TEST REPORT

Report No./ULR No.:	400000843.	Date :	14-05-2024
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 :	08-05-2024 11:43 to 09-05-2024 11:43
Point of Collection :	Village Gagwana	Date of Receipt :	11-05-2024
Date of Test/Analysis :	11-05-2024 to 14-05-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
6	Benzene [microgram/m3]	BDL(<1.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
7	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00

Notes :-

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Arun
Senior Analyst

Rajesh
Authorized Signatory
(Report No: 400000843.)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	24400000843,	Date :	14-05-2024
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 :	08-05-2024 11:43 to 09-05-2024 11:43
Point of Collection	Village Gagwana	Date of Receipt :	11-05-2024
Date of Test/Analysis :	11-05-2024 to 14-05-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Prakash 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	Lead [microgram/m3]	Less than 0.1	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
3	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) :1974	100.00
4	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
5	Nickel [ng/m3]	8.5	TTH/AAQM/09	20.00

Notes :-

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Puran Mohan
Senior Analyst

Rajesh K. Choudhary
Authorized Signatory
(Report No: 24400000843.)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

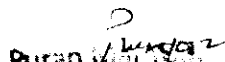
Report No./ULR No. :	24400000843	Date :	14-05-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	08-05-2024 11:41 to 09-05-2024 11:41
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	11-05-2024
Date of Test/Analysis :	11-05-2024 to 14-05-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

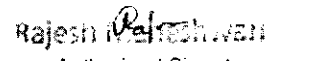
RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	280	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	13.7	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	122.85	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	28.97	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	5.28	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	66.48	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Puran Kumar
Senior Analyst


Rajesh Pal
Authorized Signatory
(Report No: 24400000843)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	400000842.	Date :	14-05-2024
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 :	08-05-2024 11:37 to 09-05-2024 11:37
Point of Collection :	Village Lohagal	Date of Receipt :	11-05-2024
Date of Test/Analysis :	11-05-2024 to 14-05-2024	Sampling Plan :	IS 5182 2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
6	Benzene [microgram/m3]	BDL(<1.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
7	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00

Notes :-

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Raman Maheshwari
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 400000842.)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	24400000842.	Date :	14-05-2024
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 :	08-05-2024 11:37 to 09-05-2024 11:37
Point of Collection :	Village Lohagal	Date of Receipt :	11-05-2024
Date of Test/Analysis :	11-05-2024 to 14-05-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Prakash 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	Lead [microgram/m3]	0.15	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
3	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) :1974	100.00
4	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
5	Nickel [ng/m3]	7.9	TTH/AAQM/09	20.00

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: 24400000842.)



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TEST REPORT

Report No./ULR No.:	24400000842	Date :	14-05-2024
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 :	08-05-2024 11:35 to 09-05-2024 11:35
Point of Collection	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	11-05-2024
Date of Test/Analysis :	11-05-2024 to 14-05-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Prakash 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	Carbon Monoxide [microgram/m3]	290	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	13.5	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	132.02	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	30.08	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	5.69	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	75.88	IS 5182 (Part 23)-2006 RA 2017	100.00

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Senior Analyst

Rajesh Maheshwari

Authorized Signatory
(Report No: 24400000842)



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TEST REPORT

Report No./ULR No.:	400000841.	Date :	14-05-2024
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 :	09-05-2024 11:31 to 10-05-2024 11:31
Point of Collection :	Near ANFO Station	Date of Receipt :	11-05-2024
Date of Test/Analysis :	11-05-2024 to 14-05-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
6	Benzene [microgram/m ³]	BDL(<1.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
7	Benzo-alfa- Pyrene [ng/m ³]	BDL(<0.5)	CPCB Guidelines	1.00

Notes :-

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Puran M. [Signature]
Senior Analyst

Rajesh M. [Signature]
Authorized Signatory
(Report No: 400000841.)



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TEST REPORT

Report No./ULR No. :	24400000841.	Date :	14-05-2024
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 :	09-05-2024 11:31 to 10-05-2024 11:31
Point of Collection	Near ANFO Station	Date of Receipt :	11-05-2024
Date of Test/Analysis :	11-05-2024 to 14-05-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Prakash 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	Lead [microgram/m3]	0.13	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
3	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) :1974	100.00
4	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
5	Nickel [ng/m3]	10.3	TTH/AAQM/09	20.00

Notes -

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[Signature]
Senior Analyst

[Signature]
Rajesh Mishra
Authorized Signatory
(Report No: 24400000841.)



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TEST REPORT

Report No./ULR No. :	24400000841	Date :	14-05-2024
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 :	09-05-2024 11:28 to 10-05-2024 11:28
Point of Collection :	Near ANFO Station	Date of Receipt :	11-05-2024
Date of Test/Analysis :	11-05-2024 to 14-05-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Prakash 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	Carbon Monoxide [microgram/m3]	360	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	14.06	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	148.64	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	30.1	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	6.07	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	79.23	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Puram
Senior Analyst

Banwari Lal Kumawat
Authorized Signatory
(Report No: 24400000841)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	400000840.	Date :	14-05-2024
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 :	09-05-2024 11:25 to 10-05-2024 11:25
Point of Collection	Near CRF	Date of Receipt :	11-05-2024
Date of Test/Analysis :	11-05-2024 to 14-05-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Prakash 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	Benzene [microgram/m3]	BDL(<1.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
2	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00

Notes :-

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A. K. Singh
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 400000840.)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	24400000840.	Date :	14-05-2024
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 :	09-05-2024 11:25 to 10-05-2024 11:25
Point of Collection :	Near CRF	Date of Receipt :	11-05-2024
Date of Test/Analysis :	11-05-2024 to 14-05-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Prakash 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	Lead [microgram/m3]	0.1	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
3	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) :1974	100.00
4	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
5	Nickel [ng/m3]	6.5	TTH/AAQM/09	20.00

Notes :

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Senior Analyst

Authorized Signatory
(Report No: 24400000840.)



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

TEST REPORT

Report No./ULR No. :	24400000840	Date :	14-05-2024
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 :	09-05-2024 11:23 to 10-05-2024 11:24
Point of Collection :	Near CRF	Date of Receipt :	11-05-2024
Date of Test/Analysis :	11-05-2024 to 14-05-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Prakash 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	Carbon Monoxide [microgram/m3]	390	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	14.32	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	135.75	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	35.5	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	6.45	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	75.19	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Arun Kumar
Senior Analyst

Rajesh Kumar
Authorized Signatory
(Report No: 24400000840)



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TEST REPORT

Report No./ULR No. :	400000839.	Date :	14-05-2024
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 :	09-05-2024 11:21 to 10-05-2024 11:21
Point of Collection :	Near Sub Station	Date of Receipt :	11-05-2024
Date of Test/Analysis :	11-05-2024 to 14-05-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
6	Benzene [microgram/m3]	BDL(<1.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
7	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00

Notes :-

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Puran Mishra
Senior Analyst Yoni

Rajesh Kumar
Authorized Signatory
(Report No: 400000839.)



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Email : director@teamtesthouse.com,
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TEST REPORT

Report No./ULR No. :	24400000839.	Date :	14-05-2024
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 :	09-05-2024 11:21 to 10-05-2024 11:21
Point of Collection :	Near Sub Station	Date of Receipt :	11-05-2024
Date of Test/Analysis :	11-05-2024 to 14-05-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Prakash 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	Lead [microgram/m3]	0.13	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
3	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) :1974	100.00
4	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
5	Nickel [ng/m3]	9.8	TTH/AAQM/09	20.00

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Senior Analyst

Rajendra Kumar
Authorized Signatory
(Report No: 24400000839.)



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TEST REPORT

Report No./ULR No. :	24400000839	Date :	14-05-2024
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 :	09-05-2024 11:19 to 10-05-2024 11:19
Point of Collection :	Near Sub Station	Date of Receipt :	11-05-2024
Date of Test/Analysis :	11-05-2024 to 14-05-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Prakash 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	Carbon Monoxide [microgram/m3]	410	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	14.57	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	146.52	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	32.72	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	6.19	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	77.48	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes -

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P. Kumar
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 24400000839)



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TEST REPORT

Report No./ULR No.	24400000899	Date :	03-06-2024
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 :	29-05-2024 15:52 to 30-05-2024 15:52
Point of Collection	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Receipt :	31-05-2024
Date of Test Analysis	31-05-2024 to 01-06-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample	-	Sample Collected By :	Sitaram jangid
Units representative	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

Sl. No.	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	270	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	13.85	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	128.66	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	31.72	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	5.68	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	59.02	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes -

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Duran Mal Yogi
Senior Analyst

Authorized Signatory
Rajesh Maheshwari
(Report No. 24400000899)



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TEST REPORT

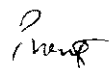
Report No./ULR No. :	24400000899.	Date :	03-06-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	29-05-2024 15:54 to 30-05-2024 15:54
Point of Collection :	Village Kayad	Date of Receipt :	31-05-2024
Date of Test/Analysis :	31-05-2024 to 01-06-2024	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	Lead [microgram/m3]	0.14	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
3	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) :1974	100.00
4	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
5	Nickel [ng/m3]	5.7	TTH/AAQM/09	20.00

Notes :-

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Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: 24400000899.)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	400000899.	Date :	03-06-2024
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 :	29-05-2024 15:54 to 30-05-2024 15:54
Point of Collection	Village Kayad	Date of Receipt :	31-05-2024
Date of Test/Analysis :	31-05-2024 to 01-06-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample	-	Sample Collected By :	Sitaram jangid
Units representative :	Mr Prakash 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	Benzene [microgram/m3]	BDL(<1.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
2	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00

Notes :-

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Pooja Mal Yogi
Senior Analyst

Rajendra Singhwari
(Report No: 400000899.)



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TEST REPORT

Report No./ULR No. :	24400000900	Date :	03-06-2024
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 :	29-05-2024 15:56 to 30-05-2024 15:56
Point of Collection :	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	31-05-2024
Date of Test/Analysis :	31-05-2024 to 01-06-2024	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	Carbon Monoxide [microgram/m3]	260	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	12.83	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	120.75	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	26.75	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	5.61	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	66.15	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Pankaj Mal Yogi
Senior Analyst

Rajesh Wadhawan
(Report No: 24400000900)



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TEST REPORT

Report No./ULR No. :	24400000900.	Date :	03-06-2024
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 :	29-05-2024 16:23 to 30-05-2024 16:23
Point of Collection	Village Lohagal	Date of Receipt :	31-05-2024
Date of Test/Analysis :	31-05-2024 to 01-06-2024	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	Lead [microgram/m3]	0.13	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
3	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) :1974	100.00
4	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
5	Nickel [ng/m3]	8.4	TTH/AAQM/09	20.00

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Per Anand Yogi

Rajesh Singhwari
(Report No: 24400000900.)



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TEST REPORT

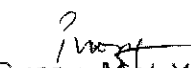
Report No./ULR No. :	400000900.	Date :	03-06-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	29-05-2024 16:23 to 30-05-2024 16:23
Point of Collection :	Village Lohagal	Date of Receipt :	31-05-2024
Date of Test/Analysis :	31-05-2024 to 01-06-2024	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
6	Benzene [microgram/m3]	BDL(<1.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
7	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00

Notes :-

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Puran Mal Yogi
Senior Analyst


Authorized Signatory
Rajesh Kumar
(Report No: 400000900.)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	24400000901	Date :	03-06-2024
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 :	29-05-2024 16:25 to 30-05-2024 16:25
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	31-05-2024
Date of Test/Analysis :	31-05-2024 to 01-06-2024	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	Carbon Monoxide [microgram/m3]	280	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	13.66	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	147.06	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	28.81	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	5.6	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	76.7	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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

Sent By: **Anand Mal Yogi**

Authorized Signatory:
Rajesh Maheshwari
(Report No: 24400000901)



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Email : marketinglab@teamtesthouse.com

TEST REPORT


Report No./ULR No. :	24400000901.	Date :	03-06-2024
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 :	29-05-2024 16:25 to 30-05-2024 16:26
Point of Collection :	Village Gagwana	Date of Receipt :	31-05-2024
Date of Test/Analysis :	31-05-2024 to 01-06-2024	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	Lead [microgram/m3]	0.13	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
3	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) :1974	100.00
4	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
5	Nickel [ng/m3]	8.7	TTH/AAQM/09	20.00

Notes :-

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Senior Analyst **Mal Yog**


Rajesh Maheshwari
Authorized Signatory
(Report No: 24400000901.)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	400000901.	Date :	03-06-2024
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 :	29-05-2024 16:25 to 30-05-2024 16:26
Point of Collection :	Village Gagwana	Date of Receipt :	31-05-2024
Date of Test/Analysis :	31-05-2024 to 01-06-2024	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
6	Benzene [microgram/m3]	BDL(<1.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
7	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00

Notes :-

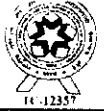
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Duran Mal Yogi
Senior Analyst


Kalash Maheshwari
(Report No: 400000901.)



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

TEST REPORT

Report No./ULR No. :	24400000902	Date :	03-06-2024
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 :	30-05-2024 16:27 to 31-05-2024 16:27
Point of Collection :	Near CRF	Date of Receipt :	31-05-2024
Date of Test/Analysis :	31-05-2024 to 01-06-2024	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	Lead [microgram/m3]	0.19	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
3	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) :1974	100.00
4	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
5	Nickel [ng/m3]	13.9	TTH/AAQM/09	20.00

Notes :-

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Purnan Mal Yogi
Senior Analyst

Rajesh Mishra
(Report No: 24400000902)



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TEST REPORT

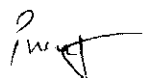
Report No./ULR No. :	400000902	Date :	03-06-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	30-05-2024 16:27 to 31-05-2024 16:27
Point of Collection :	Near CRF	Date of Receipt :	31-05-2024
Date of Test/Analysis :	31-05-2024 to 01-06-2024	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	Benzene [microgram/m3]	BDL(<1.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
2	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00

Notes :-

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Senior Analyst
Mal Yogi


Authorized Signatory
Rakesh Mohanwar
(Report No. 400000902)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	24400000902.	Date :	03-06-2024
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 :	30-05-2024 16:28 to 31-05-2024 16:28
Point of Collection :	Near CRF	Date of Receipt :	31-05-2024
Date of Test/Analysis :	31-05-2024 to 01-06-2024	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	Carbon Monoxide [microgram/m3]	340	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	14.59	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	147.16	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	30.19	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	6.81	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	76.23	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 24400000902.)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No.	24400000903	Date :	03-06-2024
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 :	30-05-2024 16:32 to 31-05-2024 16:32
Point of Collection	Near ANFO Station	Date of Receipt :	31-05-2024
Date of Test Analysis :	31-05-2024 to 01-06-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram Jangid
Units representative :	Mr Prakash 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	Lead [microgram/m3]	0.18	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
3	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) :1974	100.00
4	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
5	Nickel [ng/m3]	10.9	TTH/AAQM/09	20.00

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Senior Analyst **Mal Yogi**

Authorized Signatory
Rajesh Kumar
(Report No: 24400000903)



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TEST REPORT

Report No./ULR No. :	400000903	Date :	03-06-2024
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 :	30-05-2024 16:32 to 31-05-2024 16:32
Point of Collection :	Near ANFO Station	Date of Receipt :	31-05-2024
Date of Test/Analysis :	31-05-2024 to 01-06-2024	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
6	Benzene [microgram/m3]	BDL(<1.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
7	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00

Notes :-

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Senior Analyst **Mal Yogi**

Authorized Signatory
Rajesh Maheshwari
(Report No: 400000903)



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TEST REPORT

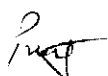
Report No./ULR No.:	24400000903.	Date :	03-06-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	30-05-2024 16:36 to 31-05-2024 16:36
Point of Collection	Near ANFO Station	Date of Receipt :	31-05-2024
Date of Test/Analysis :	31-05-2024 to 01-06-2024	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	Carbon Monoxide [microgram/m3]	360	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	15.19	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	132.39	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	32.8	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	6.87	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	69.46	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes -

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Senior Analyst Yogi


Rajesh Mishra
(Report No: 24400000903.)



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Email : marketinglab@teamtesthouse.com

TEST REPORT


Report No./ULR No. :	24400000904	Date :	03-06-2024
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 :	30-05-2024 16:39 to 31-05-2024 16:39
Point of Collection :	Near Sub Station	Date of Receipt :	31-05-2024
Date of Test/Analysis :	31-05-2024 to 01-06-2024	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	Lead [microgram/m3]	0.18	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
3	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) :1974	100.00
4	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
5	Nickel [ng/m3]	9.4	TTH/AAQM/09	20.00

Notes :-

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Senior Analyst **Mal Yogi**


Authorized Signatory
(Report No: 24400000904)



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

TEST REPORT

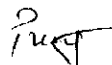
Report No./ULR No. :	400000904	Date :	03-06-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	30-05-2024 16:39 to 31-05-2024 16:39
Point of Collection :	Near Sub Station	Date of Receipt :	31-05-2024
Date of Test/Analysis :	31-05-2024 to 01-06-2024	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
6	Benzene [microgram/m3]	BDL(<1.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
7	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00

Notes :-

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Purnima Yogi
Senior Analyst


Rajesh Vishwakshori
(Report No: 400000904)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

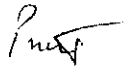
Report No./ULR No. :	24400000904.	Date :	03-06-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	30-05-2024 16:40 to 31-05-2024 16:40
Point of Collection :	Near Sub Station	Date of Receipt :	31-05-2024
Date of Test/Analysis :	31-05-2024 to 01-06-2024	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	Carbon Monoxide [microgram/m3]	370	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	14.85	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	137.2	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	33.53	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	6.87	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	73.13	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst
Purnima Yogi


Rajesh Mishra
(Report No: 24400000904.)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No :	24400000980.	Date :	21-06-2024
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 :	11-06-2024 15:37 to 12-06-2024 15:37
Point of Collection	Near Sub Station	Date of Receipt :	15-06-2024
Date of Test/Analysis :	15-06-2024 to 18-06-2024	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	Carbon Monoxide [microgram/m3]	340	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	14.07	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	149.62	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	36.71	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	6.69	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	75.55	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: 24400000980.)



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TEST REPORT

Report No./ULR No. :	24400000980	Date :	21-06-2024
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 :	11-06-2024 15:36 to 12-06-2024 15:36
Point of Collection :	Near Sub Station	Date of Receipt :	15-06-2024
Date of Test/Analysis :	15-06-2024 to 19-06-2024	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	Lead [microgram/m3]	0.16	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
3	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) :1974	100.00
4	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
5	Nickel [ng/m3]	10.9	TTH/AAQM/09	20.00

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Senior Analyst

Authorized Signatory

(Report No: 24400000980)



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TEST REPORT

Report No./ULR No. :	400000980	Date :	21-06-2024
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 :	11-06-2024 15:36 to 12-06-2024 15:36
Point of Collection :	Near Sub Station	Date of Receipt :	15-06-2024
Date of Test/Analysis :	15-06-2024 to 19-06-2024	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	Benzene [microgram/m3]	BDL(<1.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
2	Benzo-alfa- Pyrene [ng/m3]	BDL(<1.0)	CPCB Guidelines	1.00

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Senior Analyst

Authorized Signatory
(Report No: 400000980)



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TEST REPORT

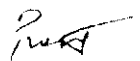
Report No./ULR No. :	24400000981.	Date :	21-06-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	11-06-2024 15:45 to 12-06-2024 15:46
Point of Collection :	Near CRF	Date of Receipt :	15-06-2024
Date of Test/Analysis :	15-06-2024 to 18-06-2024	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

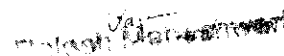
RESULTS

S No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	360	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	14.97	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	138.43	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	38.92	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	6.9	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	72.08	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst


Authorized Signatory
(Report No: 24400000981.)



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TEST REPORT


Report No./ULR No.	24400000981	Date :	21-06-2024
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 :	11-06-2024 15:42 to 12-06-2024 15:43
Point of Collection	Near CRF	Date of Receipt :	15-06-2024
Date of Test Analysis	15-06-2024 to 19-06-2024	Sampling Plan :	IS 5182 2000(Part 14)RA 2014
Quantity of Sample	-	Sample Collected By :	Sitaram jangid
Test representative	Mr Prakash 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	Lead [microgram/m3]	0.12	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
3	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) : 1974	100.00
4	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
5	Nickel [ng/m3]	12.5	TTH/AAQM/09	20.00

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Senior Analyst


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TEST REPORT

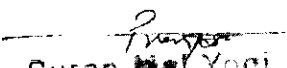
Report No./ULR No. :	400000981	Date :	21-06-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	11-06-2024 15:42 to 12-06-2024 15:43
Point of Collection :	Near CRF	Date of Receipt :	15-06-2024
Date of Test/Analysis :	15-06-2024 to 19-06-2024	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
6	Benzene [microgram/m3]	BDL(<1.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
7	Benzo-alfa- Pyrene [ng/m3]	BDL(<1.0)	CPCB Guidelines	1.00

Notes :-

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Senior Analyst


Authorized Signatory
(Report No: 400000981)



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TEST REPORT

Report No./ULR No.:	24400000982.	Date :	21-06-2024
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 :	11-06-2024 15:48 to 12-06-2024 15:48
Point of Collection	Near ANFO Station	Date of Receipt :	15-06-2024
Date of Test Analysis :	15-06-2024 to 18-06-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample	-	Sample Collected By :	Sitaram jangid
Units representative :	Mr Prakash 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	Carbon Monoxide [microgram/m3]	310	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	14.73	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	153.02	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	39.9	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	6.86	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	78.5	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Purnan K. Yadav
Senior Analyst

Rajesh Mishra
Authorized Signatory
(Report No: 24400000982.)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	24400000982	Date :	21-06-2024
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 :	11-06-2024 15:47 to 12-06-2024 15:47
Point of Collection :	Near ANFO Station	Date of Receipt :	15-06-2024
Date of Test/Analysis :	15-06-2024 to 19-06-2024	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	Lead [microgram/m3]	0.12	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
3	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) :1974	100.00
4	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
5	Nickel [ng/m3]	15.2	TTH/AAQM/09	20.00

Notes -

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Punit Yogi
Senior Analyst

Authorized Signatory
(Report No: 24400000982)



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TEST REPORT


Report No./ULR No. :	400000982	Date :	21-06-2024
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 :	11-06-2024 15:47 to 12-06-2024 15:47
Point of Collection :	Near ANFO Station	Date of Receipt :	15-06-2024
Date of Test/Analysis :	15-06-2024 to 19-06-2024	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

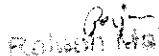
RESULTS

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

Notes :-

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Pawan Mal Yogi
Senior Analyst


Rohan Maheshwari
Authorized Signatory
(Report No: 400000982)



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



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TEST REPORT

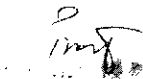
Report No./ULR No. :	24400000983	Date :	21-06-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	10-06-2024 15:49 to 11-06-2024 15:49
Point of Collection	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	15-06-2024
Date of Test/Analysis :	15-06-2024 to 18-06-2024	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

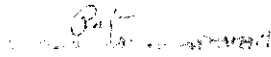
RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	280	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	13.81	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	128.39	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	24.41	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	5.5	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	58.95	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes -

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Senior Analyst


Authorized Signatory

(Report No: 24400000983)



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

TEST REPORT

Report No./ULR No. :	24400000983.	Date :	21-06-2024
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 :	10-06-2024 15:51 to 11-06-2024 15:51
Point of Collection	Village Lohagal	Date of Receipt :	15-06-2024
Date of Test/Analysis :	15-06-2024 to 19-06-2024	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	Lead [microgram/m3]	Less than 0.1	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
3	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) :1974	100.00
4	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
5	Nickel [ng/m3]	2.2	TTH/AAQM/09	20.00

Notes :-

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Duran Singh
Sen or Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: 24400000983.)



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TEST REPORT

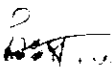
Report No./ULR No. :	400000983.	Date :	21-06-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	10-06-2024 15:51 to 11-06-2024 15:51
Point of Collection	Village Lohagal	Date of Receipt :	15-06-2024
Date of Test/Analysis :	15-06-2024 to 19-06-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample	-	Sample Collected By :	Sitaram jangid
Units representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

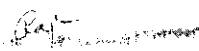
RESULTS

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

Notes :

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Senior Analyst


Authorized Signatory
(Report No: 400000983.)



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

TEST REPORT

Report No./ULR No. :	24400000984	Date :	21-06-2024
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 :	10-06-2024 15:52 to 11-06-2024 15:52
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	15-06-2024
Date of Test/Analysis :	15-06-2024 to 18-06-2024	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	Carbon Monoxide [microgram/m3]	290	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	13.83	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	112.47	IS 5182 (Part 4) : 1999 RA 2019	n
4	Particulate Matter (PM2.5) [microgram/m3]	27.57	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	5.54	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	62.88	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: 24400000984)



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TEST REPORT

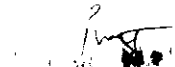
Report No./ULR No.:	24400000984.	Date :	21-06-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	10-06-2024 15:54 to 11-06-2024 15:54
Point of Collection	Village Gagwana	Date of Receipt :	15-06-2024
Date of Test Analysis :	15-06-2024 to 19-06-2024	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	Lead [microgram/m3]	Less than 0.1	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
3	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) :1974	100.00
4	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
5	Nickel [ng/m3]	5.4	TTH/AAQM/09	20.00

Notes -

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Senior Analyst


Authorized Signatory
(Report No: 24400000984.)



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TEST REPORT

Report No./ULR No. :	400000984.	Date :	21-06-2024
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 :	10-06-2024 15:54 to 11-06-2024 15:54
Point of Collection	Village Gagwana	Date of Receipt :	15-06-2024
Date of Test/Analysis :	15-06-2024 to 19-06-2024	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

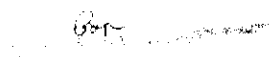
RESULTS

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

Notes :

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Senior Analyst


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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	24400000985	Date :	21-06-2024
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 :	10-06-2024 16:07 to 11-06-2024 16:07
Point of Collection	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Receipt :	15-06-2024
Date of Test/Analysis :	15-06-2024 to 18-06-2024	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

Sl. No.	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	270	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	13.06	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	127.78	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	29.06	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	5.18	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	67.2	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes -

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Senior Analyst

Authorized Signatory

(Report No: 24400000985)



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TEST REPORT

Report No./ULR No. :	24400000985.	Date :	21-06-2024
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 :	10-06-2024 16.15 to 11-06-2024 16:15
Point of Collection :	Village Kayad	Date of Receipt :	15-06-2024
Date of Test/Analysis :	15-06-2024 to 19-06-2024	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	Lead [microgram/m3]	Less than 0.1	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
3	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) :1974	100.00
4	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
5	Nickel [ng/m3]	4.1	TTH/AAQM/09	20.00

Notes :-

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Purnan Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 24400000985.)



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

TEST REPORT

Report No./ULR No	400000985.	Date :	21-06-2024
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 :	10-06-2024 16:15 to 11-06-2024 16:15
Form of Collection	Village Kayad	Date of Receipt :	15-06-2024
Date of Test/Analysis :	15-06-2024 to 19-06-2024	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

Sl. No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Benzene [microgram/m3]	BDL(<1.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
2	Benz[a]a-fa- Pyrene [ng/m3]	BDL(<1.0)	CPCB Guidelines	1.00

Notes :

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Senior Analyst


Authorized Signatory
(Report No: 400000985.)



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

TEST REPORT

Report No./ULR No. :	24400001152	Date :	05-07-2024
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 :	28-06-2024 17:01 to 29-06-2024 17:01
Point of Collection	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Receipt :	01-07-2024
Date of Test/Analysis :	01-07-2024 to 05-07-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan 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	Carbon Monoxide [microgram/m3]	270	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	14.03	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	127.17	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	27.94	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	6	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	61.93	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: 24400001152)



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TEST REPORT

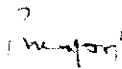
Report No./ULR No. :	24400001152.	Date :	05-07-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	28-06-2024 17:03 to 29-06-2024 17:03
Point of Collection :	Village Kayad	Date of Receipt :	01-07-2024
Date of Test/Analysis :	01-07-2024 to 05-07-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan 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	Lead [microgram/m3]	0.17	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
3	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) :1974	100.00
4	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
5	Nickel [ng/m3]	6.9	TTH/AAQM/09	20.00

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Senior Analyst


Authorized Signatory
(Report No: 24400001152.)



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TEST REPORT

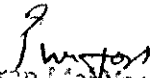
Report No./ULR No. :	400001152.	Date :	05-07-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	28-06-2024 17:03 to 29-06-2024 17:03
Point of Collection :	Village Kayad	Date of Receipt :	01-07-2024
Date of Test/Analysis :	01-07-2024 to 05-07-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan 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
6	Benzene [microgram/m3]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
7	Benzo-alfa- Pyrene [ng/m3]	BDL(<1.0)	CPCB Guidelines	1.00

Notes :-

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Purnima Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: 400001152.)



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TEST REPORT

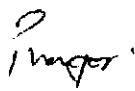
Report No./ULR No. :	24400001153	Date :	05-07-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	28-06-2024 17:05 to 29-06-2024 17:05
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	01-07-2024
Date of Test/Analysis :	01-07-2024 to 05-07-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan 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	Carbon Monoxide [microgram/m3]	250	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	13.79	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	125.66	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	28.84	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	5.41	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	67.34	IS 5182 (Part 23)-2006 RA 2017	100.00

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Senior Analyst


Authorized Signatory
(Report No: 24400001153)



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TEST REPORT

Report No./ULR No. :	24400001153.	Date :	05-07-2024
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 :	28-06-2024 17:06 to 29-06-2024 17:06
Point of Collection :	Village Gagwana	Date of Receipt :	01-07-2024
Date of Test/Analysis :	01-07-2024 to 05-07-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan 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	Lead [microgram/m3]	0.18	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
3	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) :1974	100.00
4	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
5	Nickel [ng/m3]	10.8	TTH/AAQM/09	20.00

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Senior Analyst

Authorized Signatory
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TEST REPORT

Report No./ULR No. :	400001153.	Date :	05-07-2024
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 :	28-06-2024 17:06 to 29-06-2024 17:06
Point of Collection :	Village Gagwana	Date of Receipt :	01-07-2024
Date of Test/Analysis :	01-07-2024 to 05-07-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan 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
6	Benzene [microgram/m ³]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
7	Benzo-alfa- Pyrene [ng/m ³]	BDL(<1.0)	CPCB Guidelines	1.00

Notes -

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Purnima Yogi
Senior Analyst

Prakashwari
Authorized Signatory
(Report No: 400001153.)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No.:	24400001154	Date :	05-07-2024
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 :	28-06-2024 17:08 to 29-06-2024 17:08
Point of Collection	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	01-07-2024
Date of Test/Analysis :	01-07-2024 to 05-07-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

Sr No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	260	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	13.04	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	126.78	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	25.93	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	5.11	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	70.97	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Sachin Analyst

Authorized Signatory
(Report No: 24400001154)



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TEST REPORT

Report No./ULR No. :	24400001154.	Date :	05-07-2024
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 :	28-06-2024 17:10 to 29-06-2024 17:10
Point of Collection :	Village Lohagal	Date of Receipt :	01-07-2024
Date of Test/Analysis :	01-07-2024 to 05-07-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan 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	Lead [microgram/m3]	0.12	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
3	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) :1974	100.00
4	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
5	Nickel [ng/m3]	10.5	TTH/AAQM/09	20.00

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Purnima Kishor Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 24400001154.)



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TEST REPORT

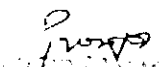
Report No./ULR No. :	400001154.	Date :	05-07-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	28-06-2024 17:10 to 29-06-2024 17:10
Point of Collection	Village Lohagal	Date of Receipt :	01-07-2024
Date of Test/Analysis :	01-07-2024 to 05-07-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan 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	Benzene [microgram/m3]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
2	Benzo-alfa- Pyrene [ng/m3]	BDL(<1.0)	CPCB Guidelines	1.00

Notes :-

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Senior Analyst


Authorized Signatory
(Report No: 400001154.)



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TEST REPORT

Report No./ULR No. :	24400001156.	Date :	05-07-2024
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 :	29-06-2024 17:26 to 30-06-2024 17:27
Point of Collection :	Near ANFO Station	Date of Receipt :	01-07-2024
Date of Test/Analysis :	01-07-2024 to 05-07-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan 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	Carbon Monoxide [microgram/m3]	330	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	14.89	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	133.85	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	29.56	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	6.85	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	72.69	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: 24400001156.)



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

TEST REPORT

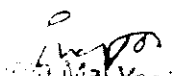
Report No./ULR No.	24400001156	Date :	05-07-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	29-05-2024 17:25 to 30-06-2024 17:25
Point of Collection	Near ANFO Station	Date of Receipt :	01-07-2024
Date of Test Analysis :	01-07-2024 to 05-07-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample	-	Sample Collected By :	kishan murari
Units representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

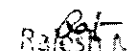
RESULTS

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	Lead [microgram/m3]	0.17	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
3	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) :1974	100.00
4	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
5	Nickel [ng/m3]	9.2	TTH/AAQM/09	20.00

Notes :

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Senior Analyst


Authorized Signatory
(Report No: 24400001156)



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RSPCB

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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	400001156	Date :	05-07-2024
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 :	29-05-2024 17:25 to 30-06-2024 17:25
Point of Collection :	Near ANFO Station	Date of Receipt :	01-07-2024
Date of Test/Analysis :	01-07-2024 to 05-07-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan 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
6	Benzene [microgram/m3]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
7	Benzo-alfa- Pyrene [ng/m3]	BDL(<1.0)	CPCB Guidelines	1.00

Notes :-

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Purni Mai Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 400001156)



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TEST REPORT

Report No./ULR No.	24400001157.	Date :	05-07-2024
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 :	29-06-2024 17:34 to 30-06-2024 17:34
Point of Collection	Near Sub Station	Date of Receipt :	01-07-2024
Date of Test/Analysis :	01-07-2024 to 05-07-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan murari
Units representative :	Mr Prakash 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	Carbon Monoxide [microgram/m3]	310	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	14.4	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	135.46	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	25.14	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	6.49	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	69.76	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :

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Purush Maheshwari
Ser or Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No. 24400001157.)



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TEST REPORT

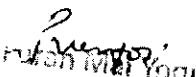
Report No./ULR No. :	24400001157	Date :	05-07-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	29-06-2024 17:31 to 30-06-2024 17:32
Point of Collection :	Near Sub Station	Date of Receipt :	01-07-2024
Date of Test/Analysis :	01-07-2024 to 05-07-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan 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	Lead [microgram/m3]	0.16	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
3	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) : 1974	100.00
4	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
5	Nickel [ng/m3]	4.4	TTH/AAQM/09	20.00

Notes :-

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Senior Analyst


Authorized Signatory
(Report No: 24400001157)



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TEST REPORT

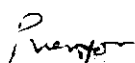
Report No./ULR No. :	400001157	Date :	05-07-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	29-06-2024 17:31 to 30-06-2024 17:32
Point of Collection	Near Sub Station	Date of Receipt :	01-07-2024
Date of Test/Analysis :	01-07-2024 to 05-07-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

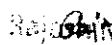
RESULTS

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

Notes :-

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Senior Analyst


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TEST REPORT

Report No./ULR No.:	400001158	Date :	05-07-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Work Zone Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	29-06-2024
Point of Collection :	Ore Yard	Date of Receipt :	01-07-2024
Date of Test/Analysis :	01-07-2024 to 05-07-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limit as per the MMR 1961
1	Suspended Particulate Matter [mg/m3]	0.652	IS 5182 (Part 4) : 1999 RA 2019	10

Notes :-

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Senior Analyst

Purvi Maheshwari

Authorized Signatory

(Report No: 400001158)



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TEST REPORT

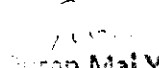
Report No./ULR No. :	24400001155.	Date :	05-07-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	29-06-2024 17:23 to 30-06-2024 17:23
Point of Collection :	Near CRF	Date of Receipt :	01-07-2024
Date of Test/Analysis :	01-07-2024 to 05-07-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan 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	Carbon Monoxide [microgram/m3]	280	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	14.99	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	120.1	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	29.09	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	6.3	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	64.87	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Anurag Mai Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: 24400001155.)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

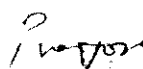
Report No./ULR No. :	24400001155	Date :	05-07-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	29-06-2024 17:15 to 30-06-2024 17:20
Point of Collection :	Near CRF	Date of Receipt :	01-07-2024
Date of Test/Analysis :	01-07-2024 to 05-07-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan 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	Lead [microgram/m3]	0.11	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
3	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) :1974	100.00
4	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
5	Nickel [ng/m3]	8.7	TTH/AAQM/09	20.00

Notes :-

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Senior Analyst


Authorized Signatory

(Report No: 24400001155)



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

TEST REPORT

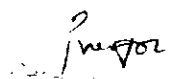
Report No./ULR No. :	400001155	Date :	05-07-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	29-06-2024 17:15 to 30-06-2024 17:20
Point of Collection :	Near CRF	Date of Receipt :	01-07-2024
Date of Test/Analysis :	01-07-2024 to 05-07-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan 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
6	Benzene [microgram/m3]	BDL(<2.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
7	Benzo-alfa- Pyrene [ng/m3]	BDL(<1.0)	CPCB Guidelines	1.00

Notes :

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Senior Analyst


Authorized Signatory
(Report No. 400001155)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	24400001301	Date :	18-07-2024
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 :	11-07-2024 16:10 to 12-07-2024 16:10
Point of Collection	Near Sub Station	Date of Receipt :	15-07-2024
Date of Test/Analysis :	15-07-2024 to 17-07-2024	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]	290	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]	10.7	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]	114.27	IS 5182 (Part 4) : 1999 RA 2019	500
7	Particulate Matter (PM2.5) [microgram/m3]	23.03	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]	57.4	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	5.8	TTH/AAQM/09	20.00

Notes :-

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Prakash
Senior Analyst

Rajesh Manishwari
Authorized Signatory
(Report No. 24400001301)



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

TEST REPORT

Report No./ULR No. :	400001301	Date :	18-07-2024
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 :	11-07-2024 16:10 to 12-07-2024 16:10
Point of Collection :	Near Sub Station	Date of Receipt :	15-07-2024
Date of Test/Analysis :	15-07-2024 to 17-07-2024	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: 400001301)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	24400001302	Date :	18-07-2024
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 :	11-07-2024 16:11 to 12-07-2024 16:12
Point of Collection	Near CRF	Date of Receipt	15-07-2024
Date of Test/Analysis :	15-07-2024 to 17-07-2024	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]	0.1	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	11.33	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]	112.17	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	28.5	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.57	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	50.37	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]	7.9	TTH/AAQM/09	20.00

Notes :-

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Senior Analyst

Authorized Signatory

(Report No. 24400001302)



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TEST REPORT

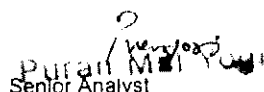
Report No./ULR No. :	400001302	Date :	18-07-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	11-07-2024 16:11 to 12-07-2024 16:12
Point of Collection :	Near CRF	Date of Receipt :	15-07-2024
Date of Test/Analysis :	15-07-2024 to 17-07-2024	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

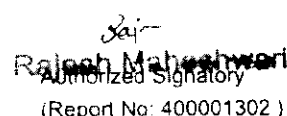
RESULTS

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
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: 400001302)



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TEST REPORT

Report No./ULR No. :	24400001303	Date :	18-07-2024
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 :	11-07-2024 16:13 to 12-07-2024 16:13
Point of Collection :	Near ANFO Station	Date of Receipt :	15-07-2024
Date of Test/Analysis :	15-07-2024 to 17-07-2024	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]	380	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.13	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	15.4	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]	117.71	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	26.81	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.56	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	52.48	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]	4.7	TTH/AAQM/09	20.00

Notes :

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Puran Mal
Puran Mal Yadav
Senior Analyst

Author
Authorized Signatory
(Report No. 24400001303)



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TEST REPORT

Report No./ULR No. :	400001303	Date :	18-07-2024
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 :	11-07-2024 16:13 to 12-07-2024 16:13
Point of Collection :	Near ANFO Station	Date of Receipt :	15-07-2024
Date of Test/Analysis :	15-07-2024 to 17-07-2024	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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P. Maheshwari
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 400001303)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No.:	24400001304	Date:	18-07-2024
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:	11-07-2024 16.14 to 12-07-2024 16.14
Point of Collection	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt:	15-07-2024
Date of Test/Analysis	15-07-2024 to 17-07-2024	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]	180	TTH/AAQM/08	4000
3	Lead [microgram/m3]	Less than 0.1	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	12.31	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]	73.73	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	20.66	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]	40.79	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]	4.2	TTH/AAQM/09	20.00

Notes :-

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Senior Analyst

Authorized Signatory

(Report No. 24400001304)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	400001304	Date :	18-07-2024
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 :	11-07-2024 16:14 to 12-07-2024 16:14
Point of Collection :	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	15-07-2024
Date of Test/Analysis :	15-07-2024 to 17-07-2024	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
Authorized Signatory
(Report No: 400001304)



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TEST REPORT

Report No./ULR No. :	24400001305	Date :	18-07-2024
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 :	10-07-2024 16:15 to 11-07-2024 16:15
Point of Collection	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	15-07-2024
Date of Test/Analysis :	15-07-2024 to 18-07-2024	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]	170	TTH/AAQM/08	4000
3	Lead [microgram/m3]	Less than 0.1	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	13.41	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]	83.41	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	23.02	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]	38.29	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]	4.3	TTH/AAQM/09	20.00

Notes :

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Puran Mal Yogi
Senior Analyst

Rakesh Maheshwari
Authorized Signatory
(Report No. 24400001305)



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TEST REPORT

Report No./ULR No.	400001305	Date :	18-07-2024
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 :	10-07-2024 16:15 to 11-07-2024 16:15
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	15-07-2024
Date of Test/Analysis :	15-07-2024 to 18-07-2024	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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D
/ 18/07/24
Puran Mali Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 400001305)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	24400001306	Date :	18-07-2024
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 :	10-07-2024 16:17 to 11-07-2024 16:17
Point of Collection	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Receipt :	15-07-2024
Date of Test/Analysis :	15-07-2024 to 18-07-2024	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]	180	TTH/AAQM/08	4000
3	Lead [microgram/m3]	Less than 0.1	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	13.58	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) :1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	96.18	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	21.64	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]	45.94	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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Purnima Yadav
Senior Analyst

Rajesh Mishra
Authorized Signatory
(Report No. 24400001306)



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

Report No./ULR No. :	400001306	Date :	18-07-2024
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 :	10-07-2024 16:17 to 11-07-2024 16:17
Point of Collection :	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Receipt :	15-07-2024
Date of Test/Analysis :	15-07-2024 to 18-07-2024	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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Pankaj Maheshwari
Senior Analyst

Rakesh Maheshwari
Authorized Signatory
(Report No: 400001306)



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marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No	24400001410	Date :	03-08-2024
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 :	24-07-2024 17:08 to 25-07-2024 17:09
Point of Collection	Near Sub Station	Date of Receipt	31-07-2024
Date of Test/Analysis :	31-07-2024 to 03-08-2024	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]	0.13	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.84	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]	138.38	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	29.72	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.72	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	63.97	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]	8.5	TTH/AAQM/09	20.00

Notes :

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Purni Mathur
Senior Analyst

Rakesh Maheshwari
Authorized Signatory
(Report No. 24400001410)



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TEST REPORT

Report No./ULR No. :	400001410	Date :	03-08-2024
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 :	24-07-2024 17:08 to 25-07-2024 17:09
Point of Collection :	Near Sub Station	Date of Receipt :	31-07-2024
Date of Test/Analysis :	31-07-2024 to 03-08-2024	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 Mal Yogi
Senior Analyst

Anil Maheshwari
Authorized Signatory
(Report No: 400001410)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No.	24400001411	Date :	03-08-2024
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 :	24-07-2024 17:14 to 25-07-2024 17:15
Point of Collection	Near CRF	Date of Receipt :	31-07-2024
Date of Test/Analysis :	31-07-2024 to 03-08-2024	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]	0.14	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.38	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]	118.03	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	27.74	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]	60.66	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]	2.8	TTH/AAQM/09	20.00

Notes :

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No. 24400001411)



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TEST REPORT

Report No./ULR No.	400001411	Date	03-08-2024
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 :	24-07-2024 17:14 to 25-07-2024 17:15
Point of Collection :	Near CRF	Date of Receipt :	31-07-2024
Date of Test/Analysis :	31-07-2024 to 03-08-2024	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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Pujan Mal Yogi
Senior Analyst

Rakesh Maheshwari
Authorized Signatory
(Report No: 400001411)



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TEST REPORT

Report No./ULR No.	24400001412	Date	03-08-2024
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	23-07-2024 10:43 to 24-07-2024 10:44
Point of Collection	Near ANFO Station	Date of Receipt	01-08-2024
Date of Test/Analysis	01-08-2024 to 03-08-2024	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]	330	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]	14.54	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]	128.77	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	30.22	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]	65.8	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]	3.1	TTH/AAQM/09	20.00

Notes :

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Raman Malhotra
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 24400001412)



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TEST REPORT

Report No./ULR No. :	400001412	Date :	03-08-2024
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	23-07-2024 10:43 to 24-07-2024 10:44
Point of Collection :	Near ANFO Station	Date of Receipt :	01-08-2024
Date of Test/Analysis :	01-08-2024 to 03-08-2024	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/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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Purni Mal Yogi
Senior Analyst

Rajesh Maheshwari
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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No.	24400001413	Date	03-08-2024
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	23-07-2024 10:52 to 24-07-2024 10:53
Point of Collection	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt	01-08-2024
Date of Test Analysis	01-08-2024 to 03-08-2024	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]	250	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]	13.23	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]	105.37	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	27.9	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]	63.46	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]	2.7	TTH/AAQM/09	20.00

Notes :

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No. 24400001413)



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TEST REPORT

Report No./ULR No.	400001413	Date :	03-08-2024
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 :	23-07-2024 10:52 to 24-07-2024 10:53
Point of Collection :	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	01-08-2024
Date of Test/Analysis :	01-08-2024 to 03-08-2024	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 Mar Yogi
Senior Analyst

Rajesh Maheshwari
(Report No: 400001413)



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TEST REPORT

Report No./ULR No. :	24400001414	Date :	03-08-2024
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 :	23-07-2024 11:04 to 24-07-2024 11:04
Point of Collection	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	01-08-2024
Date of Test Analysis :	01-08-2024 to 03-08-2024	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]	270	TTH/AAQM/08	4000
3	Lead [microgram/m3]	Less than 0.1	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	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]	105.68	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	25.8	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]	51.32	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	6.8	TTH/AAQM/09	20.00

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Puran Mal Yogi
Senior Analyst

Authorized Laboratory
(Report No: 24400001414)



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TEST REPORT

Report No./ULR No. :	400001414	Date :	03-08-2024
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 :	23-07-2024 11:04 to 24-07-2024 11:04
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	01-08-2024
Date of Test/Analysis :	01-08-2024 to 03-08-2024	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

Prakash Maheshwari
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TEST REPORT

Report No./ULR No.	24400001415	Date :	03-08-2024
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	23-07-2024 11:06 to 24-07-2024 11:06
Point of Collection	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Receipt	01-08-2024
Date of Test/Analysis	01-08-2024 to 03-08-2024	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]	Less than 0.1	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]	106.15	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	25.23	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]	55.24	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	7.1	TTH/AAQM/09	20.00

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Purni Mal Yogi
Sen or Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No. 24400001415)



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TEST REPORT

Report No./ULR No.	400001415	Date :	03-08-2024
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 :	23-07-2024 11:06 to 24-07-2024 11:06
Point of Collection :	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Receipt :	01-08-2024
Date of Test/Analysis :	01-08-2024 to 03-08-2024	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 Mal Yogi
Senior Analyst

Rajesh Maheshwari
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TEST REPORT

Report No./ULR No. :	24400001416	Date :	03-08-2024
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 :	24-07-2024
Metrological Condition	Dump waste	Date of Receipt :	01-08-2024
Date of Test/Analysis :	01-08-2024 to 03-08-2024	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]	290	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.15	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	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]	148.41	IS 5182 (Part 4) : 1999 RA 2019	500
7	Particulate Matter (PM2.5) [microgram/m3]	32.33	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]	80.17	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	10.7	TTH/AAQM/09	20.00

Notes :-

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Puran Mal Yogi
Senior Analyst

Prakash Maheshwari
(Report No. 24400001416)



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TEST REPORT

Report No./ULR No.	400001416	Date :	03-08-2024
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 :	24-07-2024
Metrological Condition :	Dump waste	Date of Receipt :	01-08-2024
Date of Test/Analysis :	01-08-2024 to 03-08-2024	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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Puran Mal Yoni
Senior Analyst

Prakash Maheshwari
(Report No: 400001416)



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TEST REPORT

Report No./ULR No. :	24400001455	Date :	20-08-2024
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 :	06-08-2024 12:48 to 07-08-2024 12:48
Point of Collection	Near Sub Station	Date of Receipt :	10-08-2024
Date of Test/Analysis :	10-08-2024 to 20-08-2024	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

Sl. 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]	160	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]	12.05	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]	92.76	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	16.75	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]	39.14	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	2.7	TTH/AAQM/09	20.00

Notes :-

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Puran Mal Yogi
Senior Analyst

Rakesh Kishore
Authorized Signatory
(Report No: 24400001455)



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TEST REPORT

Report No./ULR No. :	400001455	Date :	20-08-2024
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 :	06-08-2024 12:48 to 07-08-2024 12:48
Point of Collection :	Near Sub Station	Date of Receipt :	10-08-2024
Date of Test/Analysis :	10-08-2024 to 20-08-2024	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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Purah Mal Yogi
Senior Analyst

Rajesh Maheshwari
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(Report No: 400001455)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No.	24400001456	Date :	20-08-2024
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 :	06-08-2024 12:54 to 07-08-2024 12:54
Point of Collection	Near CRF	Date of Receipt :	10-08-2024
Date of Test Analysis :	10-08-2024 to 20-08-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample	-	Sample Collected By :	Rakesh Sharma
Units representative :	Mr Prakash 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]	190	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]	13.75	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]	98.21	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	18.68	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]	46.38	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]	3.6	TTH/AAQM/09	20.00

Notes -

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
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(Report No. 24400001456)



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TEST REPORT

Report No./ULR No. :	400001456	Date :	20-08-2024
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 :	06-08-2024 12:54 to 07-08-2024 12:54
Point of Collection :	Near CRF	Date of Receipt :	10-08-2024
Date of Test/Analysis :	10-08-2024 to 20-08-2024	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 Nogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 400001456)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No :	24400001457	Date :	20-08-2024
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 :	06-08-2024 12:56 to 07-08-2024 12:56
Point of Collection	Near ANFO Station	Date of Receipt :	10-08-2024
Date of Test/Analysis :	10-08-2024 to 20-08-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Client Representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(< 20)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	210	TTH/AAQM/08	4000
3	Lead [microgram/m3]	Less than 0.1	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.26	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]	87.45	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	19.75	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.43	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	41.29	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Cadmium [ng/m3]	4.4	TTH/AAQM/09	20.00

Notes :

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Puran Mathiyogi
Senior Analyst

Rajesh Matheshwari
Authorized Signatory
(Report No: 24400001457)



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TEST REPORT

Report No./ULR No. :	400001457	Date :	20-08-2024
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 :	06-08-2024 12:56 to 07-08-2024 12:56
Point of Collection :	Near ANFO Station	Date of Receipt :	10-08-2024
Date of Test/Analysis :	10-08-2024 to 20-08-2024	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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Piran Mal Vogi
Senior Analyst


Rakesh K. Shrivastava
Authorized Signatory
(Report No: 400001457)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	24400001458	Date :	20-08-2024
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 :	05-08-2024 13:00 to 06-08-2024 13:00
Point of Collection	Lohagal Village [26°31'08.7"N. 74°39'30.8"E]	Date of Receipt :	10-08-2024
Date of Test/Analysis :	10-08-2024 to 20-08-2024	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]	180	TTH/AAQM/08	4000
3	Lead [microgram/m3]	Less than 0.1	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	Less than 10	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) :1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	91.89	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	17.24	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]	39.91	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	Less than 2	TTH/AAQM/09	20.00

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 24400001458)



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TEST REPORT

Report No./ULR No. :	400001458	Date :	20-08-2024
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 :	05-08-2024 13:00 to 06-08-2024 13:00
Point of Collection :	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	10-08-2024
Date of Test/Analysis :	10-08-2024 to 20-08-2024	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
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(Report No: 400001458)



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TEST REPORT

Report No./ULR No. :	24400001459	Date :	20-08-2024
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 :	05-08-2024 13:49 to 06-08-2024 13:50
Point of Collection	Gagwana Village [26°31'44.4"N. 74°43'20.1"E]	Date of Receipt :	10-08-2024
Date of Test/Analysis	10-08-2024 to 20-08-2024	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]	170	TTH/AAQM/08	4000
3	Lead [microgram/m3]	Less than 0.1	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	12.88	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]	71.5	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	14.69	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	33.49	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Cadmium [ng/m3]	Less than 2	TTH/AAQM/09	20.00

Notes :-

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Puran Mar Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No. 24400001459)



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TEST REPORT

Report No./ULR No. :	400001459	Date :	20-08-2024
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	05-08-2024 13:49 to 06-08-2024 13:50
Point of Collection :	Gagwana Village [26°31'44.4"N 74°43'20.1"E]	Date of Receipt :	10-08-2024
Date of Test/Analysis	10-08-2024 to 20-08-2024	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 Mal Yogi
Senior Analyst

Rakesh Sharma
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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No.	24400001460	Date :	20-08-2024
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 :	05-08-2024 13:51 to 06-08-2024 13:52
Point of Collection	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Receipt :	10-08-2024
Date of Test/Analysis :	10-08-2024 to 20-08-2024	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]	150	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]	10.55	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]	72.1	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	17.6	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	38.76	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]	2.5	TTH/AAQM/09	20.00

Notes :

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Raman Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 24400001460)



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TEST REPORT

Report No./ULR No. :	400001460	Date :	20-08-2024
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 :	05-08-2024 13:51 to 06-08-2024 13:52
Point of Collection :	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Receipt :	10-08-2024
Date of Test/Analysis :	10-08-2024 to 20-08-2024	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 K. Sheshwari
Authorized Signatory
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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	24400001539	Date :	06-09-2024
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 :	29-08-2024 15:45 to 30-08-2024 15:45
Point of Collection :	Near Sub Station	Date of Receipt :	31-08-2024
Date of Test/Analysis :	31-08-2024 to 06-09-2024	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]	240	TTH/AAQM/08	4000
3	Lead [microgram/m3]	Less than 0.1	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	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]	94.32	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	23.39	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	7.62	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	51.54	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Cadmium [ng/m3]	4.4	TTH/AAQM/09	20.00

Notes :-

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Puran Mali Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No. 24400001539)



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TEST REPORT

Report No./ULR No.:	400001539	Date :	06-09-2024
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 :	29-08-2024 15:45 to 30-08-2024 15:45
Point of Collection :	Near Sub Station	Date of Receipt :	31-08-2024
Date of Test/Analysis :	31-08-2024 to 06-09-2024	Sampling Plan :	IS 5182 2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

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

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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: 400001539)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No.	24400001540	Date	06-09-2024
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	29-08-2024 15:46 to 30-08-2024 15:46
Point of Collection	Near CRF	Date of Receipt	31-08-2024
Date of Test/Analysis	31-08-2024 to 06-09-2024	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]	210	TTH/AAQM/08	4000
3	Lead [microgram/m3]	Less than 0.1	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.87	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]	95.35	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	20.35	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.59	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	53.42	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	Less than 2	TTH/AAQM/09	20.00

Notes :-

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Puran Maurya
Sen or Analyst

Rajesh Moheshwari
Authorized Signatory
(Report No: 24400001540)



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TEST REPORT

Report No./ULR No. :	400001540	Date :	06-09-2024
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 :	29-08-2024 15:46 to 30-08-2024 15:46
Point of Collection :	Near CRF	Date of Receipt :	31-08-2024
Date of Test/Analysis :	31-08-2024 to 06-09-2024	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 Mahtogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 400001540)



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TEST REPORT

Report No./ULR No :	24400001541	Date :	06-09-2024
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 :	29-08-2024 15:47 to 30-08-2024 15:47
Point of Collection	Near ANFO Station	Date of Receipt :	31-08-2024
Date of Test/Analysis :	31-08-2024 to 06-09-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By	Krushna Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(< 20)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	230	TTH/AAQM/08	4000
3	Lead [microgram/m3]	Less than 0.1	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.36	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]	98.19	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	23.9	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]	50.76	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]	7.7	TTH/AAQM/09	20.00

Notes

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Puran Mal Yogi
Senior Analyst

Rajesh Mishreshwari
Authorized Signatory
(Report No. 24400001541)



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TEST REPORT

Report No./ULR No. :	400001541	Date :	06-09-2024
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 :	29-08-2024 15:47 to 30-08-2024 15:47
Point of Collection :	Near ANFO Station	Date of Receipt :	31-08-2024
Date of Test/Analysis :	31-08-2024 to 06-09-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

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

Rajesh Maheshwari
Authorized Signatory
(Report No: 400001541)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	24400001542	Date :	06-09-2024
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 :	29-08-2024 15:49 to 30-08-2024 15:49
Point of Collection :	Lohagal Village (26°31'08.7"N, 74°39'30.8"E)	Date of Receipt :	31-08-2024
Date of Test/Analysis	31-08-2024 to 06-09-2024	Sampling Plan :	IS 5182 2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krushna Murari
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(< 20)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	160	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]	12.26	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]	89.69	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	20.17	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	43.92	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]	3.8	TTH/AAQM/09	20.00

Notes :-

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Puran Mar Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No. 24400001542)



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TEST REPORT

Report No./ULR No.:	400001542	Date:	06-09-2024
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	29-08-2024 15:49 to 30-08-2024 15:49
Point of Collection	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt:	31-08-2024
Date of Test/Analysis:	31-08-2024 to 06-09-2024	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 Maheshwari
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(Report No. 400001542)



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Email : director/a/teamtesthouse.com,
Email : marketinglab/a/teamtesthouse.com

TEST REPORT

Report No./ULR No.	24400001543	Date :	06-09-2024
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 :	29-08-2024 16:03 to 30-08-2024 16:03
Point of Collection	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	31-08-2024
Date of Test Analysis	31-08-2024 to 06-09-2024	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample	-	Sample Collected By :	Krushna Murari
Units representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

Sl. 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]	190	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]	13.28	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]	97.42	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	20.9	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]	47.34	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	3.2	TTH/AAQM/09	20.00

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Rameshwar
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(Report No. 24400001543)



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TEST REPORT

Report No./ULR No. :	400001543	Date :	06-09-2024
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	29-08-2024 16:03 to 30-08-2024 16:03
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	31-08-2024
Date of Test/Analysis :	31-08-2024 to 06-09-2024	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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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
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(Report No: 400001543)



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TEST REPORT

Report No./ULR No. :	24400001544	Date :	06-09-2024
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 :	29-08-2024 16:04 to 30-08-2024 16:04
Point of Collection	Kayad Village [26°31'44.3"N. 74°41'16.5"E]	Date of Receipt :	31-08-2024
Date of Test/Analysis :	31-08-2024 to 06-09-2024	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]	170	TTH/AAQM/08	4000
3	Lead [microgram/m3]	Less than 0.1	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	13.61	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]	90.91	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	17.26	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.03	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	45.01	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]	5.5	TTH/AAQM/09	20.00

Notes :

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Ajran Malik Yogi
Senior Analyst

Jaish Maheshwari
Authorized Signatory
(Report No. 24400001544)



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TEST REPORT

Report No./ULR No. :	400001544	Date :	06-09-2024
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 :	29-08-2024 16:04 to 30-08-2024 16:04
Point of Collection :	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Receipt :	31-08-2024
Date of Test/Analysis :	31-08-2024 to 06-09-2024	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 Maurya
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: 400001544)



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TEST REPORT

Report No./ULR No. :	400001643	Date :	20-09-2024
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 :	09-09-2024 16:31 to 10-09-2024 16:31
Point of Collection :	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Receipt :	16-09-2024
Date of Test/Analysis :	16-09-2024 to 19-09-2024	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
Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Rajesh Maheshwari
Authorized Signatory
(Report No: 400001643)



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TEST REPORT

Report No /ULR No. :	24400001643	Date :	20-09-2024
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 :	09-09-2024 16:31 to 10-09-2024 16:31
Point of Collection :	Kayad Village [26°31'44.3"N. 74°41'16.5"E]	Date of Receipt :	16-09-2024
Date of Test/Analysis :	16-09-2024 to 19-09-2024	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]	170	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.13	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	13.05	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]	103.68	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	22.86	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]	56.84	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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Puran Mal Yogi
Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 24400001643)



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TEST REPORT

Report No./ULR No.	400001642	Date :	20-09-2024
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 :	09-09-2024 16:30 to 10-09-2024 16:30
Point of Collection	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	16-09-2024
Date of Test Analysis :	16-09-2024 to 19-09-2024	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
*2	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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Aritan Mal Yogi
Senior Analyst


Rajesh Maneshwari
Authorized Signatory
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TEST REPORT

Report No./ULR No. :	24400001642	Date :	20-09-2024
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 :	09-09-2024 16:30 to 10-09-2024 16:30
Point of Collection :	Gagwana Village (26°31'44.4"N, 74°43'20.1"E)	Date of Receipt :	16-09-2024
Date of Test/Analysis :	16-09-2024 to 19-09-2024	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]	180	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.11	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	13.57	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]	89.9	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	22.49	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	Less than 6.0	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	42.63	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]	4.6	TTH/AAQM/09	20.00

Notes :

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
(Report No. 24400001642)



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TEST REPORT


Report No./ULR No.	400001641	Date :	20-09-2024
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 :	09-09-2024 16:28 to 10-09-2024 16:29
Point of Collection :	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	16-09-2024
Date of Test/Analysis :	16-09-2024 to 19-09-2024	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: 400001641)



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TEST REPORT

Report No /ULR No. :	24400001641	Date :	20-09-2024
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 :	09-09-2024 16:28 to 10-09-2024 16:29
Point of Collection :	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	16-09-2024
Date of Test/Analysis :	16-09-2024 to 19-09-2024	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]	160	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]	13.98	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]	87.54	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	17.9	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]	51.37	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]	4.1	TTH/AAQM/09	20.00

Notes :

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Puran
Puran Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: 24400001641)



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TEST REPORT

Report No./ULR No	400001640	Date :	20-09-2024
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 :	10-09-2024 16:27 to 11-09-2024 16:27
Point of Collection	Near ANFO Station	Date of Receipt :	16-09-2024
Date of Test/Analysis	16-09-2024 to 19-09-2024	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
*2	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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Purushottam
Purushottam

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: 400001640)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	24400001640	Date :	20-09-2024
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 :	10-09-2024 16:27 to 11-09-2024 16:27
Point of Collection :	Near ANFO Station	Date of Receipt	16-09-2024
Date of Test/Analysis :	16-09-2024 to 19-09-2024	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]	230	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.13	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.05	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]	92.21	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	22.84	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.86	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	55.25	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]	4.7	TTH/AAQM/09	20.00

Notes :-

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Puran Malviya
Senior Analyst

Rakesh Maheshwari
Authorized Signatory
(Report No: 24400001640)



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RSPCB

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ISO 14001:2015,

ISO 45001:2018 (OH&S)

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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	400001639	Date :	20-09-2024
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 :	10-09-2024 16:26 to 11-09-2024 16:26
Point of Collection :	Near CRF	Date of Receipt :	16-09-2024
Date of Test/Analysis :	16-09-2024 to 19-09-2024	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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P. Singh
Bharan Lal Yogi
Senior Analyst

Rakesh
Rakesh Maneshwari
(Report No: 400001639)



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ISO 9001:2015

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ISO 45001:2018 (OH&S)

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

TEST REPORT

Report No./ULR No.	24400001639	Date :	20-09-2024
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 :	10-09-2024 16:26 to 11-09-2024 16:26
Point of Collection	Near CRF	Date of Receipt :	16-09-2024
Date of Test/Analysis	16-09-2024 to 19-09-2024	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]	210	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]	14.87	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]	85.81	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	26.89	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.99	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	43.73	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]	2.9	TTH/AAQM/09	20.00

Notes

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Puran Mal Yogi
Senior Analyst

Rakesh Maheshwari
Authorized Signatory

(Report No: 24400001639)



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TEST REPORT

Report No./ULR No. :	400001638	Date :	20-09-2024
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 :	10-09-2024 13:59 to 11-09-2024 13:59
Point of Collection :	Near Sub Station	Date of Receipt :	18-09-2024
Date of Test/Analysis :	18-09-2024 to 19-09-2024	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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Purjan
Purjan Mal Yogi

Rajesh Maheshwari
Authorized Signatory
(Report No: 400001638)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	24400001638	Date :	20-09-2024
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 :	10-09-2024 13:59 to 11-09-2024 13:59
Point of Collection :	Near Sub Station	Date of Receipt :	18-09-2024
Date of Test/Analysis :	18-09-2024 to 19-09-2024	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]	220	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]	14.73	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]	98.28	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	24.58	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.75	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	48.9	IS 5182 (Part 23)-2006 RA 2017	100.00
10	Arsenic [ng/m3]	BDL(<2.0)	TTH/AAQM/11	6.00
11	Nickel [ng/m3]	4.3	TTH/AAQM/09	20.00

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Puran Mal Yogi
Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Rajesh Maheshwari
Authorized Signatory
(Report No: 24400001638)



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TEST REPORT


Report No./ULR No. :	400001639	Date :	20-09-2024
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 :	10-09-2024 16:26 to 11-09-2024 16:26
Point of Collection	Near CRF	Date of Receipt :	16-09-2024
Date of Test/Analysis	16-09-2024 to 19-09-2024	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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Purnima Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: 400001639)



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TEST REPORT

Report No./ULR No. :	24400001639	Date :	20-09-2024
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 :	10-09-2024 16:26 to 11-09-2024 16:26
Point of Collection :	Near CRF	Date of Receipt :	16-09-2024
Date of Test/Analysis :	16-09-2024 to 19-09-2024	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]	210	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]	14.87	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]	85.81	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	26.89	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.99	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	43.73	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]	2.9	TTH/AAQM/09	20.00

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Puran Mal Yogi
Senior Analyst

Rajesh Maheeshwari
Authorized Signatory
(Report No. 24400001639)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	24400001777	Date :	05-10-2024
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 :	28-09-2024 15:15 to 29-09-2024 15:16
Point of Collection :	Near Sub Station	Date of Receipt :	01-10-2024
Date of Test/Analysis :	01-10-2024 to 04-10-2024	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]	0.14	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.28	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]	114.06	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	34.63	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.93	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	79.94	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]	2.5	TTH/AAQM/09	20.00

Notes -

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Puram
Puram Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: 24400001777)



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TEST REPORT

Report No./ULR No. :	400001777	Date :	05-10-2024
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 :	28-09-2024 15:15 to 29-09-2024 15:16
Point of Collection :	Near Sub Station	Date of Receipt :	01-10-2024
Date of Test/Analysis :	01-10-2024 to 04-10-2024	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: 400001777)



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

TEST REPORT

Report No./ULR No. :	24400001778	Date :	05-10-2024
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 :	28-09-2024 15:21 to 29-09-2024 15:22
Point of Collection :	Near CRF	Date of Receipt :	01-10-2024
Date of Test/Analysis :	01-10-2024 to 04-10-2024	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]	260	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.13	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.13	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]	146.92	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	37.29	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	6.55	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	78.09	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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Senior Analyst

Authorized Signatory
(Report No: 24400001778)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	400001778	Date :	05-10-2024
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 :	28-09-2024 15:21 to 29-09-2024 15:22
Point of Collection :	Near CRF	Date of Receipt :	01-10-2024
Date of Test/Analysis :	01-10-2024 to 04-10-2024	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 Mei Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 400001778)



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



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

TEST REPORT

Report No./ULR No. :	24400001779	Date :	05-10-2024
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 :	28-09-2024 15:28 to 29-09-2024 15:28
Point of Collection :	Near ANFO Station	Date of Receipt :	01-10-2024
Date of Test/Analysis :	01-10-2024 to 04-10-2024	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]	0.15	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.73	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]	140.61	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	34.86	IS 5182 (Part 24) : 2019	60.00
8	Sulphur Dioxide [microgram/m3]	7.03	IS 5182 (Part 2) : 2001 RA 2017	80.00
9	Particulate Matter (PM 10) [microgram/m3]	77.61	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]	4.3	TTH/AAQM/09	20.00

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 24400001779)



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TEST REPORT

Report No./ULR No. :	400001779	Date :	05-10-2024
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 :	28-09-2024 15:28 to 29-09-2024 15:28
Point of Collection :	Near ANFO Station	Date of Receipt :	01-10-2024
Date of Test/Analysis :	01-10-2024 to 04-10-2024	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

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Senior Analyst


Rajesh Maheshwari
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(Report No: 400001779)



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TEST REPORT

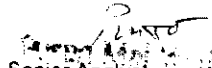
Report No./ULR No. :	24400001780	Date :	05-10-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	27-09-2024 15:33 to 28-09-2024 15:33
Point of Collection	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt	01-10-2024
Date of Test/Analysis :	01-10-2024 to 04-10-2024	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]	210	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.13	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	13.77	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(< 20)	IS 5182 (Part-9) :1974	100.00
6	Suspended Particulate Matter (SPM) [microgram/m3]	124.16	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	24.86	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]	63.67	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]	4.4	TTH/AAQM/09	20.00

Notes :-

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Senior Analyst


Authorized Signatory
(Report No. 24400001780)



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TEST REPORT

Report No./ULR No. :	400001780	Date :	05-10-2024
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 :	27-09-2024 15:33 to 28-09-2024 15:33
Point of Collection :	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	01-10-2024
Date of Test/Analysis :	01-10-2024 to 04-10-2024	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 Mal Yogi
Senior Analyst


Rajesh Maheshwari
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(Report No: 400001780)



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TEST REPORT

Report No./ULR No. :	24400001781	Date :	05-10-2024
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 :	27-09-2024 15:35 to 28-09-2024 15:35
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	01-10-2024
Date of Test/Analysis :	01-10-2024 to 04-10-2024	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]	230	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.1	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	13.63	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]	118.87	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	25.74	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]	64.21	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]	6.9	TTH/AAQM/09	20.00

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 24400001781)



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TEST REPORT

Report No./ULR No. :	400001781	Date :	05-10-2024
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 :	27-09-2024 15:35 to 28-09-2024 15:35
Point of Collection :	Gagwana Village [26°31'44.4"N. 74°43'20.1"E]	Date of Receipt :	01-10-2024
Date of Test/Analysis :	01-10-2024 to 04-10-2024	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

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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	24400001782	Date :	05-10-2024
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 :	27-09-2024 15:37 to 28-09-2024 15:37
Point of Collection :	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Receipt :	01-10-2024
Date of Test/Analysis :	01-10-2024 to 04-10-2024	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]	190	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]	13.53	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]	112.67	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
7	Particulate Matter (PM2.5) [microgram/m3]	20.25	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]	60.61	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]	6.6	TTH/AAQM/09	20.00

Notes -

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Purni Mai Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 24400001782)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	400001782	Date :	05-10-2024
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 :	27-09-2024 15:37 to 28-09-2024 15:37
Point of Collection :	Kayad Village [26°31'44.3"N, 74°41'16.5"E]	Date of Receipt :	01-10-2024
Date of Test/Analysis :	01-10-2024 to 04-10-2024	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

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Senior Analyst

Rajesh Maheshwari
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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	24600000514	Date :	06-05-2024
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 :	29-04-2024
Point of Collection	Kayad Village [26°31'44."N, 74°41'16.5"E]	Date of Receipt :	01-05-2024
Date of Test/Analysis :	01-05-2024 to 04-05-2024	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)]	51.8	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	42.7	IS 9989	45

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: 24600000514)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	400000785.	Date :	06-05-2024
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 :	29-04-2024 15:54 to 30-04-2024 15:54
Point of Collection :	Village Kayad	Date of Receipt :	01-05-2024
Date of Test/Analysis :	01-05-2024 to 04-05-2024	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
6	Benzene [microgram/m3]	BDL(<1.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
7	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00

Notes :-

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Senior Analyst


Authorized Signatory
(Report No: 400000785.)



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TEST REPORT

Report No./ULR No. :	24600000515	Date :	06-05-2024
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 :	29-04-2024
Point of Collection	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	01-05-2024
Date of Test/Analysis :	01-05-2024 to 04-05-2024	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

Sl. No.	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	50.2	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	40.7	IS 9989	45

Notes -

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Senior Analyst

Authorised Signatory
(Report No: 24600000515)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	24600000516	Date :	06-05-2024
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 :	29-04-2024
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	01-05-2024
Date of Test/Analysis :	01-05-2024 to 04-05-2024	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)]	50.3	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	41.5	IS 9989	45

Notes :-

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Sunil Kumar
Senior Analyst


Authorized Signatory
(Report No: 24600000516)



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TEST REPORT

Report No./ULR No. :	24600000517	Date :	06-05-2024
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 :	30-04-2024
Point of Collection	Sub Station	Date of Receipt :	01-05-2024
Date of Test/Analysis :	01-05-2024 to 04-05-2024	Sampling Plan :	TTH/NOISE/01
Quantity of Sample	-	Sample Collected By :	Krashtra Murari
Units 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)]	59.7	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	50.6	IS 9989	65

Notes -

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Senior Analyst

Authorized Signatory
(Report No: 24600000517)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

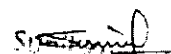
Report No./ULR No. :	24600000518	Date :	06-05-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	30-04-2024
Point of Collection :	N1 South West Corner of Mine Boundary	Date of Receipt :	01-05-2024
Date of Test/Analysis :	01-05-2024 to 04-05-2024	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

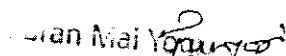
RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	54.7	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	45.4	IS 9989	65

Notes :-

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Senior Analyst


Authorized Signatory
(Report No: 24600000518)



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TEST REPORT

Report No./ULR No. :	24600000519	Date :	06-05-2024
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 :	30-04-2024
Point of Collection	N2 East Side Boundary Near West Dump	Date of Receipt :	01-05-2024
Date of Test/Analysis :	01-05-2024 to 04-05-2024	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

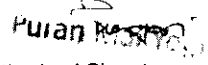
RESULTS

S.No.	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	62.7	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	53.5	IS 9989	65

Notes :

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Senior Analyst


Authorized Signatory
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TEST REPORT

Report No./ULR No. :	24600000520	Date :	06-05-2024
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 :	30-04-2024
Point of Collection :	N3 North East Corner of Mine Boundary	Date of Receipt :	01-05-2024
Date of Test/Analysis :	01-05-2024 to 04-05-2024	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

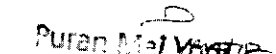
RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	57.0	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	48.1	IS 9989	65

Notes :-

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Sunil Kumar
Senior Analyst


Purnima Vohra
Authorized Signatory
(Report No: 24600000520)

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TEST REPORT

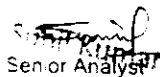
Report No./ULR No. :	24600000521	Date :	06-05-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	30-04-2024
Point of Collection :	N4 North West Corner of Mine Boundary	Date of Receipt :	01-05-2024
Date of Test/Analysis :	01-05-2024 to 04-05-2024	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

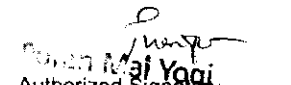
RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	64.7	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	55.6	IS 9989	65

Notes :

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Senior Analyst


Authorized Signatory
(Report No: 24600000521)



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TEST REPORT

Report No./ULR No. :	24600000522	Date :	06-05-2024
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 :	30-04-2024
Point of Collection :	N5 West Side Towards Kayad Village	Date of Receipt :	01-05-2024
Date of Test/Analysis :	01-05-2024 to 04-05-2024	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

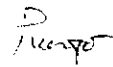
RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	53.8	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	46.7	IS 9989	65

Notes :-

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Senior Analyst


Authorized Signatory
(Report No: 24600000522)



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TEST REPORT

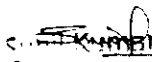
Report No./ULR No. :	24600000523	Date :	06-05-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	30-04-2024
Point of Collection	N6 South East Corner	Date of Receipt :	01-05-2024
Date of Test/Analysis :	01-05-2024 to 04-05-2024	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

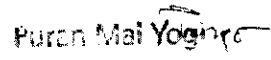
RESULTS

S. No.	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	56.1	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	47.9	IS 9989	65

Notes :

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Senior Analyst


Purni Mai Yagnik
Authorized Signatory
(Report No: 24600000523)



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TEST REPORT

Report No./ULR No. :	24600000594	Date :	14-05-2024
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 :	08-05-2024
Point of Collection	Kayad Village [26°31'44."N, 74°41'16.5"E]	Date of Receipt :	11-05-2024
Date of Test/Analysis :	11-05-2024 to 14-05-2024	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
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
2	Noise Level (Day Time) : Leq [dB(A)]	49.5	IS 9989	55
	Noise Level (Night Time) : Leq [dB(A)]	40.7	IS 9989	45

Notes :-

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Puran Mishra
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 24600000594)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

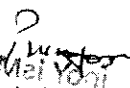
Report No./ULR No. :	24600000595	Date :	14-05-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	08-05-2024
Point of Collection :	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	11-05-2024
Date of Test/Analysis :	11-05-2024 to 14-05-2024	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
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)]	51.5	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	41.6	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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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.


Puran
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: 24600000595)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	24600000596	Date :	14-05-2024
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 :	08-05-2024
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	11-05-2024
Date of Test/Analysis :	11-05-2024 to 14-05-2024	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	50.5	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	41.7	IS 9989	45

Notes :-

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Puran K. Sharma
Senior Analyst

Majes Patel
Authorized Signatory
(Report No: 24600000596)



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TEST REPORT

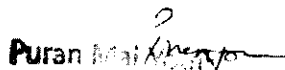
Report No./ULR No. :	24600000597	Date :	14-05-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	08-05-2024
Point of Collection :	Chatri Village [26°33'32.1"N, 74°42'58.4"E]	Date of Receipt :	11-05-2024
Date of Test/Analysis :	11-05-2024 to 14-05-2024	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

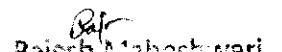
RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	47.8	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	39.5	IS 9989	45

Notes :-

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Puran K. Singh
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: 24600000597)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	24600000598	Date :	14-05-2024
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 :	09-05-2024
Point of Collection :	N1 South West Corner of Mine Boundary	Date of Receipt :	11-05-2024
Date of Test/Analysis :	11-05-2024 to 14-05-2024	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
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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(Signature)
Senior Analyst

(Signature)
Authorized Signatory
(Report No: 24600000598)



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TEST REPORT


Report No./ULR No. :	24600000599	Date :	14-05-2024
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 :	09-05-2024
Point of Collection :	N2 East Side Boundary Near West Dump	Date of Receipt :	11-05-2024
Date of Test/Analysis :	11-05-2024 to 14-05-2024	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

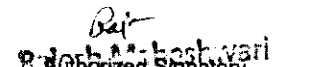
RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	64.0	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	55.7	IS 9989	65

Notes :-

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Senior Analyst


Authorized Signatory
(Report No: 24600000599)

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TEST REPORT

Report No./ULR No. :	24600000600	Date :	14-05-2024
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 :	09-05-2024
Point of Collection :	N3 North East Corner of Mine Boundary	Date of Receipt :	11-05-2024
Date of Test/Analysis :	11-05-2024 to 14-05-2024	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	60.7	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	52.1	IS 9989	65

Notes :-

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Puran Mishra
Senior Analyst

Banwari Lal Kumawat
Authorized Signatory
(Report No: 24600000600)



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TEST REPORT

Report No./ULR No. :	24600000601	Date :	14-05-2024
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 :	09-05-2024
Point of Collection :	N4 North West Corner of Mine Boundary	Date of Receipt :	11-05-2024
Date of Test/Analysis :	11-05-2024 to 14-05-2024	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
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)]	63.7	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	54.6	IS 9989	65

Notes :-

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Puran Ma: Yogi
Senior Analyst

Rajesh Bhatnagar
Authorized Signatory
(Report No: 24600000601)



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TEST REPORT

Report No./ULR No. :	24600000602	Date :	14-05-2024
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 :	09-05-2024
Point of Collection	N5 West Side Towards Kayad Village	Date of Receipt :	11-05-2024
Date of Test/Analysis :	11-05-2024 to 14-05-2024	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
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)]	60.1	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	51.7	IS 9989	65

Notes -

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Saran Arora, Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: 24600000602)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	24600000603	Date :	14-05-2024
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 :	09-05-2024
Point of Collection :	N6 South East Corner	Date of Receipt :	11-05-2024
Date of Test/Analysis :	11-05-2024 to 14-05-2024	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
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)]	63.4	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	54.6	IS 9989	65

Notes :-

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Puran Arora

Senior Analyst

Rajesh Kumar
Authorized Signatory
(Report No: 24600000603)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	24600000703	Date :	21-06-2024
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 :	10-06-2024 16:40 to 11-06-2024 16:40
Point of Collection :	Kayad Village [26°31'44."N, 74°41'16.5"E]	Date of Receipt :	15-06-2024
Date of Test/Analysis :	15-06-2024 to 18-06-2024	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

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

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: 24600000703)



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TEST REPORT

Report No./ULR No. :	24600000704	Date :	21-06-2024
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 :	10-06-2024 16:41 to 11-06-2024 16:41
Point of Collection :	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	15-06-2024
Date of Test/Analysis :	15-06-2024 to 18-06-2024	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	50.8	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	41.7	IS 9989	45

Notes :-

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

Sanjay Kumar
Senior Analyst

Sanjay Kumar
Authorized Signatory
(Report No: 24600000704)



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

TEST REPORT

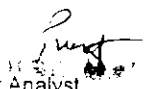
Report No./ULR No. :	24600000705	Date :	21-06-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	10-06-2024 16:41 to 11-06-2024 16:42
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	15-06-2024
Date of Test/Analysis :	15-06-2024 to 18-06-2024	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)]	51.3	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	42.5	IS 9989	45

Notes :-

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Senior Analyst


Authorized Signatory
(Report No: 24600000705)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	24600000706	Date :	21-06-2024
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 :	10-06-2024 16:43 to 11-06-2024 16:43
Point of Collection :	Sub Station	Date of Receipt :	15-06-2024
Date of Test/Analysis :	15-06-2024 to 18-06-2024	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

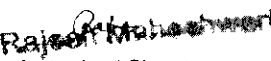
RESULTS

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

Notes :-

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Pooja Yadav
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: 24600000706)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	24600000707	Date :	21-06-2024
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 :	11-06-2024 16:43 to 12-06-2024 16:44
Point of Collection :	N1 South West Corner of Mine Boundary	Date of Receipt :	15-06-2024
Date of Test/Analysis :	15-06-2024 to 18-06-2024	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)]	61.2	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	52.2	IS 9989	65

Notes :-

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Senior Analyst

Authorized Signatory

(Report No: 24600000707)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	24600000708	Date :	21-06-2024
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 :	11-06-2024 16:44 to 12-06-2024 16:44
Point of Collection	N2 East Side Boundary Near West Dump	Date of Receipt :	15-06-2024
Date of Test/Analysis :	15-06-2024 to 18-06-2024	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	65.7	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	54.5	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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Purnima Yadav
Senior Analyst

Authorized Signatory
(Report No: 24600000708)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	24600000709	Date :	21-06-2024
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 :	11-06-2024 16:47 to 12-06-2024 16:47
Point of Collection :	N3 North East Corner of Mine Boundary	Date of Receipt :	15-06-2024
Date of Test/Analysis :	15-06-2024 to 18-06-2024	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

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

Notes :-

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Senior Analyst

Authorized Signatory
(Report No. 24600000709)



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TEST REPORT

Report No./ULR No.:	24600000710	Date :	21-06-2024
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 :	11-06-2024 16:49 to 12-06-2024 16:49
Point of Collection :	N4 North West Corner of Mine Boundary	Date of Receipt :	15-06-2024
Date of Test/Analysis :	15-06-2024 to 18-06-2024	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

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

Notes :-

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Senior Analyst

Rajesh Kumar
Authorized Signatory
(Report No: 24600000710)



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Email : marketinglab@teamtesthouse.com

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Report No./ULR No. :	24600000710	Date :	21-06-2024
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 :	11-06-2024 16:49 to 12-06-2024 16:49
Point of Collection	N4 North West Corner of Mine Boundary	Date of Receipt :	15-06-2024
Date of Test/Analysis :	15-06-2024 to 18-06-2024	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

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

Notes :

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[Signature]
Senior Analyst

[Signature]
Authorized Signatory
(Report No: 24600000710)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	24600000711	Date :	21-06-2024
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 :	11-06-2024 16:49 to 12-06-2024 16:49
Point of Collection	N5 West Side Towards Kayad Village	Date of Receipt :	15-06-2024
Date of Test/Analysis :	15-06-2024 to 18-06-2024	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)]	61.7	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	52.9	IS 9989	65

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: 24600000711)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

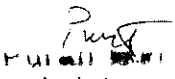
Report No./ULR No.:	24600000712	Date :	21-06-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Underground Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	11-06-2024 16:51 to 12-06-2024 16:51
Point of Collection	N6 South East Corner	Date of Receipt :	15-06-2024
Date of Test Analysis :	15-06-2024 to 18-06-2024	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

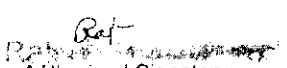
RESULTS

Sr 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)]	54.7	IS 9989	65

Notes :-

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Senior Analyst


Authorized Signatory
(Report No: 24600000712)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No.	24600000943	Date	18-07-2024
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	11-07-2024 16:34 to 12-07-2024 16:34
Point of Collection	N6 South East Corner	Date of Receipt	15-07-2024
Date of Test/Analysis	15-07-2024 to 17-07-2024	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)]	62.7	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	53.5	IS 9989	65

Notes -

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P. Maheshwari
Senior Analyst

Rakesh Maheshwari
Authorized Signatory
(Report No. 24600000943)



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TEST REPORT

Report No./ULR No.:	24600000942	Date :	18-07-2024
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 :	11-07-2024 16:33 to 12-07-2024 16:33
Point of Collection :	N5 West Side Towards Kayad Village	Date of Receipt :	15-07-2024
Date of Test/Analysis :	15-07-2024 to 17-07-2024	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)]	61.9	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	52.8	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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P. M. Yogi
Senior Analyst
P. M. Yogi

Rakesh Sharma
Authorized Signatory
(Report No: 24600000942)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	24600000941	Date :	18-07-2024
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 :	11-07-2024 16:32 to 12-07-2024 16:32
Point of Collection :	N4 North West Corner of Mine Boundary	Date of Receipt :	15-07-2024
Date of Test/Analysis :	15-07-2024 to 17-07-2024	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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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Puran Mal Yadav
Senior Analyst
Puran Mal Yadav

Rakesh Maheshwari
Authorized Signatory
(Report No: 24600000941)



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TEST REPORT

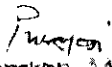
Report No./ULR No. :	24600000940	Date :	18-07-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Underground Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	11-07-2024 16:31 to 12-07-2024 16:31
Point of Collection :	N3 North East Corner of Mine Boundary	Date of Receipt :	15-07-2024
Date of Test/Analysis :	15-07-2024 to 17-07-2024	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)]	61.1	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	52.4	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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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.


Senior Analyst **Mohit Yadav**


Authorized Signatory
(Report No: 24600000940)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No.	24600000939	Date :	18-07-2024
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 :	11-07-2024 16:28 to 12-07-2024 16:29
Point of Collection	N2 East Side Boundary Near West Dump	Date of Receipt :	15-07-2024
Date of Test/Analysis :	15-07-2024 to 17-07-2024	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)]	57.8	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	50.2	IS 9989	65

Notes :-

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

Raj
Authorized Signatory
(Report No: 24600000939)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	24600000938	Date :	18-07-2024
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 :	11-07-2024 16:27 to 12-07-2024 16:27
Point of Collection :	N1 South West Corner of Mine Boundary	Date of Receipt :	15-07-2024
Date of Test/Analysis :	15-07-2024 to 17-07-2024	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)]	60.3	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	51.4	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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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Purnima Mohi Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 24600000938)



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TEST REPORT

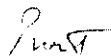
Report No./ULR No.:	24600000937	Date :	18-07-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	10-07-2024 16:26 to 11-07-2024 16:26
Point of Collection	Chatni Village [26°33'32.1"N, 74°42'58.4"E]	Date of Receipt :	15-07-2024
Date of Test/Analysis :	15-07-2024 to 17-07-2024	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)]	53.3	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	40.5	IS 9989	45

Notes :-

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Senior Analyst M. L. Yagi


Rakesh Maheshwari
Authorized Signatory
(Report No: 24600000937)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	24600000936	Date :	18-07-2024
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 :	10-07-2024 16:25 to 11-07-2024 16:25
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	15-07-2024
Date of Test/Analysis :	15-07-2024 to 17-07-2024	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)]	52.4	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	41.3	IS 9989	45

Notes :-

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Prakash
Senior Analyst M. A. Yogi

Sanjay
Authorized Signatory
(Report No: 24600000936)



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TEST REPORT


Report No./ULR No. :	24600001089	Date :	20-08-2024
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 :	05-08-2024 13:56 to 06-08-2024 13:56
Point of Collection :	Kayad Village [26°31'44."N 74°41'16.5"E]	Date of Receipt :	10-08-2024
Date of Test/Analysis :	10-08-2024 to 20-08-2024	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)]	53.8	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	42.9	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 K. Sheshwari
Authorized Signatory
(Report No: 24600001089)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	24600001090	Date :	20-08-2024
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 :	05-08-2024 14:00 to 06-08-2024 14:00
Point of Collection :	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	10-08-2024
Date of Test/Analysis :	10-08-2024 to 20-08-2024	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)]	51.9	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	41.7	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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Puran Mayagi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 24600001090)



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TEST REPORT

Report No./ULR No. :	24600001091	Date :	20-08-2024
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 :	05-08-2024 14:07 to 06-08-2024 14:07
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	10-08-2024
Date of Test/Analysis :	10-08-2024 to 20-08-2024	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)]	41.8	IS 9989	45

Notes -

- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither intended 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.
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Purnan Mal Yogi
Senior Analyst

Rakesh Malhotra
Authorized Signatory
(Report No: 24600001091)



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TEST REPORT

Report No./ULR No. :	24600001092	Date :	20-08-2024
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 :	06-08-2024 14:15 to 07-08-2024 14:15
Point of Collection :	near sub station	Date of Receipt :	10-08-2024
Date of Test/Analysis :	10-08-2024 to 20-08-2024	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)]	61.4	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	52.5	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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Anshu Malhotra
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: 24600001092)



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TEST REPORT

Report No./ULR No. :	24600001093	Date :	20-08-2024
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 :	06-08-2024 14:20 to 07-08-2024 14:21
Point of Collection :	N1 South West Corner of Mine Boundary	Date of Receipt :	10-08-2024
Date of Test/Analysis :	10-08-2024 to 20-08-2024	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)]	60.6	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	51.7	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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Puran Maheshwari
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 24600001093)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	24600001094	Date :	20-08-2024
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 :	06-08-2024 14:24 to 07-08-2024 14:24
Point of Collection :	N2 East Side Boundary Near West Dump	Date of Receipt :	10-08-2024
Date of Test/Analysis :	10-08-2024 to 20-08-2024	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)]	62.4	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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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: 24600001094)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	24600001095	Date :	20-08-2024
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 :	06-08-2024 14:27 to 07-08-2024 14:28
Point of Collection	N3 North East Corner of Mine Boundary	Date of Receipt	10-08-2024
Date of Test/Analysis :	10-08-2024 to 16-08-2024	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)]	51.3	IS 9989	65

Notes -

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Arun Mal Yoni
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 24600001095)



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TEST REPORT

Report No./ULR No. :	24600001096	Date :	20-08-2024
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 :	06-08-2024
Point of Collection :	N4 North West Corner of Mine Boundary	Date of Receipt :	10-08-2024
Date of Test/Analysis :	10-08-2024 to 16-08-2024	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)]	61.7	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	52.8	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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Puran Mal Yogi
Senior Analyst

Rajesh Mishra
Authorized Signatory
(Report No: 24600001096)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	24600001097	Date :	20-08-2024
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 :	06-08-2024 14:33 to 07-08-2024 14:33
Point of Collection :	N5 West Side Towards Kayad Village	Date of Receipt :	10-08-2024
Date of Test/Analysis :	10-08-2024 to 16-08-2024	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)]	61.7	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	52.6	IS 9989	65

Notes :-

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Puran Mal Yoni
Senior Analyst

Rakesh Kumar
Authorized Signatory
(Report No: 24600001097)



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RSPCB	ISO 9001:2015,	ISO 14001:2015,	ISO 45001:2018 (OH&S)	JDA/UDH
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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	24600001098	Date :	20-08-2024
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 :	06-08-2024 14:36 to 07-08-2024 14:36
Point of Collection :	N6 South East Corner	Date of Receipt :	10-08-2024
Date of Test/Analysis :	10-08-2024 to 16-08-2024	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)]	59.6	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	50.5	IS 9989	65

Notes :-

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Anirudh Mahapatra
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: 24600001098)



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TEST REPORT

Report No./ULR No. :	24600001213	Date :	20-09-2024
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 :	10-09-2024 16:20 to 11-09-2024 16:20
Point of Collection	N6 South East Corner	Date of Receipt :	16-09-2024
Date of Test/Analysis :	16-09-2024 to 19-09-2024	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)]	51.7	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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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwari
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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	24600001212	Date :	19-09-2024
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 :	10-09-2024 16:14 to 11-09-2024 16:14
Point of Collection :	N5 West Side Towards Kayad Village	Date of Receipt :	16-09-2024
Date of Test/Analysis :	16-09-2024 to 19-09-2024	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)]	59.9	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	50.8	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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Puran Mal
Puran Mal Yogi
Senior Analyst

Rajesh Moheshwari
Rajesh Moheshwari
(Report No: 24600001212)



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TEST REPORT

Report No./ULR No. :	24600001211	Date :	19-09-2024
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 :	10-09-2024 16:13 to 11-09-2024 16:13
Point of Collection	N4 North West Corner of Mine Boundary	Date of Receipt :	16-09-2024
Date of Test/Analysis :	16-09-2024 to 19-09-2024	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)]	62.2	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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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
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(Report No: 24600001211)



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TEST REPORT

Report No./ULR No. :	24600001210	Date :	19-09-2024
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 :	10-09-2024 16:11 to 11-09-2024 16:11
Point of Collection :	N3 North East Corner of Mine Boundary	Date of Receipt :	16-09-2024
Date of Test/Analysis :	16-09-2024 to 19-09-2024	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)]	61.1	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	52.9	IS 9989	65

Notes :-

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Rajesh Maheshwari
Rajesh Maheshwari
Senior Analyst

Rajesh Maheshwari
Rajesh Maheshwari
Authorized Signatory
(Report No: 24600001210)



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TEST REPORT

Report No./ULR No. :	24600001209	Date :	19-09-2024
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 :	10-09-2024 16:10 to 11-09-2024 16:10
Point of Collection :	N2 East Side Boundary Near West Dump	Date of Receipt :	16-09-2024
Date of Test/Analysis :	16-09-2024 to 19-09-2024	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)]	59.9	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	50.8	IS 9989	65

Notes :

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
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(Report No: 24600001209)



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TEST REPORT

Report No./ULR No	24600001208	Date :	19-09-2024
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 :	10-09-2024 16:07 to 11-09-2024 16:08
Point of Collection :	N1 South West Corner of Mine Boundary	Date of Receipt :	16-09-2024
Date of Test/Analysis :	16-09-2024 to 19-09-2024	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)]	60.7	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	51.6	IS 9989	65

Notes -

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Purnan Mal Yogi
Senior Analyst

Rajesh Maheshwari
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(Report No: 24600001208)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	24600001207	Date :	19-09-2024
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 :	09-09-2024 16:05 to 10-09-2024 16:06
Point of Collection :	Chatri Village [26°33'32.1"N, 74°42'58.4"E]	Date of Receipt :	16-09-2024
Date of Test/Analysis :	16-09-2024 to 19-09-2024	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)]	51.2	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	41.3	IS 9989	45

Notes :

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Senior Analyst

Rajesh Maheshwari
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TEST REPORT

Report No./ULR No. :	24600001206	Date :	19-09-2024
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 :	09-09-2024 16:04 to 10-09-2024 16:04
Point of Collection :	Gagwana Village [26°31'44.4"N, 74°43'20.1"E]	Date of Receipt :	16-09-2024
Date of Test/Analysis :	16-09-2024 to 19-09-2024	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)]	50.7	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	40.6	IS 9989	45

Notes :

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Purni Mal Yogi
Senior Analyst

Rajesh Maheshwari
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TEST REPORT

Report No./ULR No. :	24600001205	Date :	19-09-2024
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 :	09-09-2024 16:03 to 10-09-2024 16:03
Point of Collection :	Lohagal Village [26°31'08.7"N, 74°39'30.8"E]	Date of Receipt :	16-09-2024
Date of Test/Analysis :	16-09-2024 to 19-09-2024	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)]	52.4	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	41.5	IS 9989	45

Notes :-

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Puran Mal
Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Rajesh Maheshwari
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(Report No: 24600001205)



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TEST REPORT

Report No./ULR No. :	24600001204	Date :	19-09-2024
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 :	09-09-2024 16:01 to 10-09-2024 16:01
Point of Collection	Kayad Village [26°31'44."N, 74°41'16.5"E]	Date of Receipt :	16-09-2024
Date of Test/Analysis	16-09-2024 to 19-09-2024	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)]	51.9	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	41.8	IS 9989	45

Notes -

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Purni Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 24600001204)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

ReportNo./ULR No. :	200001083	Date :	24-06-2024
Issued To :	M/SHindusthanZincLimited(KayadMines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Typeofsample/ Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	31-05-2024
Point of Collection :	Mine Water	Date of Receipt :	08-06-2024
Date of Test/Analysis:	08-06-2024to18-06-2024	Sampling Plan :	APHA 2017 : 1060
Quantityof Sample :	2 ltr.	SampleCollected By :	Sitaram jangid
Unit's representative:	Mr Prakash Sharma	Conditionof Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Gross Alpha [Bq/l]	BDL	IS: 14194(Part-2) 2022
2	Gross Beta [Bq/l]	BDL	IS: 14194(Part-1) 2020

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Sumit Kumar


Rajesh Maheshwari
(Report No: 200001083)



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TEST REPORT

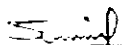
Report No./ULR No. :	24200000803	Date :	24-04-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	11-04-2024
Point of Collection :	Mine Water-1st	Date of Receipt :	16-04-2024
Date of Test/Analysis :	16-04-2024 to 24-04-2024	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr.	Sample Collected By :	kishan 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]	3870	2540- C , APHA 24th Edition	Not Specified
2	Total Solids [mg/l]	3901	2540-B , APHA 24th Edition	-
3	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]	846.15	2340- C , APHA 24th Edition	-
6	pH	7.36	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

Note:

Continue to next page...


Sunil Kumar


Rajesh Maheshwari



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
RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
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]	0.16	3111-B, APHA 24th Edition	3.0
15	Zinc [mg/l]	2.53	3111-B, APHA 24th Edition	5.0
16	Alkalinity - T [mg/l]	70.04	2320-B, APHA 24th Edition	-
17	Magnesium [mg/l]	55.19	3500-Mg-B, APHA 24th Edition	-

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Senior Analyst


Authorized Signatory
(Report No: 24200000803)



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TEST REPORT

Report No./ULR No. :	200000803	Date :	24-04-2024
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 :	11-04-2024
Point of Collection :	Mine Water-1st	Date of Receipt :	16-04-2024
Date of Test/Analysis :	16-04-2024 to 24-04-2024	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr.	Sample Collected By :	kishan 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]	488.15	4500- Cl- B , APHA 24th Edition	-
19	Sulphate [mg/l]	771.43	4500-SO4-E , APHA 24th Edition	Not Specified

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Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: 200000803)



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TEST REPORT

Report No./ULR No. :	24200000965	Date :	22-05-2024
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 :	10-05-2024
Point of Collection :	Mine Water-1st	Date of Receipt :	11-05-2024
Date of Test/Analysis :	11-05-2024 to 22-05-2024	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2ltr	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS			
S.No	Parameters	Observed Value	Testing Protocol
1	Total Dissolved Solids [mg/l]	3912	2540- C , APHA 24th Edition
2	Total Solids [mg/l]	3946	2540-B , APHA 24th Edition
3	Suspended Solids [mg/l]	34	2540-D , APHA 24th Edition
4	Cyanide [mg/l]	Less than 0.04	4500- CN D , APHA 24th Edition
5	Hardness (total) [mg/l]	903.85	2340- C , APHA 24th Edition
6	pH	7.39	4500 H+B , APHA 24th Edition
7	Arsenic [mg/l]	Less than 0.01	3114- B , APHA 24th Edition
8	Cadmium [mg/l]	0.11	3111-B, APHA 24th Edition
			Limits as per Environment protection rules, 1986
			Not Specified
			100
			0.2
			5.5 - 9.0
			0.2
			2.0

Note:

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Sush Kumar

Rajesh Mishra



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Email : marketinglab@teamtesthouse.com


RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
9	Arsenic [mg/l]	Less than 0.01	3114- B , APHA 24th Edition	0.2
10	Cadmium [mg/l]	0.11	3111-B, APHA 24th Edition	2.0
11	Cobalt [mg/l]	Less than 0.01	3111-B, APHA 24th Edition	-
12	Copper [mg/l]	Less than 0.05	3111-B, APHA 24th Edition	3.0
13	Iron [mg/l]	Less than 0.5	3111-B, APHA 24th Edition	3.0
14	Lead [mg/l]	Less than 0.01	3111-B, APHA 24th Edition	0.1
15	Mercury [mg/l]	Less than 0.01	3112- B , APHA 24th Edition	0.01
16	Nickel [mg/l]	0.19	3111-B, APHA 24th Edition	3.0
17	Zinc [mg/l]	2.40	3111-B, APHA 24th Edition	5.0
18	Alkalinity - T [mg/l]	79.56	2320-B , APHA 24th Edition	-
19	Magnesium [mg/l]	62.73	3500-Mg-B , APHA 24th Edition	-

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Senior Analyst


Authorized Signatory
(Report No: 24200000965)



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TEST REPORT

Report No./ULR No. :	200000965	Date :	22-05-2024
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 :	10-05-2024
Point of Collection :	Mine Water-1st	Date of Receipt :	11-05-2024
Date of Test/Analysis :	11-05-2024 to 22-05-2024	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2ltr	Sample Collected By :	Banwari Lal Kumawat
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]	507.29	4500- Cl- B , APHA 24th Edition	-
19	Sulphate [mg/l]	801.57	4500-SO4-E , APHA 24th Edition	Not Specified

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Senior Analyst


Rajesh Maheshwari
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(Report No: 200000965)



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TEST REPORT

Report No./ULR No. :	24200001130	Date :	24-06-2024
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 :	12-06-2024
Point of Collection :	Mine Water-1st	Date of Receipt :	15-06-2024
Date of Test/Analysis :	15-06-2024 to 24-06-2024	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]	3876	2540- C , APHA 24th Edition	Not Specified
2	Total Solids [mg/l]	3900	2540-B , APHA 24th Edition	-
3	Suspended Solids [mg/l]	24	2540-D , APHA 24th Edition	100
4	Cyanide [mg/l]	Less than 0.04	4500- CN D , APHA 24th Edition	0.2
5	Hardness (total) [mg/l]	865.38	2340- C , APHA 24th Edition	-
6	pH	7.52	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

Note.

Continue to next page...

Rajesh
Rajesh Maheshwari



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Email : marketinglab@teamtesthouse.com

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
9	Cobalt [mg/l]	Less than 0.01	3111-B, APHA 24th Edition	-
10	Copper [mg/l]	Less than 0.05	3111-B, APHA 24th Edition	3.0
11	Iron [mg/l]	Less than 0.5	3111-B, APHA 24th Edition	3.0
12	Lead [mg/l]	Less than 0.01	3111-B, APHA 24th Edition	0.1
13	Mercury [mg/l]	Less than 0.01	3112-B, APHA 24th Edition	0.01
14	Nickel [mg/l]	0.14	3111-B, APHA 24th Edition	3.0
15	Zinc [mg/l]	2.29	3111-B, APHA 24th Edition	5.0
16	Alkalinity - T [mg/l]	40.2	2320-B, APHA 24th Edition	-
17	Magnesium [mg/l]	72.43	3500-Mg-B, APHA 24th Edition	-

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Sunil Kumar
Senior Analyst


Rajesh Maheshwari
(Report No: 24200001130)



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

TEST REPORT

Report No./ULR No. :	200001130	Date :	24-06-2024
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 :	12-06-2024
Point of Collection :	Mine Water-1st	Date of Receipt :	15-06-2024
Date of Test/Analysis :	15-06-2024 to 24-06-2024	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	Chloride as Cl [mg/l]	465.53	4500- Cl- B , APHA 24th Edition	-
2	Sulphate [mg/l]	766.25	4500-SO4-E , APHA 24th Edition	Not Specified

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Sunil Kumar


Rajesh Moheshwari
(Report No: 200001130)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	24200001315	Date :	27-07-2024
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 :	12-07-2024
Point of Collection :	Mine Water-1st	Date of Receipt :	15-07-2024
Date of Test/Analysis :	15-07-2024 to 27-07-2024	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2ltr	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]	3807	2540- C , APHA 24th Edition	Not Specified
2	Total Solids [mg/l]	3828	2540-B , APHA 24th Edition	-
3	Suspended Solids [mg/l]	21	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]	788.46	2340- C , APHA 24th Edition	-
6	pH	7.26	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

Note:

Continue to next page...

Rajesh Maheshwari

Team Test House



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

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
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]	0.11	3111-B, APHA 24th Edition	3.0
15	Zinc [mg/l]	2.45	3111-B, APHA 24th Edition	5.0
16	Alkalinity - T [mg/l]	34.83	2320-B, APHA 24th Edition	-
17	Magnesium [mg/l]	64.55	3500-Mg-B, APHA 24th Edition	-

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Senior Analyst


Authorized Signatory
(Report No: 24200001315)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ILR No. :	200001315	Date :	27-07-2024
Issued To :	M/S Hinduathan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	12-07-2024
Point of Collection :	Mine Water-1st	Date of Receipt :	15-07-2024
Date of Test/Analysis :	15-07-2024 to 27-07-2024	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2ltr	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]	418.03	4500- Cl- B , APHA 24th Edition	-
19	Sulphate [mg/l]	712.25	4500-SO4-E , APHA 24th Edition	Not Specified

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Sunil Kumar
Senior Analyst

Rakesh Kishorewar
Authorized Signatory
(Report No: 200001315)

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Email : marketinglab@teamtesthouse.com

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TEST REPORT

Report No./ULR No. :	24200001433	Date :	21-08-2024
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 :	06-08-2024
Point of Collection :	Mine Water-1st	Date of Receipt :	10-08-2024
Date of Test/Analysis :	10-08-2024 to 21-08-2024	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]	3976	2540- C , APHA 24th Edition	Not Specified
2	Total Solids [mg/l]	3993	2540-B , APHA 24th Edition	-
3	Total Suspended Solids [mg/l]	17	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]	740.38	2340- C , APHA 24th Edition	-
6	pH	7.47	4500 H+B , APHA 24th Edition	5.5 - 9.0
7	Sulphate [mg/l]	More than 500	4500-SO4-E , APHA 24th Edition	Not Specified
8	Arsenic [mg/l]	Less than 0.01	3114- B , APHA 24th Edition	0.2

Note

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Signature

Rajesh Maheshwari

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Email : marketinglab@teamtesthouse.com

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
9	Cadmium [mg/l]	Less than 0.01	3111-B, APHA 24th Edition	2.0
10	Cobalt [mg/l]	Less than 0.01	3111-B, APHA 24th Edition	-
11	Copper [mg/l]	Less than 0.05	3111-B, APHA 24th Edition	3.0
12	Iron [mg/l]	Less than 0.5	3111-B, APHA 24th Edition	3.0
13	Lead [mg/l]	Less than 0.01	3111-B, APHA 24th Edition	0.1
14	Mercury [mg/l]	Less than 0.01	3112-B, APHA 24th Edition	0.01
15	Nickel [mg/l]	0.12	3111-B, APHA 24th Edition	3.0
16	Zinc [mg/l]	2.63	3111-B, APHA 24th Edition	5.0
17	Alkalinity - T [mg/l]	27	2320-B, APHA 24th Edition	-
18	Magnesium [mg/l]	72.96	3500-Mg-B, APHA 24th Edition	-

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Sunil Kumar
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No. 24200001433)

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TEST REPORT

Report No./ULR No. :	200001433	Date :	21-08-2024
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 :	06-08-2024
Point of Collection	Mine Water-1st	Date of Receipt :	10-08-2024
Date of Test/Analysis :	10-08-2024 to 21-08-2024	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	Chloride as Cl [mg/l]	401.15	4500- Cl- B , APHA 24th Edition	-

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Sunil Kumar
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 200001433)



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

TEST REPORT

Report No./ULR No. :	24200001624	Date :	27-09-2024
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 :	11-09-2024
Point of Collection :	Mine Water-	Date of Receipt :	16-09-2024
Date of Test/Analysis :	16-09-2024 to 27-09-2024	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]	3950	2540- C , APHA 24th Edition	Not Specified
2	Total Solids [mg/l]	3972	2540-B , APHA 24th Edition	-
3	Total Suspended Solids [mg/l]	22	2540-D , APHA 24th Edition	100
4	Biochemical Oxygen Demand (BOD) [mg/l]	6	5210-B , APHA 24th Edition	30
5	Chemical Oxygen Demand (COD) [mg/l]	29.95	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]	6.7	4500- O C , APHA 24th Edition	-
3	Fluoride [mg/l]	1.09	4500-F-C , APHA 24th Edition	2.0

Note:

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
9	Hardness (total) [mg/l]	792.45	2340- C , APHA 24th Edition	-
10	pH	7.16	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]	Less than 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]	0.36	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]	0.22	3111-B, APHA 24th Edition	3.0
22	Zinc [mg/l]	2.95	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]	33	2320-B , APHA 24th Edition	-
25	Nitrate as NO3 [mg/l]	24.12	4500-NO3- B , APHA 24th Edition	50

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Sunil Kumar
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: 24200001624)



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TEST REPORT

Report No./ULR No. :	200001624	Date :	27-09-2024
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 :	11-09-2024
Point of Collection	Mine Water-	Date of Receipt :	16-09-2024
Date of Test/Analysis :	16-09-2024 to 27-09-2024	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]	415.83	4500- Cl- B , APHA 24th Edition	-
27	Sulphate [mg/l]	822.22	4500-SO4-E , APHA 24th Edition	Not Specified

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Sunil Kumar


Rajesh Maheshwari
Authorized Signatory
(Report No: 200001624)

Hindustan Zinc Limited Kayad Mine

Mine pond pH & Trubidity monitoring report April 2024 to Sep 2024

DATE	pH	Trubidity	Month	pH	Trubidity	Month	pH	Trubidity	Month	pH	Trubidity	Month	pH	Trubidity	Month	pH	Trubidity
01/05/2024	7.76	4.61	01/05/2024	7.28	4.61	01/06/2024	8	3.09	01/07/2024	7.96	5.28	01/08/2024	7.8	3	01/09/2024	7.6	7.05
02/05/2024	8.17	4.83	02/05/2024	7.22	4.83	02/06/2024	8.1	3.6	02/07/2024	7.96	5.58	02/08/2024	7.8	2.86	02/09/2024	7.6	6.06
03/05/2024	8.32	3.42	03/05/2024	7.24	3.42	03/06/2024	8.2	3.68	03/07/2024	7.95	6.34	03/08/2024	7.9	5.02	03/09/2024	7.5	3.36
04/05/2024	8.61	4.18	04/05/2024	7.63	4.18	04/06/2024	8.1	4.02	04/07/2024	8.02	7.40	04/08/2024	7.9	7	04/09/2024	7.3	4.5
05/05/2024	8.78	3.69	05/05/2024	7.77	3.69	05/06/2024	8	4.02	05/07/2024	7.99	7.64	05/08/2024	7.2	6.64	05/09/2024	7.5	2.6
06/05/2024	7.94	4.87	06/05/2024	7.86	4.87	06/06/2024	8	4.29	06/07/2024	7.95	7.02	06/08/2024	7.8	6.6	06/09/2024	7.6	3.09
07/05/2024	7.94	2.86	07/05/2024	7.87	2.86	07/06/2024	8	4	07/07/2024	7.85	6.26	07/08/2024	7.8	6.6	07/09/2024	7.6	0.95
08/05/2024	7.97	4.22	08/05/2024	7.76	4.22	08/06/2024	8	4.23	08/07/2024	7.91	5.66	08/08/2024	7.8	6.6	08/09/2024	7.5	2.4
09/05/2024	8.03	5.45	09/05/2024	7.84	5.45	09/06/2024	7.9	4.29	09/07/2024	7.87	5.90	09/08/2024	7.8	6.6	09/09/2024	7.6	5.08
10/05/2024	8.04	3.94	10/05/2024	7.79	3.94	10/06/2024	7.9	4.03	10/07/2024	7.91	6.78	10/08/2024	7.3	6.59	10/09/2024	7.6	5.54
11/05/2024	8.33	4.17	11/05/2024	7.80	4.17	11/06/2024	7.9	3.84	11/07/2024	7.89	6.52	11/08/2024	7.8	6.57	11/09/2024	7.6	5.83
12/05/2024	8.03	5.66	12/05/2024	7.84	5.66	12/06/2024	8	4.52	12/07/2024	7.87	5.56	12/08/2024	7.8	6.74	12/09/2024	7.6	5.78
13/05/2024	8.46	3.64	13/05/2024	7.85	3.64	13/06/2024	8	4.72	13/07/2024	7.98	6.65	13/08/2024	7.8	6.43	13/09/2024	7.6	4.97
14/05/2024	8.95	7.92	14/05/2024	7.82	7.92	14/06/2024	8.1	4.98	14/07/2024	8.00	7.07	14/08/2024	7.8	6.66	14/09/2024	7.6	3.04
15/05/2024	8.82	5.11	15/05/2024	7.77	5.11	15/06/2024	8	4.9	15/07/2024	7.97	6.04	15/08/2024	7.8	6.8	15/09/2024	7.7	5.22
16/05/2024	8.72	4.1	16/05/2024	7.73	4.1	16/06/2024	7.9	4.9	16/07/2024	7.91	6.05	16/08/2024	7.8	6.97	16/09/2024	7.6	3.55
17/05/2024	8.77	5.24	17/05/2024	7.68	5.24	17/06/2024	7.9	4.78	17/07/2024	7.94	6.54	17/08/2024	7.7	5.09	17/09/2024	7.7	6.55
18/05/2024	8.78	3.59	18/05/2024	7.68	3.59	18/06/2024	7.8	4.48	18/07/2024	7.92	6.63	18/08/2024	7.6	5.28	18/09/2024	7.7	7.92
19/05/2024	8.69	0.57	19/05/2024	5.58	0.57	19/06/2024	7.8	4.63	19/07/2024	7.86	6.58	19/08/2024	7.6	5.7	19/09/2024	7.6	3.52
20/05/2024	8.57	4.23	20/05/2024	4.23	4.23	20/06/2024	7.9	4.38	20/07/2024	7.87	6.96	20/08/2024	7.6	5.92	20/09/2024	7.7	5.99
21/05/2024	8.42	4.87	21/05/2024	6.14	4.87	21/06/2024	7.9	5.23	21/07/2024	7.76	7.26	21/08/2024	7.6	4.95	21/09/2024	7.6	6.46
22/05/2024		5.21	22/05/2024	6.17	4.18	22/06/2024	7.9	5.64	22/07/2024	7.84	6.38	22/08/2024	7.4	4.76	22/09/2024	7.7	7.42
23/05/2024		5.7	23/05/2024	5.93	3.69	23/06/2024	7.9	5.26	23/07/2024	7.79	7.44	23/08/2024	7.8	8.2	23/09/2024	7.6	5.3
24/05/2024		7.23	24/05/2024	5.78	4.87	24/06/2024	7.9	5.43	24/07/2024	7.80	5.77	24/08/2024	7.8	7.58	24/09/2024	7.8	2.29
25/05/2024		7.02	25/05/2024	6.52	2.86	25/06/2024	8	6.06	25/07/2024	7.84	5.60	25/08/2024	7.6	5.72	25/09/2024	7.8	8.87
26/05/2024		6.8	26/05/2024	5.27	4.22	26/06/2024	8	6.2	26/07/2024	7.85	5.28	26/08/2024	7.3	6.85	26/09/2024	7.8	8.06
27/05/2024		5.84	27/05/2024	8.33	5.45	27/06/2024	7.9	6.04	27/07/2024	7.82	5.03	27/08/2024	7.8	7.22	27/09/2024	7.8	8.23
28/05/2024		7.22	28/05/2024	7.07	3.94	28/06/2024	7.9	5.94	28/07/2024	7.77	4.79	28/08/2024	7.8	7.63	28/09/2024	7.8	6.36
29/05/2024		4.78	29/05/2024	6.59	4.17	29/06/2024	7.9	5.34	29/07/2024	7.73	4.55	29/08/2024	7.7	7.84	29/09/2024	7.7	6.39
30/05/2024		2.3	30/05/2024	7.2	5.66	30/06/2024	8	5.92	30/07/2024	7.68	3.05	30/08/2024	7.7	6.99	30/09/2024	7.8	8.2
31/05/2024			31/05/2024	7.16	3.64		7.3	5.9	31/07/2024	7.68	0.44	31/08/2024	7.7	7.45			



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

TEST REPORT

Report No./ULR No. :	24100000676	Date :	14-06-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	30-05-2024
Point of Collection :	PW - 1	Date of Receipt :	31-05-2024
Date of Test/Analysis :	31-05-2024 to 14-06-2024	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr.	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.62	IS 3025 (Part 11) : 1983 RA 2017
2	Total Hardness [mg/l]	1915.89	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]	5864	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]	862	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]	0.11	IS 3025 (Part 49) : 1994 RA 2019
10	Alkalinity - T [mg/l]	459	IS 3025 (Part 23) : 1986 RA 2019

Note:

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Raj



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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]	124	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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Balaram
Balaram Agarwal
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: 24100000676)



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TEST REPORT

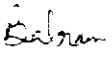
Report No./ULR No. :	100000676	Date :	14-06-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	30-05-2024
Point of Collection :	PW - 1	Date of Receipt :	31-05-2024
Date of Test/Analysis :	31-05-2024 to 14-06-2024	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

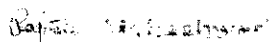
RESULTS

S.No	Parameters	Observed Value	Testing Protocol
15	Chloride [mg/l]	1781.36	IS 3025 (Part 32) : 1988 RA 2019
16	Total Solids [mg/l]	5988	IS 3025 (part 15) : 1984 RA 2019

Notes :-

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Senior Analyst


Authorized Signatory
(Report No: 100000676)



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TEST REPORT

Report No./ULR No. :	24100000677	Date :	14-06-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	30-05-2024
Point of Collection :	PW - 2	Date of Receipt :	31-05-2024
Date of Test/Analysis :	31-05-2024 to 14-06-2024	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr.	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.88	IS 3025 (Part 11) : 1983 RA 2017
2	Total Hardness [mg/l]	2710.28	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]	6183	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]	475.71	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]	0.26	IS 3025 (Part 49) : 1994 RA 2019
10	Alkalinity - T [mg/l]	510	IS 3025 (Part 23) : 1986 RA 2019

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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]	444	IS 3025 (Part 17) : 1984 RA 2017
13	Cobalt [mg/l]	Less than 0.05	3113 -B , APHA 24th Edition
14	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003 RA 2019

Notes :-

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Balram
Balram Agarwal
Senior Analyst

Sap
Authorized Signatory
(Report No: 24100000677)



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

TEST REPORT

Report No./ULR No. :	100000677	Date :	14-06-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan)	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	30-05-2024
Point of Collection :	PW - 2	Date of Receipt :	31-05-2024
Date of Test/Analysis :	31-05-2024 to 14-06-2024	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

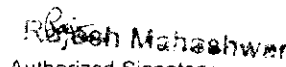
RESULTS

S.No	Parameters	Observed Value	Testing Protocol
15	Chloride [mg/l]	2161.39	IS 3025 (Part 32) : 1988 RA 2019
16	Total Solids [mg/l]	6627	IS 3025 (part 15) : 1984 RA 2019

Notes :-

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Senior Analyst


Authorized Signatory
(Report No: 100000677)



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

TEST REPORT

Report No./ULR No. :	24100000678	Date :	14-06-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Unit	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	30-05-2024
Point of Collection	PW - 3	Date of Receipt	31-05-2024
Date of Test/Analysis :	31-05-2024 to 14-06-2024	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	7.57	IS 3025 (Part 11) : 1983 RA 2017
2	Total Hardness [mg/l]	2803.74	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]	7522	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]	1378.57	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]	0.13	IS 3025 (Part 49) : 1994 RA 2019
10	Alkalinity - T [mg/l]	326.4	IS 3025 (Part 23) : 1986 RA 2019

Note:

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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]	102	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


Authorized Signatory
(Report No: 24100000678)



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info@teamtesthouse.com,
hr@teamtesthouse.com

TEST REPORT

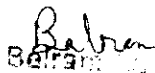
Report No./ULR No. :	100000678	Date	14-06-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan)	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	30-05-2024
Point of Collection :	PW - 3	Date of Receipt	31-05-2024
Date of Test/Analysis :	31-05-2024 to 14-06-2024	Sampling Plan	IS 3025 1987(Part 1)RA 2014
Quantity of Sample :	2 ltr.	Sample Collected By :	Staram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

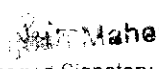
RESULTS

S.No	Parameters	Observed Value	Testing Protocol
15	Chloride [mg/l]	2066.38	IS 3025 (Part 32) : 1988 RA 2019
16	Total Solids [mg/l]	7624	IS 3025 (part 15) : 1984 RA 2019

Notes :-

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Balram
Senior Analyst


Maheshwari
Authorized Signatory
(Report No: 100000678)



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TEST REPORT

Report No./ULR No. :	24100000679	Date :	14-06-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	30-05-2024
Point of Collection :	PW - 4	Date of Receipt :	31-05-2024
Date of Test/Analysis :	31-05-2024 to 14-06-2024	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr.	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	8.04	IS 3025 (Part 11) : 1983 RA 2017
2	Total Hardness [mg/l]	2663.55	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]	6805	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]	1258.4	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]	0.07	IS 3025 (Part 49) : 1994 RA 2019
10	Alkalinity - T [mg/l]	297.84	IS 3025 (Part 23) : 1986 RA 2019

Note:

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Signature



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RESULTS

S.No	Parameters	Observed Value	Testing Protocol
11	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019
12	Total Suspended Solids [mg/l]	74	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

Maheshwari
Maheshwari
Authorized Signatory
(Report No: 24100000679)



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Phone : +91 9460222039, 9460222049,
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ChiefMarketinglab@teamtesthouse.com

TEST REPORT

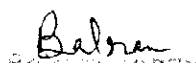
Report No./ULR No. :	100000679	Date :	14-06-2024
Issued To :	M/S. Hindustan Zinc Limited (Kayad Mines) Village Kayad, District Aimer (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	30-05-2024
Point of Collection :	PW-4	Date of Receipt :	31-05-2024
Date of Test/Analysis :	31-05-2024 to 14-06-2024	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

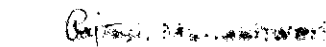
RESULTS

S.No	Parameters	Observed Value	Testing Protocol
15	Chloride (mg/l)	2422.65	IS 3025 (Part 32) : 1988 RA 2019
16	Total Solids (mg/l)	6879	IS 3025 (part 15) : 1984 RA 2019

Notes :-

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


Balraj
Senior Analyst


Authorized Signatory
(Report No: 100000679)



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TEST REPORT

Report No./ULR No. :	24100000680	Date :	13-06-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines, Village Kayad District Ajmer (Rajasthan))	Type of Unit :	Waters
Type of sample / Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	13-05-2024
Point of Collection :	PW - 5	Date of Report :	13-05-2024
Date of Test/Analysis :	31-05-2024 to 14-06-2024	Sampling Point :	24100000680(Part 1)RA
Quantity of Sample :	2 ltr.	Sample Collected By :	Prakash Shrivastava
Unit's representative :	Mr Prakash Sharma	Condition of Sample :	For testing

RESULTS

S.No	Parameters	Observed Value	Tested against
1	pH	8.02	IS 3025 (Part 1): 1983 RA
2	Total Hardness [mg/l]	2850.47	IS 3025 (Part 1): 2009 RA
3	Iron [mg/l]	0.05	IS 3025 (Part 13): 2003 RA
4	Total Dissolved Solids [mg/l]	7649	IS 3025 (Part 1): 1984 RA
5	Copper [mg/l]	Less than 0.01	IS 3025 (Part 14): 1992 RA
6	Sulphate [mg/l]	1614.28	IS 3025 (Part 14): 1986 RA
7	Cadmium [mg/l]	Less than 0.001	IS 3025 (Part 1): 1992 RA
8	Lead [mg/l]	Less than 0.01	IS 3025 (Part 1): 1994 RA
9	Zinc [mg/l]	0.12	IS 3025 (Part 13): 1994 RA
10	Alkalinity - T [mg/l]	134.64	IS 3025 (Part 13): 1986 RA

Note:

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RESULTS

S.No	Parameter	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]	28	IS 3025 (Part 17) : 1984 RA 2017
13	Cobalt [mg/l]	Less than 0.05	3113 -B , APHA 24th Edition
14	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003 RA 2019

Notes :-

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Balram
Balram Agarwal
Senior Analyst

Authorized Signatory
(Report No: 24100000680)



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TEST REPORT

Report No./ULR No. :	100000680	Date :	14-06-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan).	Type of Job :	Min.
Type of sample / Discipline :	Ground Water / Surface water / Chemical	Date of Sample Collection and Testing :	30-05-2024
Point of Collection :	PW - 5	Date of Report :	14-06-2024
Date of Test/Analysis :	31-05-2024 to 14-06-2024	Sample No. :	123 (1)RA
Quantity of Sample :	2 ltr.	Sample No. :	123 (2)RA
Unit's representative :	Mr Prakash Sharma	Operator :	Mr Prakash Sharma

RESULTS

S.No	Parameters	Observed Value	Standard Value	Remarks
15	Chloride [mg/l]	1947.62	300	300 RA
16	Total Solids [mg/l]	7677	1000	1000 RA

Notes :-

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Balran
Senior Analyst

Author : *Shwari*
(R. No. : 100000680)



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TEST REPORT

Report No./ULR No. :	TTH/SA/KAYAD/24/06	Date :	09-10-2024
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 :	11-09-2024
Point of Collection :	PW - 1	Date of Receipt :	16-09-2024
Date of Test/Analysis:	16-09-2024 to 09-10-2024	Sampling Plan :	IS 3025:1987(Part1)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	7.75	IS 3025 (Part 11) : 1983 RA 2017
2	Total Hardness [mg/l]	1860.10	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]	5345	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]	813	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]	0.08	IS 3025 (Part 49) : 1994 RA 2019
10	Alkalinity - T [mg/l]	512	IS 3025 (Part 23) : 1986 RA 2019

Note:

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Rajesh Maheshwari



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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]	109	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
15	Chloride [mg/l]	1642.19	IS 3025 (Part 32) : 1988 RA 2019
16	Total Solids [mg/l]	5454	IS 3025 (part 15) : 1984 RA 2019

Notes :-

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Balram Agarwal
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: TTH/SA/KAYAD/24/06)



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TEST REPORT

Report No./ULR No. :	TTH/SA/KAYAD/24/07	Date :	09-10-2024
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 :	11-09-2024
Point of Collection :	PW - 2	Date of Receipt :	16-09-2024
Date of Test/Analysis:	16-09-2024 to 09-10-2024	Sampling Plan :	IS 3025:1987(Part1)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	7.80	IS 3025 (Part 11) : 1983 RA 2017
2	Total Hardness [mg/l]	2540.92	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]	5746	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]	502.17	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]	0.32	IS 3025 (Part 49) : 1994 RA 2019
10	Alkalinity - T [mg/l]	493	IS 3025 (Part 23) : 1986 RA 2019

Note:

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Rajesh
Rajesh Maheshwari



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RESULTS

S.No	Parameters	Observed Value	Testing Protocol
11	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019
12	Total Suspended Solids [mg/l]	315	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
15	Chloride [mg/l]	2018.52	IS 3025 (Part 32) : 1988 RA 2019
16	Total Solids [mg/l]	6061	IS 3025 (part 15) : 1984 RA 2019

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Balram Agarwal
Senior Analyst


Rajesh Maheshwari
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(Report No: TTH/SA/KAYAD/24/07)



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TEST REPORT

Report No./ULR No. :	TTH/SA/KAYAD/24/08	Date :	09-10-2024
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 :	11-09-2024
Point of Collection :	PW - 3	Date of Receipt :	16-09-2024
Date of Test/Analysis:	16-09-2024 to 09-10-2024	Sampling Plan :	IS 3025:1987(Part1)RA 2014
Quantity of Sample :	2 ltr.	Sample Collected By :	Rakesh Sharma
Unit's representative:	Mr Prakash Shama	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.42	IS 3025 (Part 11) : 1983 RA 2017
2	Total Hardness [mg/l]	2419.70	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	0.04	IS 3025 (Part 53) : 2003 RA 2019
4	Total Dissolved Solids [mg/l]	6146	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]	1240.32	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]	0.11	IS 3025 (Part 49) : 1994 RA 2019
10	Alkalinity - T [mg/l]	315.2	IS 3025 (Part 23) : 1986 RA 2019

Note:

Continue to next page...

Rajesh
Rajesh Maheshwari



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RESULTS

S.No	Parameters	Observed Value	Testing Protocol
11	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019
12	Total Suspended Solids [mg/l]	74	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
15	Chloride [mg/l]	1698.47	IS 3025 (Part 32) : 1988 RA 2019
16	Total Solids [mg/l]	6220	IS 3025 (part 15) : 1984 RA 2019

Notes :-

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Balram Agarwal
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: TTH/SA/KAYAD/24/08)



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TEST REPORT

Report No./ULR No. :	TTH/SA/KAYAD/24/09	Date :	09-10-2024
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 :	11-09-2024
Point of Collection :	PW - 4	Date of Receipt :	16-09-2024
Date of Test/Analysis:	16-09-2024 to 09-10-2024	Sampling Plan :	IS 3025:1987(Part1)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	7.82	IS 3025 (Part 11) : 1983 RA 2017
2	Total Hardness [mg/l]	2246.10	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]	5790	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]	1113.82	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]	246.12	IS 3025 (Part 23) : 1986 RA 2019

Note:

Continue to next page...

Rajesh
Rajesh Maheshwari



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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]	65	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
15	Chloride [mg/l]	2270.15	IS 3025 (Part 32) : 1988 RA 2019
16	Total Solids [mg/l]	5855	IS 3025 (part 15) : 1984 RA 2019

Notes :-

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Balram Agarwal
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: TTH/SA/KAYAD/24/09)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TTH/SA/KAYAD/24/10	Date :	09-10-2024
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 :	11-09-2024
Point of Collection :	PW - 5	Date of Receipt :	16-09-2024
Date of Test/Analysis:	16-09-2024 to 09-10-2024	Sampling Plan :	IS 3025:1987(Part1)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	7.92	IS 3025 (Part 11) : 1983 RA 2017
2	Total Hardness [mg/l]	2592.70	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]	6275	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]	1520.42	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]	0.10	IS 3025 (Part 49) : 1994 RA 2019
10	Alkalinity - T [mg/l]	130.12	IS 3025 (Part 23) : 1986 RA 2019

Note:

Continue to next page...

Rajesh Maheshwari
Rajesh Maheshwari



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Email : marketinglab@teamtesthouse.com

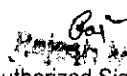
RESULTS

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]	20	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
15	Chloride [mg/l]	1830.10	IS 3025 (Part 32) : 1988 RA 2019
16	Total Solids [mg/l]	6295	IS 3025 (part 15) : 1984 RA 2019

Notes :-

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Balram Agarwal
Senior Analyst


Authorized Signatory
(Report No: TTH/SA/KAYAD/24/10)

Water level of Piezometers & open wells

S.No.	Source Code	Latitude	Longitude	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24
	P-1	N26°31'44.1"	E74°41'19.2"	24.3	25.5	24.4	24.6	16.4	11.4
2	P-2	N26°31'56.9"	E74°41'41.1"	19.4	19.1	21.4	21.3	15.3	12.1
3	P-3	N26°32'10.0"	E74°41'44.4"	10.5	9.9	10.6	10.9	8.5	7.5
4	P-4	26°32'02.0"	74°41'45.2"	9.6	10.8	12.4	12.1	9.4	8.2
5	P-5	26°31'40.3"	74°41'29.1"	17.1	17.8	18.1	17.6	12.1	9
6	W-1	N26°33'25.7"	E74°41'45.9"	14.5	14.9	15.6	15.4	8.4	6.5
7	W -2	N26°32'48.6"	E74°42'24.8"	15.2	16.5	17.2	16.9	7.5	6.6
8	W-3	N26°32'08.3"	E74°42'27.7"	13.1	14.8	15.2	16.5	9.4	6.5
9	W-4	N26°31'11.7"	E74°41'02.7"	14.4	15.5	16.6	16.9	7.5	5.9
10	W-5	N26°31'52.7"	E74°41'36.0"	15.3	16.4	17.2	17.1	6.6	5.3
11	W-6	N26°31'38.7"	E74°41'11.3"	13.4	14.6	15.3	16.2	7.3	7.5

Water level in meters

gms



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TEST REPORT

ReportNo./ULR No. :	TTH/SA/KAYAD/24/01	Date :	27-09-2024
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 :	11-09-2024
Point of Collection :	Kayad Village (Hand Pump) Near Kayad pond	Date of Receipt :	16-09-2024
Date of Test/Analysis:	16-09-2024 to 27-09-2024	Sampling Plan :	IS3025:1987(Part1)RA 2014
Quantity of Sample :	2ltr	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	7.65	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
2	Total Hardness [mg/l]	260.82	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]	105.34	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	682	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	24.13	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
7	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
8	Sulphate [mg/l]	29.67	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]	0.03	IS 3025 (Part 49) : 1994 RA 2019	5	15

Raj

Rajesh Maheshwari



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S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit)asperIS 10500 :2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Sourceasper IS 10500 : 2012
13	Alkalinity - T [mg/l]	235.8	IS 3025 (Part 23) : 1986 RA 2019	200	600
14	Mercury [mg/l]	Less than 0.001	IS 3025 (Part 48) : 1994 RA 2019	0.001	No relaxation
15	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
16	Total Suspended Solids [mg/l]	19	IS 3025 (Part 17) : 1984 RA 2017	-	-
17	Cobalt [mg/l]	Less than 0.05	3113 -B , APHA 24th Edition	-	-
18	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003 RA 2019	0.02	-

Notes :-

- # Limits mentioned as per IS 10500:2012 is of Drinking water. There is no prescribed limit for Surface/Ground water etc.
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Balram
Balram Agarwal
Senior Analyst

Renuka
Renuka Mishra
Authorized Signatory
(Report No: TTH/SA/KAYAD/24/01)



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TEST REPORT

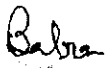
ReportNo./ULR No. :	TTH/SA/KAYAD/24/01	Date :	27-09-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad. District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample/ Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	11-09-2024
Point of Collection :	Kayad Village (Hand Pump) Near Kayad pond	Date of Receipt :	16-09-2024
Date of Test/Analysis:	16-09-2024 to 27-09-2024	Sampling Plan :	IS3025:1987(Part1)RA 2014
Quantity of Sample :	2ltr	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]	701	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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Senior Analyst


Authorized Signatory
(Report No: TTH/SA/KAYAD/24/01)



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TEST REPORT

ReportNo./ULR No. :	TTH/SA/KAYAD/24/02	Date :	27-09-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Typeofsample/ Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitori ng :	11-09-2024
Point of Collection :	Lohagal Village	Date of Receipt :	16-09-2024
Date of Test/Analysis:	16-09-2024 to 27-09-2024	Sampling Plan :	IS3025:1987(Part1)RA 2014
Quantityof Sample :	2ltr	Sample Collected By :	Rakesh Sharma
Unit's representative:	Mr Prakash Sharma	Conditionof Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit)asperIS 10500 :2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Sourceasper IS 10500 : 2012
1	pH	7.61	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
2	Total Hardness [mg/l]	294.55	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]	108.90	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	435	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	28.69	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]	32.97	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]	0.05	IS 3025 (Part 49) : 1994 RA 2019	5	15

Rajesh Maheshwari



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Email : marketinglab@teamtesthouse.com

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit)asperIS 10500 :2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Sourceasper IS 10500 : 2012
13	Alkalinity - T [mg/l]	148.35	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]	11	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: TTH/SA/KAYAD/24/02)



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TEST REPORT

ReportNo./ULR No. :	TTH/SA/KAYAD/24/02	Date :	27-09-2024
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 :	11-09-2024
Point of Collection :	Lohagal Village	Date of Receipt :	16-09-2024
Date of Test/Analysis:	16-09-2024 to 27-09-2024	Sampling Plan :	IS3025:1987(Part1)RA 2014
Quantity of Sample :	2ltr	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]	446	IS 3025 (part 15) : 1984 RA 2019	-	-

Notes :-

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Balra
Senior Analyst

Raj
Rajesh Maheshwari
Authorized Signatory
(Report No: TTH/SA/KAYAD/24/02)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

ReportNo./ULR No. :	TTH/SA/KAYAD/24/03	Date :	27-09-2024
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 :	11-09-2024
Point of Collection :	Gagwana Village	Date of Receipt :	16-09-2024
Date of Test/Analysis:	16-09-2024 to 27-09-2024	Sampling Plan :	IS3025:1987(Part1)RA 2014
Quantity of Sample :	2ltr	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	7.92	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
2	Total Hardness [mg/l]	216.82	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]	28.59	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	365	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	26.84	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]	28.60	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]	0.06	IS 3025 (Part 49) : 1994 RA 2019	5	15


Rajesh Maheshwari



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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]	316	IS 3025 (Part 23) : 1986 RA 2019	200	600
14	Mercury [mg/l]	Less than 0.001	IS 3025 (Part 48) : 1994 RA 2019	0.001	No relaxation
15	Cyanide as CN [mg/l]	Less than 0.04	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
16	Total Suspended Solids [mg/l]	Less than 10	IS 3025 (Part 17) : 1984 RA 2017	-	-
17	Cobalt [mg/l]	Less than 0.05	3113 -B , APHA 24th Edition	-	-
18	Nickel [mg/l]	Less than 0.01	IS 3025 (Part 54) : 2003 RA 2019	0.02	-

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Balram Agarwal
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: TTH/SA/KAYAD/24/03)



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

TEST REPORT

ReportNo./ULR No. :	TTH/SA/KAYAD/24/03	Date :	27-09-2024
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 :	11-09-2024
Point of Collection :	Gagwana Village	Date of Receipt :	16-09-2024
Date of Test/Analysis:	16-09-2024 to 27-09-2024	Sampling Plan :	IS3025:1987(Part1)RA 2014
Quantity of Sample :	2ltr	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]	371	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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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Balra
Senior Analyst

Rajesh
Rajesh Manishwar
(Report No: TTH/SA/KAYAD/24/03)



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TEST REPORT

ReportNo./ULR No. :	TTH/SA/KAYAD/24/04	Date :	27-09-2024
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 :	11-09-2024
Point of Collection :	Chattri Village	Date of Receipt :	16-09-2024
Date of Test/Analysis:	16-09-2024 to 27-09-2024	Sampling Plan :	IS3025:1987(Part1)RA 2014
Quantity of Sample :	2ltr	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	7.80	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
2	Total Hardness [mg/l]	185.34	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]	170.30	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	1183	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	26.80	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]	166.85	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]	0.08	IS 3025 (Part 49) : 1994 RA 2019	5	15

Rajesh
Rajesh Kumar



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S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit)asperIS 10500 :2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Sourceasper IS 10500 : 2012
13	Alkalinity - T [mg/l]	242.3	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 Maheshwari
Authorized Signatory
(Report No: TTH/SA/KAYAD/24/04)



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TEST REPORT

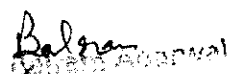
ReportNo./ULR No. :	TTH/SA/KAYAD/24/04	Date :	27-09-2024
Issued To :	M/S Hindusthan Zinc Limited (Kayad Mines) Village Kayad, District Ajmer (Rajasthan),	Type of Unit :	Mines
Type of sample/ Discipline :	Ground Water/Surface water / Chemical	Date of Sample Collection/Monitoring :	11-09-2024
Point of Collection :	Chatri Village	Date of Receipt :	16-09-2024
Date of Test/Analysis:	16-09-2024 to 27-09-2024	Sampling Plan :	IS3025:1987(Part1)RA 2014
Quantity of Sample :	2ltr	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]	1190	IS 3025 (part 15) : 1984 RA 2019	-	-

Notes :-

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Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: TTH/SA/KAYAD/24/04)



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TEST REPORT

ReportNo./ULR No. :	TTH/SA/KAYAD/24/05	Date :	27-09-2024
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 :	11-09-2024
Point of Collection :	Markwali Village	Date of Receipt :	16-09-2024
Date of Test/Analysis:	16-09-2024 to 27-09-2024	Sampling Plan :	IS 3025:1987(Part1)RA 2014
Quantity of Sample :	2ltr	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	7.96	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
2	Total Hardness [mg/l]	208.6	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]	509.37	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	2164	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	29.44	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
7	Copper [mg/l]	Less than 0.01	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
8	Sulphate [mg/l]	190.83	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]	0.07	IS 3025 (Part 49) : 1994 RA 2019	5	15

Rajesh Maheshwari



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S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit)asperIS 10500 :2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Sourceasper IS 10500 : 2012
13	Alkalinity - T [mg/l]	596	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]	11	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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Baran Agarwal
Senior Analyst


Pooja Keshwari
Authorized Signatory
(Report No: TTH/SA/KAYAD/24/05)



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TEST REPORT

ReportNo./ULR No. :	TTH/SA/KAYAD/24/05	Date :	27-09-2024
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 :	11-09-2024
Point of Collection :	Markwali Village	Date of Receipt :	16-09-2024
Date of Test/Analysis:	16-09-2024 to 27-09-2024	Sampling Plan :	IS3025:1987(Part1)RA 2014
Quantity of Sample :	2ltr	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]	2175	IS 3025 (part 15) : 1984 RA 2019	-	-

Notes :-

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Balran
27/09/2024
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TTH/SA/KAYAD/24/05)



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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:

Continue to next page...

Rajesh Maheshwari



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RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible 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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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	-

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San Agarwal
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 24100001011)



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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 :-

- # Limits mentioned as per IS 10500:2012 is of Drinking water. There is no prescribed limit for Surface/Ground water etc.
- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
- # 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

 **Agarwal**
Senior Analyst

 **Rajesh Maheshwari**
Authorized Signatory
(Report No: 100001011)



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, 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	-

Notes :-

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Anurag Chaturvedi
Senior Analyst


Sandeep Yadav
Authorized Signatory
(Report No: 24100001011.)



TEAM TEST HOUSE

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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
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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:

Continue to next page...

Rajesh Maheshwari



TEAM TEST HOUSE

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

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

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible 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



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JDA/UDH

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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 :-

- # 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: 24100001012)

Hindustan Zinc Limited Kayad Mine

STP pH & Trubidity monitoring report April 2024 to September 2024

Month	pH	Trubidity	Month	pH	Trubidity	Month	pH	Trubidity	Month	pH	Trubidity	Month	pH	Trubidity	Month	pH	Trubidity
01/04/2024	7.20	2.97	01/05/2024	7.60	2.09	01/06/2024	7.30	3.08	01/07/2024	7.40	2.2	01/08/2024	7.3	2	01/09/2024	7.40	2.4
02/04/2024	7.50	2.01	02/05/2024	7.40	2.09	02/06/2024	7.30	3.10	02/07/2024	7.20	2.1	02/08/2024	7.5	2.3	02/09/2024	7.30	1.2
03/04/2024	7.10	2.05	03/05/2024	7.40	2.12	03/06/2024	7.50	3.13	03/07/2024	7.30	2.2	03/08/2024	7.2	3.2	03/09/2024	7.20	2.6
04/04/2024	7.40	2.09	04/05/2024	7.20	2.17	04/06/2024	7.20	3.12	04/07/2024	7.50	3.3	04/08/2024	7.5	3.2	04/09/2024	7.20	3.1
05/04/2024	7.70	2.09	05/05/2024	7.20	2.21	05/06/2024	7.40	3.15	05/07/2024	7.50	2.17	05/08/2024	7.1	3.2	05/09/2024	7.30	2.10
06/04/2024	7.80	2.09	06/05/2024	7.10	2.25	06/06/2024	7.50	3.18	06/07/2024	7.60	2.21	06/08/2024	7.2	2.5	06/09/2024	7.50	2.17
07/04/2024	7.50	2.12	07/05/2024	7.50	2.27	07/06/2024	7.20	3.19	07/07/2024	7.40	2.25	07/08/2024	7.4	2.4	07/09/2024	7.40	2.21
08/04/2024	7.50	2.17	08/05/2024	7.60	2.25	08/06/2024	7.10	3.20	08/07/2024	7.20	2.27	08/08/2024	7.5	2.4	08/09/2024	7.60	2.25
09/04/2024	7.30	2.21	09/05/2024	7.70	2.28	09/06/2024	7.40	3.21	09/07/2024	7.40	1.1	09/08/2024	7.6	2.1	09/09/2024	7.70	2.27
10/04/2024	7.10	2.25	10/05/2024	7.40	2.98	10/06/2024	7.60	3.22	10/07/2024	7.80	1.5	10/08/2024	7.5	1.25	10/09/2024	7.50	2.50
11/04/2024	7.40	2.27	11/05/2024	7.30	3.00	11/06/2024	7.80	3.28	11/07/2024	7.90	1.5	11/08/2024	7.6	1.4	11/09/2024	7.40	2.10
12/04/2024	7.30	2.25	12/05/2024	7.30	3.02	12/06/2024	7.50	3.25	12/07/2024	7.60	1.2	12/08/2024	7.5	1.9	12/09/2024	7.40	2.17
13/04/2024	7.60	2.28	13/05/2024	7.20	3.04	13/06/2024	7.50	3.28	13/07/2024	7.50	2.2	13/08/2024	7.2	2	13/09/2024	7.50	2.21
14/04/2024	7.50	2.24	14/05/2024	7.40	3.06	14/06/2024	7.40	3.05	14/07/2024	7.50	2.4	14/08/2024	7.4	2.1	14/09/2024	7.60	2.25
15/04/2024	7.70	2.24	15/05/2024	7.50	3.08	15/06/2024	7.60	2.01	15/07/2024	7.60	2.5	15/08/2024	7.6	2.3	15/09/2024	7.50	2.27
16/04/2024	7.90	2.25	16/05/2024	7.50	3.10	16/06/2024	7.70	2.97	16/07/2024	7.40	2.4	16/08/2024	7.5	2.5	16/09/2024	7.40	2.17
17/04/2024	7.60	2.27	17/05/2024	7.20	3.12	17/06/2024	7.40	2.93	17/07/2024	7.70	2.9	17/08/2024	7.5	2	17/09/2024	7.30	2.21
18/04/2024	7.20	2.28	18/05/2024	7.10	3.14	18/06/2024	7.70	2.97	18/07/2024	7.80	2.8	18/08/2024	7.4	2.1	18/09/2024	7.20	2.25
19/04/2024	7.40	3.01	19/05/2024	7.20	3.16	19/06/2024	7.40	2.01	19/07/2024	7.60	2	19/08/2024	7.3	2.4	19/09/2024	7.40	2.27
20/04/2024	7.50	3.02	20/05/2024	7.40	3.15	20/06/2024	7.60	2.05	20/07/2024	7.70	3.2	20/08/2024	7.5	2.9	20/09/2024	7.30	2.80
21/04/2024	7.30	2.27	21/05/2024	7.50	3.14	21/06/2024	7.50	2.09	21/07/2024	7.50	3.1	21/08/2024	7.3	2.4	21/09/2024	7.30	2.40
22/04/2024	7.10	2.27	22/05/2024	7.50	3.11	22/06/2024	7.30	2.09	22/07/2024	7.30	3.5	22/08/2024	7.2	2.1	22/09/2024	7.40	2.40
23/04/2024	7.30	2.28	23/05/2024	7.70	3.08	23/06/2024	7.50	2.09	23/07/2024	7.20	3.1	23/08/2024	7.4	2.17	23/09/2024	7.80	2.50
24/04/2024	7.60	2.28	24/05/2024	7.40	3.05	24/06/2024	7.80	2.12	24/07/2024	7.20	2.17	24/08/2024	7.6	2.21	24/09/2024	8.10	2.60
25/04/2024	7.40	2.28	25/05/2024	7.60	3.02	25/06/2024	7.40	2.17	25/07/2024	7.50	2.21	25/08/2024	7.7	2.25	25/09/2024	7.60	2.40
26/04/2024	7.70	3.00	26/05/2024	7.60	2.99	26/06/2024	7.30	2.21	26/07/2024	7.40	2.25	26/08/2024	7.5	2.27	26/09/2024	7.50	2.10
27/04/2024	7.60	2.97	27/05/2024	7.20	2.96	27/06/2024	7.20	2.25	27/07/2024	7.6	2.27	27/08/2024	7.4	2.1	27/09/2024	7.60	2.20
28/04/2024	7.50	2.07	28/05/2024	7.10	3.05	28/06/2024	7.10	2.27	28/07/2024	7.50	2	28/08/2024	7.3	2.5	28/09/2024	7.40	2.50
29/04/2024	7.20	2.05	29/05/2024	7.30	3.02	29/06/2024	7.40	2.25	29/07/2024	7.30	2.5	29/08/2024	7.3	2.4	29/09/2024	7.50	2.40
30/04/2024	7.10	2.09	30/05/2024	7.30	3.04	30/06/2024	7.50	2.28	30/07/2024	7.20	2.1	30/08/2024	7.2	1.2	30/09/2024	7.60	2.10
31/04/2024	7.30	3.1	31/05/2024	7.50	3.06	31/12/2023	7.7	1.4	31/07/2024	7.40	2.1	31/08/2024	7.4	1.4			

Yama, G

ENVIRONMENTAL EXPENDITURE DETAILS

Particulars	FY-2024-25					
	April 24- to September 24					
Expenditure	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24
	7.22	7.36	8.76	12.34	8.82	10.00
TOTAL Rs (Lacs)	54.50					

YMRIG



Head Office (Mines)
Rajasthan State Pollution Control Board
4, Institutional Area, (Jhalana Bazaar), 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 : 11234

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 23/09/2022

Sir,

In view of the details submitted vide your above referred application(s) 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 31/03/2028.
3. That this consent is valid for following mining activities.

Mineral	Permitted Mining Capacity
1. LEAD & ZINC ORE (ROM)	10,000 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

Digital Signature of Kastoor Meena
Date: 06/01/2023 09:10:05 IST
Reason: Certificate Valid





Head Office (Mines)

Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doodhgarh, Jaipur-302 004
Phone: 0141-2716814, 2716813 Fax: 0141-2716814

Registered

File No F(Mines)/Ajmer(Ajmer)/303(1)/2017-2018/5559-5563

Order No 2022-2023/Mines/10692

Date: 06/01/2023

Unit Id : 11254

- 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 to 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 NWFL/Forest Department etc. with respect to Wild Life Sanctuary /National Parks/ Critical Tiger Habitats in compliance of various orders passed by any other law/act/rule/ regulation or order of MoEF&CC and/or any Court/Tribunal time to time.

Signature valid

Digital signed by [Signature]
Date: 06/01/2023 15:07
Reason: [Signature]
Location:





Head Office (Mines)

Rajasthan State Pollution Control Board
% Institutional Area, Jhalana Boringari, Jaipur-302 004
Phone: 0141-2716814, 2716913 Fax: 0141-2716814

Registered

File No F(Mines)/A/mcr(A/mcr)/301(1)/2017-2018/5559-5563

Order No 2022-2023/Mines/10692

Date: 06/01/2023

Unit Id : 11254

- 16 That regular water sprinkling should be carried out in critical areas prone to air pollution and having high levels of SPM and RSPM such as on haul road, loading and unloading points and transfer points.
- 17 That the mine shall install adequately designed rain water harvesting structure for prevention and recharge of ground water in and around the lease area.
- 18 That the mine shall not allow making any obstacles to any natural water flow i.e., natural nallah/steam 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

Digitaly signed by: Anand
Date: 2023-01-06 10:05:10
Reason: Self signed
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 : 11254

- 25 That the grant of this consent to establish/operate is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other legal instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time being in force, rests with the industry/unit/project proponent.

This bears approval of the competent authority.

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):

The Additional PCCB (W&C) and Chief W&C Officer, Aranya Bhawan, Jhalana Institutional Area, Jaipur(RS/PW/C Ajmer), To inform that the consent has been issued from the environmental angle only, and ensuring compliance of any other law/act/rule/regulation or order of any Court/Tribunal is the sole responsibility of the project proponent and the concerned departments

Group Incharge-Mines

Signature valid

Digital, signed by Group Incharge-Mines
Date: 06/01/2023 10:06:15
Reason: Self signed
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



Form with handwritten text and tables. The text is in Hindi. The tables contain numerical data.

1. **हस्ताक्षर (स)** प्रमाणित किया गया कि स.स. 1000

2. **अन्य जानकारी**

ना	संख्या	दिनांक	विवरण

3. **विवरण**

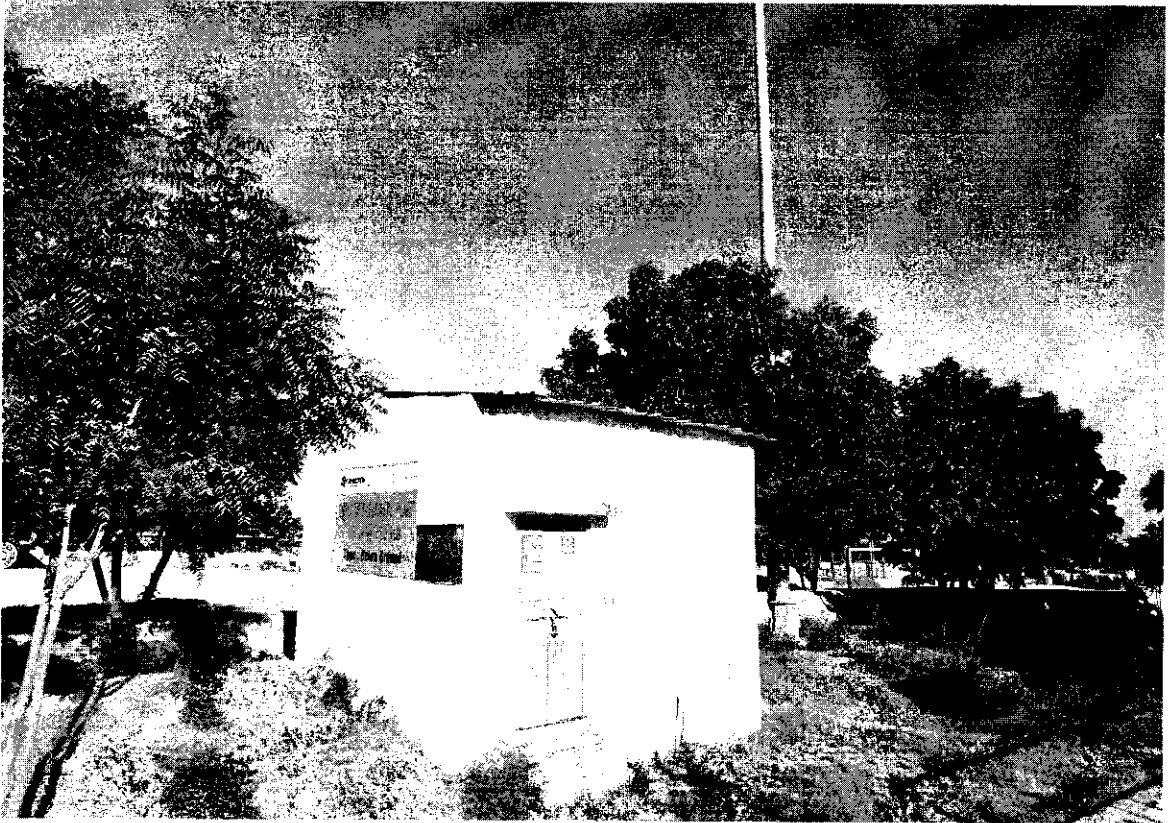
क्र.सं.	विवरण	प्रमाणित	दिनांक
1			
2			
3			

4. **संख्या**

क्र.सं.	विवरण	प्रमाणित	दिनांक
1			
2			
3			



Annexure -XII



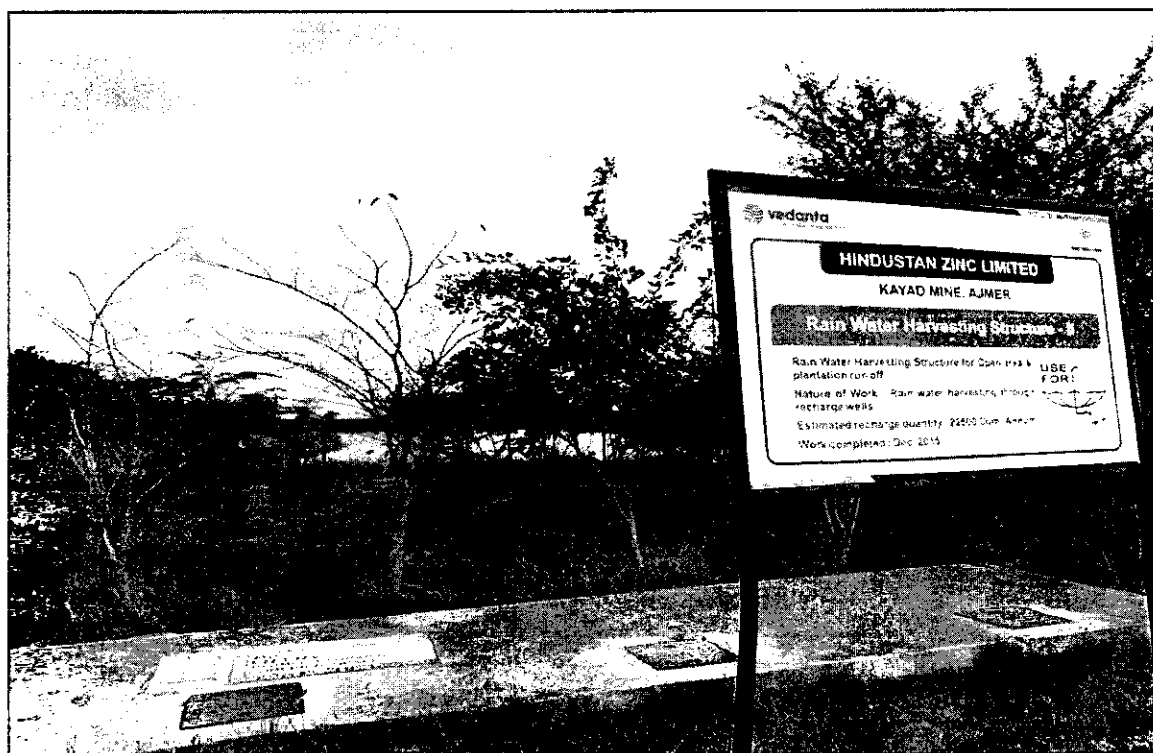
Annexure -XII



Annexure -XIV



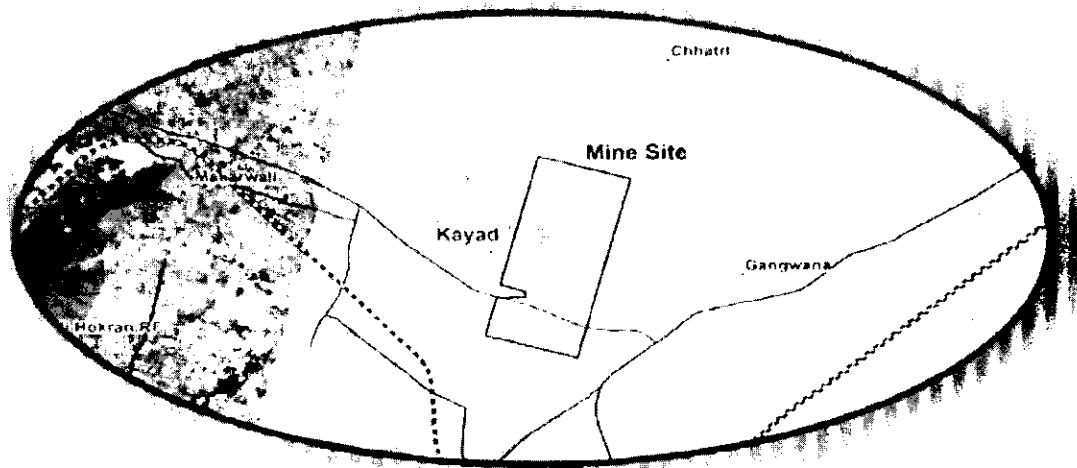
Annexure -XV



Annexure -XVI



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: Vashad Bhowan,
Udaipur
Rajasthan - 313 004

PREPARED BY



J.M. EnviroNet Pvt. Ltd.

(Registered EIA Consultant Organization from NABET-QCI)
Certificate No.: NABET/EIA/2023/IA 0172 (Valid till 7th Aug., 2023)
Emmor Digital Greens, Tower - B, Unit No. 1517,
Griff Course Est. Road, Sector - 81, Gurugram (Haryana) - 122 011
E-mail: jmenviron@hotm.com
NABT Approved Lab: JM EnviroLab Pvt. Ltd.
(Certificate No.: TC-6821)



HINDUSTAN ZINC
Zinc & Silver of India

Ref: HZI/KYD/ENV/2024-2025/07

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

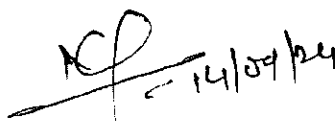
Ref: Env clearance vide No. : J-110115/47/2012-IA.II (M) dated 5th Feb, 2018
CTO granted vide No.: F(Mines)/Ajmer (Ajmer)/303(1)/2017-2018/5559-5563
dated 06/01/2023

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)

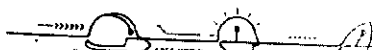
cc to: Regional Officer

: 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

O/C Encl



Confidential

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



सीएसआईआर
CSIR
भारत का नवाचार इंजन
The Innovation Engine of India

REPORT ON

[STUDY PERIOD APRIL 01, 2024 to SEPTEMBER 30, 2024]

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



PROJECT NO.: SSP/872/2024-25

NOVEMBER 2024



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 554 controlled blasts across various locations for slot raises and ring operations over a six-month period i.e. from 1st April, 2024 to 30th September, 2024. These blasting activities were performed at multiple stopes locations, including S1 200 UPHOLE, S1 275 UPHOLE, N 95 875, N FWD2 150-120, S1 200 UPHOLE, S1 275 UPHOLE, N FWD2 150-120, S1 275 UPHOLE, N FWD3 150-120, N FWD3 150-120, S1 275 UPHOLE, S1 275 UPHOLE, S 225 S3, S300 PILLAR, S1 275 UPHOLE, S 225 S3, N120 -150 XCUT 875, N 325 UP HOLE, etc.

Attempts were made to record 1108 ground vibration data out of which 143 ground vibration data were recorded. The instrument has not triggered for 965 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 in 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 232 m to 1778 m. All the blasts were initiated with electronic delay detonators and with Nonel delay detonators to avoid nuisance to the inhabitants of the Kayad village. This report includes the results of the study, data analyses, discussions, conclusions, and recommendations for safe and efficient blasting operations. Figure 1 illustrates the number of blasts conducted (month-wise) at Kayad Mine from April 1, 2024, to September 30, 2024.

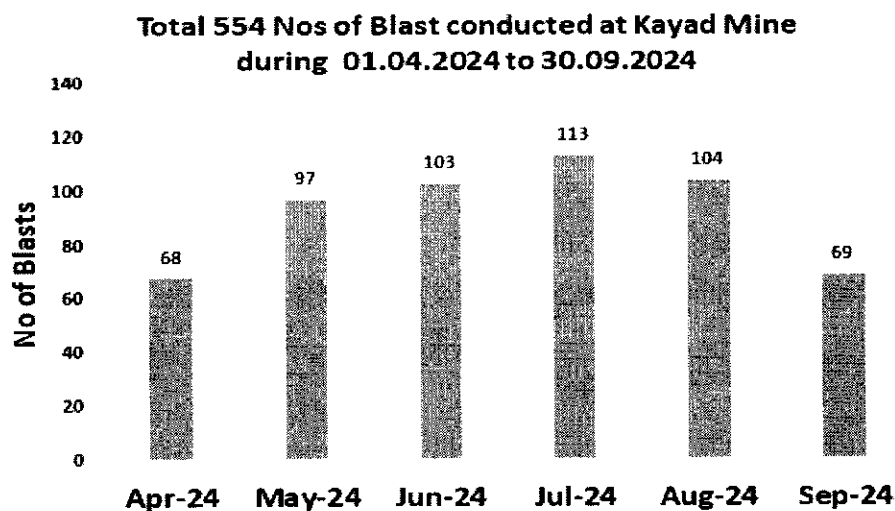


Figure 1. No. of blasts conducted at Kayad UG mine, HZL from 01.04.2024 to 30.09.2024.



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 13.38 mm/s with a dominant peak frequency of 45.44 Hz near the admin building of Kayad Mine. In the same blast vibration recorded at the Mine boundary near Sultan House of Kayad mine was 2.556 mm/s with a dominant peak frequency of 18.19 Hz. The blast wave recorded at the Admin building of Kayad mine due to the



blast conducted at the S1 200 stope on 06.04.2024 (PPV- 5.617 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 07.07.2024 (PPV – 4.979 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 - 80 Hz i.e. in high frequency zone (>25 Hz).

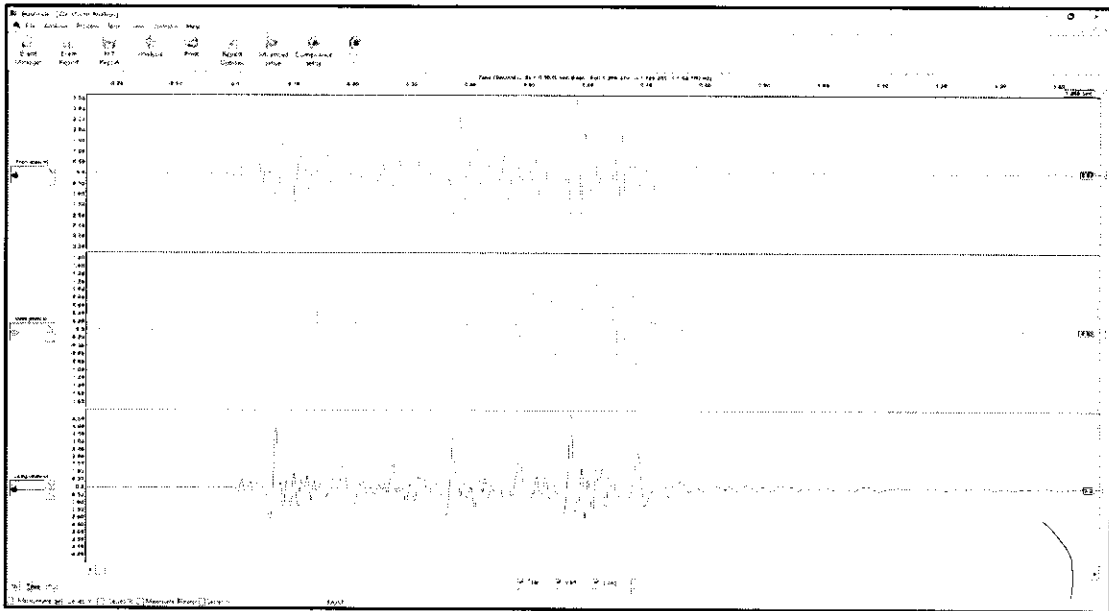


Figure 2. Blast time history recorded on 06.04.2024 at the Admin building of Kayad Mine.

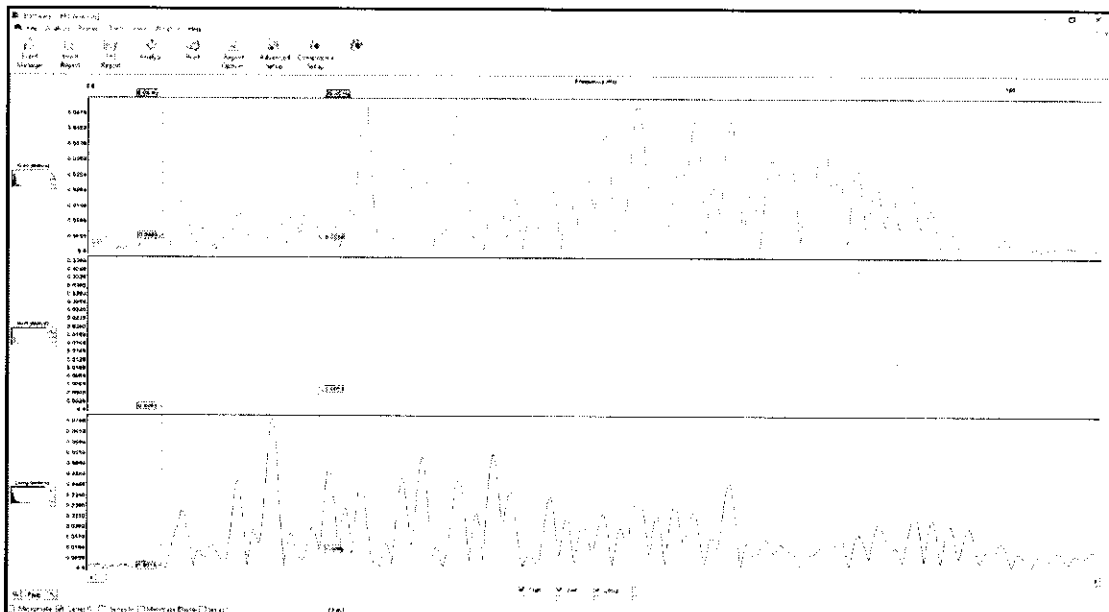


Figure 3. The FFT analyses of the frequency of vibration (as mentioned in Figure 2).

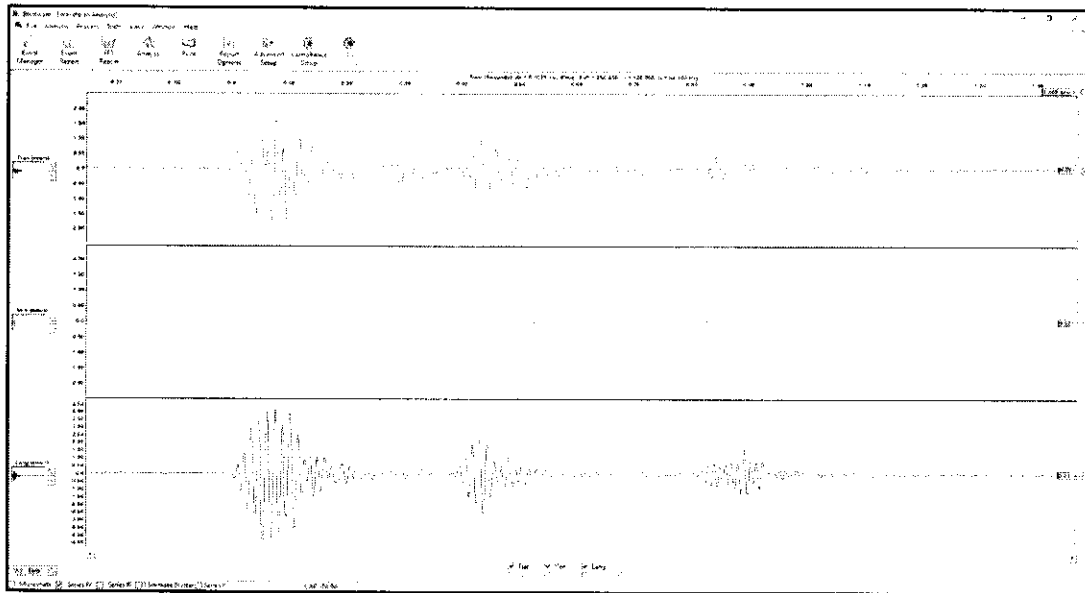


Figure 4. Blast time history recorded on 07.07.2024 at mine boundary near the house of Mr. Sultan Ahmad.

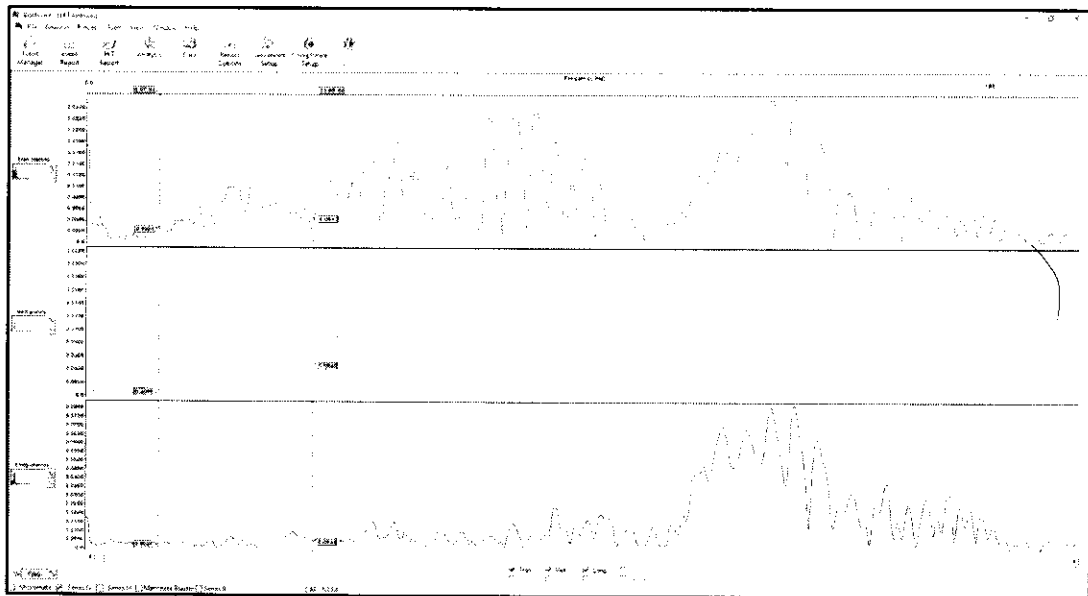


Figure 5. The FFT analyses of frequency of vibration (as mention in Figure 4).

The vibration data recorded due to the blast conducted at Kayad UG Mine during April 01, 2024-September 30, 2024 were analysed. The recorded peak particle velocity (PPV) data were in the range of 0.554 mm/s to 13.38 mm/s. The threshold velocity of vibration as per the DGMS standard is 15 mm/s for Kayad UG Mine considering the dominant frequency range of more than 25 Hz. Figure 6 depicts the plot of recorded vibration data with their corresponding dominant peak frequency. The view of different vibration monitoring locations in the periphery of the mine is shown in Photograph 1.

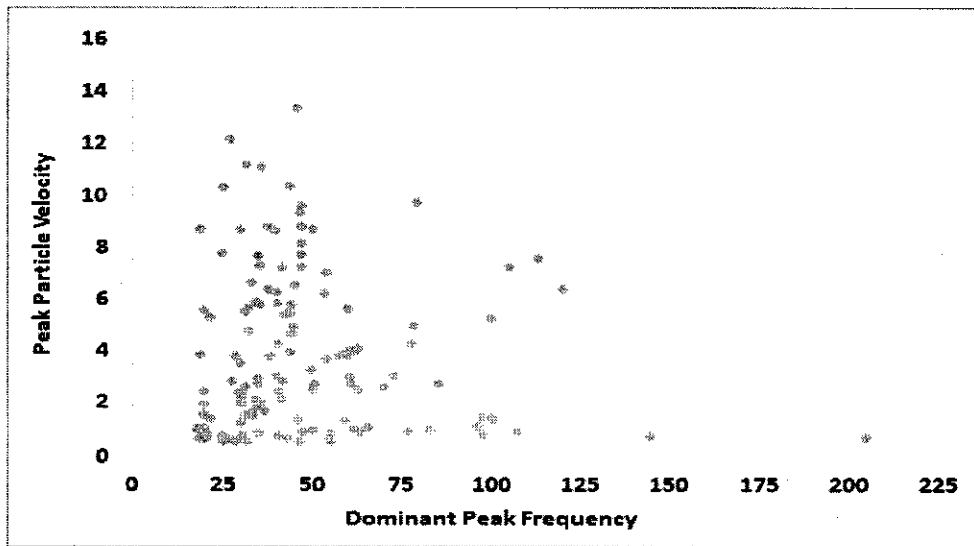
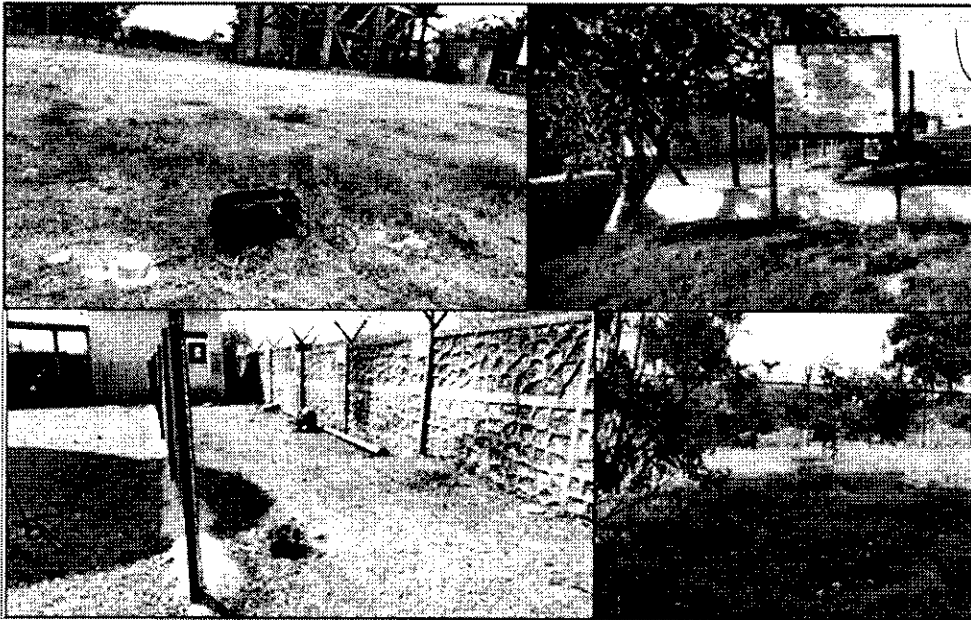


Figure 6. Blast vibration data recorded vibration in the periphery of Kayad UG Mine.



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

Human response to blasting

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

It is impossible to establish a vibration level where nobody will complain. There are always some persons in a population who will complain no matter how small the disturbance is. Several researchers recognised that the duration of the vibration was critical. Most evident was that a



higher level could be tolerated if the event was short. Consequently, steady state vibration data could not be realistically applied to blasting except for events that exceed sixty seconds duration. The mine management must convince the nearby house owners that the rattling is to be expected but it may not be damaging.

Conclusions and recommendations

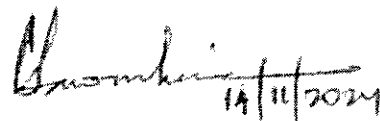
- ❖ Altogether, 554 blasts were conducted for underground slot raise and Ring blasts at different locations of the mine during April 01, 2024 - September 30, 2024. Attempts were made to record 1108 vibration data, out of which 965 vibration data were below the pre-trigger level of the seismograph i.e., 0.5 mm/s.
- ❖ The recorded blast-induced ground vibration data were in the range of 0.554 mm/s to 13.38 mm/s. The radial distances of blast vibration monitoring point from the blasting face were in the range of 232 to 1778 m.
- ❖ The maximum vibration recorded was 13.38 mm/s with dominant peak frequency of 45.44 Hz near Admin building of Kayad Mine. In the same blast vibration recorded at Mine boundary near Sultan House of Kayad mine was 2.556 mm/s with dominant peak frequency of 18.19 Hz.
- ❖ The recorded dominant peak frequencies of vibration were in the range of 17.88 - 204.8 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 65.25 Hz. Hence, the safe limit of ground vibration (PPV) for the safety of houses and other structures at Kayad village has been taken as 15 mm/s as per the DGMS standard. The recorded vibration levels in the Kayad village due to blasting at Kayad mine were well within the safe limits.
- ❖ There is no danger of damage to the existing houses/structures of Kayad village from the blasting operations being carried out in underground development, raise and ring blasts of South and North section of Kayad underground mine.

Acknowledgements

The research team is thankful to the management of Kayad mine for sponsoring the study. The sincere co-operation and help extended to the team by the all-concern Mine officials in completing the study successfully are thankfully acknowledged. The research team also expresses his gratitude to the villagers of Kayad village for their cooperation in blast vibration monitoring.


14/11/2024

(Murari P Roy)
Chief Scientist & Project Leader
Rock Excavation Engineering Division


14/11/2024

(C. Sawmliana)
Chief Scientist & HoS
Rock Excavation Engineering Division

Sustainable Livelihood

☐ Zinc Kaushal Kendra

Zinc Kaushal Kendra, Kayad has been initiated with the purpose of providing employment to the youth in the trades of assistant electrician, microfinance and customer relationship manager as well as inculcating industry relevant skills among them. The Zinc Kendra, Kayad has trained more 500+ youth till now with an average placement package of 12k+.

☐ Samadhan

The main objective of this project is to provide sustainable livelihood to the farmers in core as well as in periphery villages through integrated farming system and livestock development.

More than 1200 farmers are the beneficiary of this project



Education



HINDUSTAN ZINC
Zinc & Silver of India

❑ 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.

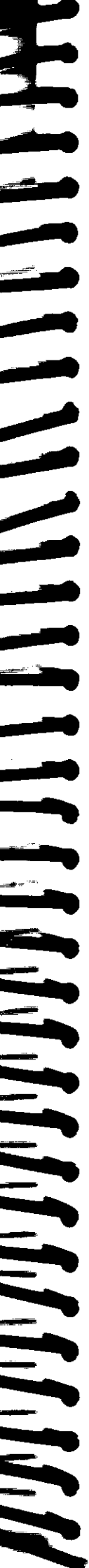
❑ Nandghars

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



HINDUSTAN ZINC
Zinc & Silver of India

123456789101112131415161718192021222324252627282930313233343536373839404142434445464748495051525354555657585960616263646566676869707172737475767778798081828384858687888990919293949596979899100

☐ 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.

