

HZL/SKM/ENV/2023/EC Comp/ **199**17th November, 2023

To,

✓ The Deputy Director(s) / Scientist -C,
Ministry of Environment, Forest and Climate Change,
Integrated Regional Office, Jaipur,
A-209 & 218, Aranya Bhawan, Mahatma Gandhi Road,
Jhalana Institutional Area, Jaipur (Raj.) – 304002.

Sub.: Half yearly EC compliance report of Sindesar Khurd Mine for the period of
April 2023 to September 2023.

Ref.: Environmental Clearance vide no. J-11015/7/2017-IA.II (M) dated 31.05.2018

Sir,

With reference to aforesaid subject and cited references, it is to inform that we are herewith submitting six monthly Compliance report for the conditions stipulated in the Environment Clearances of Sindesar Khurd Mine for the period from **April 2023 to September 2023**.


The copy of above compliance report is also being sent in soft format through email to (roc_zlko-mef@gov.in; m_env@rediffmail.com) for your kind perusal. Also copy of Sindesar Khurd Mine EC Compliance has been uploaded on company website <https://www.hzindia.com/sustainability/environment-compliance/>

We trust that the measures taken towards environmental safeguards comply with the stipulated environmental conditions. We look forward to your further guidance which shall certainly help us in our endeavor for further improve upon our Environmental Management Practices.

Hope the above are in line with statutory requirements.

Thanking you,

Yours faithfully,


Anshul Kumar Khandelwal
Unit Head & Authorized Signatory
Sindesar Khurd Mines, HZL.

Unit Head
Sindesar Khurd Mine
Hindustan Zinc Limited
P.O. Damba-313211
Dist. Rajsamand (Raj.)

Copy to:

1. In-charge, (Zonal Office),
Central Pollution Control Board,
Parivesh Bhawan, Paryavaran Parisar,
E-5, Arera Colony, Bhopal (MP)-462016.
2. The Member Secretary,
Rajasthan State Pollution Control Board,
4th, Institutional Area, Jhalana Doongari,
Jaipur (Raj.) – 302004
3. Regional Officer,
Rajasthan State Pollution Control Board,
Old Building of District Excise Office,
Kalalwati, Rajnagar,
Rajsamand (Raj.)-313324.

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Name of the Project: Sindesar Khurd Mine
(Hindustan Zinc Ltd.)
Village: Sindesar Khurd,
PO Dariba, Tehsil : Railmagra,
Dist.: Rajsamand. Rajasthan – 313211.

Clearance Letter No.: J-11015/7/2017-IA.II(M) dated 31.05.2018.

Period of Compliance: April 2023 to September 2023.

Sr No	Condition	Compliance Status
A.	Specific Condition	
1	Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court of Rajasthan and any other Court of Law, if any, as may be applicable to this project.	Noted.
2	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 for this Mining Project. Core & Buffer zone area of this project has no National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Tiger/Elephant Reserves. The copy of letter issued by Office of DFO, Rajsamand is enclosed as Annexure – I .
3	No mining activities will be allowed in forest area, if any, for which the Forest Clearance is not available.	Not applicable for this project, as all Mining Activities comes under Non-Forest Area.
4	The project proponent shall obtain Consent to Operate from the State Pollution Control Board, Rajasthan and effectively implement all the conditions stipulated therein.	Consent to Operate has been obtained from SPCB and compliance of the conditions given in same are being ensured.
5	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 ponds in the mining area may be made. Project Proponent should display the result digitally in front of the main Gate of the mine site.	3 nos. online monitoring stations installed at site results of the same are being displayed at the main gate. Apart from this Monthly AAQ monitoring from 5 locations from core and buffer zone is being done. Provision to measure pH and turbidity at water ponds and display of the same at main gate has been made. Latest AAQ monitoring reports are attached here in Annexure -II .
6	The Project Proponent has to take care of gullies formed on slopes. Dump mass should be consolidated with proper filling/levelling with the help of dozer/compactors. The	Regular monitoring of slope stability of waste dump mass is being done. The waste dump consolidation is

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	report on slope and stability monitoring should be sent to MoEF&CC and its Regional office every six-months.	being done by compactor and dozer on regular basis. The Survey of waste dump is carried out regularly and records maintained. Report of slope and stability monitoring is being submitted along with half year compliance report. Latest report is enclosed as Annexure - III .
7	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 adopted to that micro climate. This may be recommended to be studied by hiring Expert Ecology Group.	At present waste dump is in active stage. On maturity of waste dump, it will be reclaimed in scientific manner. Waste rock generated from mining is being used for filling of mine voids. Waste remained during closure will be filled back in mine voids at the time of mine closure and scientific reclamation by plantation of suitable species will be ensured at waste dump.
8	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 for assessing impact of heavy metals on crop, vegetable, surface water, silt aquatic life etc. been conducted and Heavy metals are found within the limit. Regular monitoring/ study is being done. Copy enclosed as Annexure – IV .
9	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.	Ecological survey in the surrounding area has been carried out. No impact due to mining operation was observed. Regular monitoring/ study is being done. Copy enclosed as Annexure – IV .
10	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 of employees conducted & no impact has been observed irrespective of depth of working. Apart from this, all workers are also regularly undergone through initial and periodical medical examinations.
11	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	Blast design is being done as per recommendations of CIMFR keeping public infrastructure in view. Due

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	neighbourhood. 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.	care is taken in designing the blast, optimizing the explosives, selection of detonators and delay to ensure safe vibration limit on surface. Vibration study for each blast is being carried out regularly by CSIR-CIMFR, Dhanbad.
12	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.	Being complied, Permanent water sprinkler is provided for main haulage road. Transfer points, loading and unloading points of Ores and roads is being ensured. Dust Extraction systems have been installed in Crushers. All the conveyors are covered to minimise the dust emission. Trial with addition of reagent with water to improve dust suppression has been carried out and sprinkling of the same is being ensured regularly. Heavy duty road sweepers are deployed permanently, and regular road sweeping is being ensured. Avenue plantation along with roads and other areas of mines ensured to mitigate impact of dust. Network of conveyors has been established and shaft has been commissioned, installation of additional crusher in underground is ensured to reduce vehicle movement for Ore movement and dust emission due to vehicle movement.
13	The monitoring of PM 2.5 in the vehicle emission shall be conducted to improve the mine environment and report submitted to the Regional Office of the MoEF & CC.	We are exploring possibility of monitoring the same. We have also submitted request for exemption of this condition to MoEF&CC by our letter No. SKM/ENV/2020/02/396 dated 19.02.2020. Copy enclosed as Annexure – V .
14	Project proponent shall compensate all 581 identified families for land and construction cost, i.e. 3 times of DLC rate for land and 3 times of PWD rate for construction will be provided. Rehabilitation site with construction of roads, community centre, school, hospital and other	Details action plan and SOP has been made to relocate the village. Core Team has been formed to ensure progress of shifting. Marking of site and Construction of roads has been

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	infrastructures will be provided. The PP has confirmed that equal land will be given as a part of displacement.	completed. Construction of Community centre and temple is under progress. Provision of school, Hospital and other infrastructure is included in plan. Action plan includes more than 3 times DLC rate of land, more than 3 times of PWD rates for construction and land more than existing area for each family of village. Note on progress is enclosed as Annexure – VI.
15	Implementation of conservation of all Schedule-I species as per revised plan submitted to DFO-Rajsamand for approval vide letter no. SKM/ENV/DFO/2018/01 dated 09.01.2018 with budgetary provision of Rs. 2 Crore. 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 of Schedule-I species was submitted to DCF, Rajsamand on 09.01.2018 and then after forwarded on 07.02.2019 to CCF – wildlife office Udaipur and later on CWLWL at Jaipur. The same was submitted to regional office along with 1st EC compliance report in 2018.</p> <p>Meanwhile, State forest Department has released new SOP for processing of conservation plan. Accordingly, revised conservation plan has been prepared and submitted to DCF-Rajsamand on 26th May 2020 which after responding initial queries, has been forwarded to PCCFWL, Jaipur on 27.07.2021.</p> <p>As per the direction received from DCF Rajsamand dated 30.03.2022 and as per the revised SOP for WLCP, we have revised the WLCP cost and the balance administrative fee of Rs. 170.2 Lakh has also been submitted into RPACS account. Total 210.2 Lakhs administrative fee submitted for the approval of WLCP and same is under process of approval for further implementation. Copy of forwarding letter is enclosed as Annexure- VII.</p>
16	Implementation of action plan on remedial and preventive actions for lead contamination on human health for the community in consultation with experts with budgetary provisions of Rs 50 Lakhs for conducting various programs in connection to Lead.	<p>Action plan has been made. Awareness programs conducted.</p> <p>In addition to this, High capacity (1500 Liter/Hr) community ROs have been installed at Kothdi, Mehanduriya, Kabra, Gawardi, Rajpura and Railmagra villages.</p>

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		These community RO are further having a distribution network of 16 Water ATMs in surrounding villages, which are provided for meeting the safe drinking water requirement of surrounding villages/ community.
17	PP shall run an awareness campaign on sanitation for women and utilization of Sanitary Napkin and also to distribute the Sanitary Napkin/pads to the women and provide the training for proper disposal.	Being Complied, We have collaborated with “Manjari Foundation” under Sakhi project along with medical professional of Govt. Health Dept., who have conducted awareness camps in surrounding villages covering women and school female students. The same is under progress in other villages and sanitary napkins provided. Copy of latest awareness campaign is enclosed as Annexure- VIII .
18	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.	Actions are being taken as per action plan.
19	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.	Blast design Study by CSIR-CIMFR and implementation of outcomes are being ensured.
20	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 Programme.	Being complied, Monitoring of radioactive elements is being ensured and Periodic monitoring of persons is also being done. The report of the same is being submitted along with half yearly compliance report. Copy of latest report is attached here as Annexure - IX .

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.	Noted and shall be complied as of now, Mine is in operation. Shall be ensured before closure.

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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.	Work is being done as per Mine plan approved by IBM.
3	No change in the calendar plan including excavation, quantum of mineral and waste should be made.	No change is being done without prior approval.
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.	<p>No ground water withdrawal is being done. HZL has established STP to treat the sewage of Udaipur City and treated water from the same is main source of water for mining process and also HZL has agreement with State government for Matrikundia Dam water.</p> <p>NOC for dewatering has been accorded by CGWA for 121 m³/day vide NOC no. CGWA/NOC/MIN/REN/1/2021/6437. Additional 110.15 m³/day vide NOC No. CGWA/NOC/MIN/ORIG/2021/13239.</p> <p>As per approval received from CGWA for merging of NOC, we have applied renewal application for combined quantity dated 19.08.2023. Copy enclosed as Annexure - X).</p>
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).	Mining operations are being ensured as per mine plan approved by IBM and DGMS guidelines.
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.	The same will be ensured. At present mining is being ensured within specified and approved area.
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.	The latest digital mapping by remote sensing technique for monitoring of land use pattern of entire mine lease area has been conducted during June 2021. Detailed study report was submitted alongwith EC compliance report for Apr'21-Sept'21 dtd 26.11.2021. Copy of cover page of the study report is enclosed as Annex- XI.
8	The critical parameters as per the Notification 2009 such as PM ₁₀ , PM _{2.5} , NO _x and SO _x 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	<p>Being Complied,</p> <p>Our Mine is underground mine. However, all said parameters with peak particle velocity are being monitored. Zero discharge is maintained by</p>

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	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. J- 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.	Recycling in operations. All the Data as per the circular No. J-20012/1/2006-IA. II (M) dated 27.05.2009 is being displayed on company website and Ambient Air Monitoring data of online monitoring stations is being displayed at main gate.
9	Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM10 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 by the Central Pollution Control Board in this regard. Monitoring of Ambient Air Quality to be carried out based on the Notification 2009, as amended from time to time by the Central Pollution Control Board.	Being Complied, 3 nos. online monitoring stations installed at site results of the same are being displayed at the main gate. Apart from this Monthly AAQ monitoring from 5 locations from core and buffer zone is being done as per AAQ notification 2009. Water sprinkling on loading and unloading points, transfer points is being done. Permanent water sprinklers are provided at Crushers with venturi spray. Haul roads are being wetted through mobile water sprinkler. Conveyors are covered. Transfer points have dust control system. In addition to above, sprinkling of water through tanker with special reagent to suppress the dust on haul road areas by increasing moisture for settling of dust is being ensured. Photo enclosed as Annexure – XII .
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.	Being Complied, No natural water course is flowing through mining lease hence no such obstruction is done due to mining operations. Network has been established to monitor ground water in and around the mines. Regular monitoring is being carried out and reports are submitted to respective regulatory departments with periodical compliance reports. Copy of monitoring reports are enclosed as Annexure – XIII .
11	Regular monitoring of the flow rate of the springs and perennial nallahs 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	Being Complied, No natural water bodies or streams flowing in and around village is

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	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.	disturbed. Network has been established to monitor ground water table in and around the mines and regular monitoring is being carried out. Water supply to some villages is being done. The same will be expanded during scarcity.
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.	Complied, Regular monitoring is carried out & reports are being submitted. Copy enclosed as Annexure – XIII .
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.	Ore produced from the mines is being treated in Ore beneficiation plant available in the same premises. Necessary precautions are being taken care to minimise impact due to transportation of minerals. Avenue plantation in both sides of roads is developed and PUC certificates for all vehicles are being ensured. All transportation vehicles are covered by tarpaulin. Special safety trainings are being imparted to all drivers with reference to our HZLs internal safety standard “Vehicle and Driving Safety”. Water sprinkling is being done on the haul roads for dust suppression. Noise is being controlled by equipment designing stage. Widening of road outside mine area has been done.
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.	Majority of the mining operations are being done in day time. Illumination is being maintained as such way that there will not be any impact on surrounding villages. Mask lights are established accordingly. Monitoring of noise (Day/Night) is being done. Copy enclosed as Annexure - XIV . Necessary precaution is taken during taken during equipment design stage to minimise the impact of noise. DG sets and other equipment's are ensured with Acoustic enclosure and others are

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		located in closed shed to minimise the impact of noise in surrounding.
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 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.	Being Complied, Permanent water sprinklers are provided at main haul road ,Crushers and conveyors. Conveyors are covered. Transfer points have dust control system. In addition to above, Also Successful trials have been taken to use “Dustron” the reagent suppress the dust on haul road areas by increasing moisture for settling of dust and found effective and started using the same. Plantation is done to minimise the impact of 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 basis.	Our Mine is underground mine. Network of Drains and ponds are provided to collect surface run-off from dump and other areas in mine premises. It also avoids flow of sediments directly natural water bodies. Water is being recycled after necessary precaution of settling of silt material connected through retaining wall / garland drain and desiltation pit.
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.	Deepening of village 17 village ponds and construction of 4 anicuts has been done in different phases to improve water conservation by creating additional volume of 3.88 lakh M3. Copy of photo attached as Annex - XV .
18	The Project Proponent has to take care of gullies formed on slopes. Dump mass should be consolidated with proper filling/levelling with the help of dozer/compactors.	Regular monitoring of slope stability of waste dump mass is being done. The waste dump consolidation is being done by compactor and dozer on regular basis. The Survey of waste dump is carried out regularly and records maintained. Drain with ponds are provided to collect water. Report of slope and stability monitoring is being submitted along with half year compliance report. Latest report is enclosed as Annex-III .
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	Noted and shall be complied, At present waste dump is in active stage. On maturity, inactive waste

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	<p>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 adopted to that micro climate.</p>	<p>dump will be reclaimed in scientific manner. Waste rock generated from mining is being used for filling of mine voids and being used in construction work of height raising in tailing dam. Waste remained during closure will be filled back in mine voids at the time of mine closure and scientific reclamation by plantation of suitable species will be ensured at waste dump.</p>
20	<p>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 60m 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 run off. In critical areas, use of geo textiles shall be undertaken for stabilization of the dump. The entire excavated area shall be backfilled and afforested. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office on six monthly basis.</p>	<p>Being underground mine and is in operation. No top soil removal is envisaged. However necessary precautions will take care for the same. At present waste dump is in active stage. Prescribed height, width and angle is being maintained. Inactive waste dump will be reclaimed in scientific manner. Waste rock generated from mining is being used for filling of mine voids. Waste remained during closure will be filled back in mine voids at the time of mine closure voids at the time of mine closure and scientific reclamation by plantation of suitable species will be ensured at waste dump.</p>
21	<p>Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, mineral and OB dumps to prevent run off of water and flow of sediments directly into the river and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly. The drains, settling tanks and check dams of appropriate size, gradient and length shall be constructed both around the mine pit and over burden dumps to prevent run off of water and flow of sediments directly into the river and other water bodies and sump capacity should be designed keeping 50 safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material. Sedimentation pits shall be constructed at the corners of the garland drains and desilted at regular intervals.</p>	<p>No natural watercourse is obstructed during mining operations. Catch drains for mine working and mineral dump provided to prevent water run-off and flow of sediments directly natural water bodies. Water is being recycled after necessary precaution of settling of silt material through retaining wall /garland drain and desiltation pit. Zero liquid discharge is being ensured.</p>

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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>The plantation has been carried out of species as per guidance from DFO for available areas to make green belt. Till date 107700 nos of new plants have been planted within mine lease to cover more than 33% area under plantation. Total 2850 nos of new plants have been planted during FY 2023-24 (till date). Further, system of gap filling plantation against plant mortality is in place. Majorly planted species are Cassia Siamea, neem (Azadirachta indica), Saptparni (Alstonia Scholaris), karanj (Ficus Pinnata), Silver oak, Shisham, Ber (Ziziphus mauritiana), Kachnar, dhaak (Butea monosperma), Amaltas (cassia fistula), Bauhinia (Bauhinia purpurea), etc.</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>All the requirement of said office memorandum is already covered in various condition of this Environment Clearance letter. Accordingly, compliance status is also given for each condition.</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.</p> <p>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>No livestock grazing or acquisition of grazing land is envisaged. Hence Not Applicable.</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>Conservation plan of Schedule-1 species was submitted to DCF, Rajsamand on 09.01.2018 and then after forwarded on 07.02.2019 to CCF – wildlife office Udaipur and later on CWLWL at Jaipur. The same was submitted to regional office along with 1st EC compliance report in 2018.</p> <p>Meanwhile, State forest Department has released new SOP for processing of conservation plan. Accordingly, revised conservation plan has been</p>

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		<p>prepared and submitted to DCF-Rajsamand on 26th May 2020 which after responding initial queries, has been forwarded to PCCFWL, Jaipur on 27.07.2021.</p> <p>As per the direction received from DCF Rajsamand dated 30.03.2022 and as per the revised SOP for WLCP, we have revised the WLCP cost and the balance administrative fee of Rs. 170.2 Lakh has also been submitted into RPACS account. Total 210.2 Lakhs administrative fee submitted for the approval of WLCP and same is under process of approval for further implementation. Copy of forwarding letter is enclosed as Annexure- VII.</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 neighbourhood 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 basis.</p>	<p>Being Complied,</p> <p>Dedicated team is available at location to implement the CSR projects identified based on survey conducted by reputed organizations. Progress and quality of Implementation of the same is being is being verified in defined frequency by agency appointed by corporate office.</p> <p>As per SOP of base line survey (Need based door to door) needs to be done every 3 years "Latest survey was done through "KPMG" organization in current financial year. Final report is awaited. Basis the findings and suggestions appropriate actions will be taken. Annexure – XVI.</p>
27	<p>The Ministry has issued a circular vide no. 22-65/2017-IA.III, dated 1st May2018 on Corporate Environment Responsibility (CER). Accordingly, PP shall comply the circular w.r.t. details of budget and its activities.</p>	<p>Noted and being complied with.</p>
28	<p>Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.</p>	<p>Being Complied,</p> <p>As per our safety policy, we do not provide accommodation for housing at the site. The same is being provided away from the site by our projects contractors with all necessary infra structures. Also infrastructures like Bio-Toilets, safe drinking water and</p>

Compliance Report of Environmental Clearance

		medical health care is being ensured at site.
29	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.	Being Complied, Necessary measures have been taken to control the noise levels below 85 dBA. All DGs are having acoustic enclosure. Other noise generating equipment's are placed in closed building in isolated. PPEs including ear plugs/muffs are provided to workers engaged in operations of HEMM, etc.
30	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 effluent.	Mine water is reused in operations. Oil and grease trap systems provided in workshop and water is being reused for further operations. Treatment and Quality of the same is being ensured as per prescribed standard.
31	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.	Being Complied, Job and area specific Training with necessary information to all employees is being imparted in regular intervals and PPEs are also provided.
32	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.	Complied, Separate Environmental Management Cell is in place.
33	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.	Sufficient Fund is being allocated for Environment protection for every financial year and not been diverted for other purpose. Following is the detail of environmental Expenditure for years: 2018-19 was Rs. 2,62,28,280/- 2019-20 was Rs. 1,27,39,126/- 2020-21 was Rs. 1,15,77,379/- 2021-22 was Rs. 3,23,51,588/- 2022-23 was Rs. 2,17,79,658/- 2023-24 was Rs.1,33,19,046/- (till Sept'23)
34	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.	Being complied, expansion project, all approvals are in place.

Compliance Report of Environmental Clearance

35	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, Half yearly reports are being submitted regularly within prescribed time. Copy of cover letter of previous compliance report dtd 22.05.2023 is enclosed as Annexure – XVII.
36	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.	Noted for Compliance.
37	A copy of clearance letter will be marked to concerned Panchayat / local NGO, if any, from whom suggestion / representation has been received while processing the proposal.	Complied, Letter has been sent to local panchayat on 04 June 2018.
38	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.	Noted.
39	The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of the Ministry of Environment, Forest and Climate Change at www.environmentclearance.nic.in and a copy of the same should be forwarded to the Regional Office.	Complied, Published on 06.06.2018 in Rajasthan Patrika & Danik Bhaskar Rajsamand Edition. Copy of the same has been already submitted to MoEF&CC along half yearly EC compliance report. Copy enclosed as Annexure – XVIII.
16	The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.	Noted and shall be complied
17	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.	Noted.
18	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.	Noted and shall be complied

Compliance Report of Environmental Clearance

19	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.	Noted.
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कार्यालय उप वन संरक्षक, राजसमन्द

Sadhna Sikhar Road, Rajsamand

Phone & Fax No. 02952-220096 Email- dcf.rismnd.forest@rajasthan.gov.in

क्रमांक: पत्रा () सर्वे/उवसं/2017-18/

3721

दिनांक: 22-9-17


निमित्त :-

यूनिट हेड
सिन्देसर खुर्द माईन
हिन्दुस्तान जिंक लि०
जिला राजसमन्द।

विषय :- Certificate for Non-involvement of National Park, Sanctuary, Biosphere Reserve, Wild life corridor, Tiger/Elephant Reserves in Core and Buffer Zone. (10 km radius of Sindesar Khurd Mine, M.L. No. 07/95)

संदर्भ :- आपका पत्रांक HZL/SKM/Env/2017/08/42 Date : 29.08.2017 के क्रम में।

उपरोक्त विषयान्तर्गत संदर्भित पत्र में वर्णित एम.एल. नम्बर 07/95 सिन्देसर खुर्द माईन के चारों तरफ 10 किमी० की परिधि में National Park, Sanctuary, Biosphere Reserve, Wild life corridor, Tiger/Elephant Reserves in Core and Buffer Zone क्षेत्र नहीं पड़ता है।


(कुमार स्वामी गुप्ता)
उप वन संरक्षक
राजसमन्द



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

TEST REPORT

Report No./ULR No. :	TC502523400001022.	Date :	24-04-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	07-04-2023 12:10 to 08-04-2023 12:10
Point of Collection :	Bamania Kalan Village (Residential Area) (25°02.314"N, 074°09.309"E)	Date of Receipt :	15-04-2023
Date of Test/Analysis :	15-04-2023 to 22-04-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	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]	15.39	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	152.16	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	35.43	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	3.28	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	71.32	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.

Senior Analyst
Puran Mal Yogi

Authorized Signatory
(Report No: TC502523400001022.)



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TEST REPORT

Report No./ULR No.:	TC502523400001023.	Date :	24-04-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	07-04-2023 12:11 to 08-04-2023 12:11
Point of Collection :	Sindesar Khurd Village (Residential Area) (25°00.311"N,074°08.372"E)	Date of Receipt :	15-04-2023
Date of Test/Analysis :	15-04-2023 to 22-04-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	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]	15.53	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	129.28	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	35.36	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	3.89	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	68.89	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst

Pradeep Mal Yogi

Authorized Signatory

(Report No: TC502523400001023.)



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TEST REPORT

Report No./ULR No. :	TC502523400001024.	Date :	24-04-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	07-04-2023 12:12 to 08-04-2023 12:12
Point of Collection :	Rajpura Village, Sindesar Khurd Mine (Residential Area) (24°58.331"N, 074°07.746"E)	Date of Receipt :	15-04-2023
Date of Test/Analysis :	15-04-2023 to 22-04-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	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]	15.37	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	140.79	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	35.91	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	4.73	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	79.82	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst

Puran Mal Yogi

Authorized Signatory

(Report No: TC502523400001024.)



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TEST REPORT

Report No./ULR No. :	TC502523400001025.	Date :	24-04-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	09-04-2023 12:14 to 10-04-2023 12:14
Point of Collection :	Mine Area Boundary in NE Direction (Industrial Area) (25°00.381"N, 074°08.804"E)	Date of Receipt :	15-04-2023
Date of Test/Analysis :	15-04-2023 to 24-04-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	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]	320	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	14.36	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	137	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	35.82	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	4.24	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	77.87	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst **Mal Yogi**

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TEST REPORT

Report No./ULR No. :	TC502523400001026.	Date :	24-04-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	09-04-2023 12:15 to 10-04-2023 12:14
Point of Collection :	Near Encline (Acquired Area)-Industrial Area (25°00.118"N, 074°08.710"E)	Date of Receipt :	15-04-2023
Date of Test/Analysis :	15-04-2023 to 22-04-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	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]	350	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	15.32	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	135.42	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	33.43	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	5.52	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	75.41	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: TC502523400001026.)



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TEST REPORT

Report No./ULR No. :	TC502523400001027.	Date :	24-04-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	07-04-2023 12:16 to 08-04-2023 12:15
Point of Collection :	Near Tailling Dam (24°57.495'N, 74°08.842'E)	Date of Receipt :	15-04-2023
Date of Test/Analysis :	15-04-2023 to 22-04-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	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]	14.98	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	128.54	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	25.52	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	6.33	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	64.77	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst **Mal Yogi**

Authorized Signatory
(Report No: TC502523400001027.)



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

TEST REPORT

Report No./ULR No. :	TC502523400001443	Date :	02-06-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	17-05-2023 11:07 to 18-05-2023 11:07
Point of Collection :	Bamania Kalan Village (Residential Area) (25°02.314"N, 074°09.308"E)	Date of Receipt :	24-05-2023
Date of Test/Analysis :	24-05-2023 to 02-06-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram Jangid
Unit's representative :	Mr Sunil Chouhan	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]	12.6	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	115.68	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]	4.81	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	82.64	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst
Purat Mal Yogi

Authorized Signatory
Rajesh Malleshwar
(Report No: TC502523400001443)



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TEST REPORT

Report No./ULR No. :	TC502523400001444	Date :	02-06-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	17-05-2023 11:08 to 18-05-2023 11:08
Point of Collection :	Sindesar Khurd Village (Residential Area) (25°00.311'N, 074°08.372'E)	Date of Receipt :	24-05-2023
Date of Test/Analysis :	24-05-2023 to 02-06-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram Jangid
Unit's representative :	Mr Sunil Chouhan	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/m ³]	280	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO ₂ [microgram/m ³]	15.79	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m ³]	135.3	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM _{2.5}) [microgram/m ³]	31.74	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m ³]	5.48	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM ₁₀) [microgram/m ³]	70.06	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.

Senior Analyst

Puri
Puri Mal Yogi

Authorized Signatory

Raj
Rajesh Manchwan
(Report No: TC502523400001444)



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TEST REPORT

Report No./ULR No. :	TC502523400001445	Date :	02-06-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	17-05-2023 11:09 to 18-05-2023 11:09
Point of Collection :	Rajpura Village, Sindesar Khurd Mine (Residential Area) (24°58.331"N, 074°07.746"E)	Date of Receipt :	24-05-2023
Date of Test/Analysis :	24-05-2023 to 02-06-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram Jangid
Unit's representative :	Mr Sunil Chouhan	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]	13.29	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	119.15	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	34.64	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]	74.77	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst

Puran Mal Yogi

Authorized Signatory

Rajesh Maneshwan
(Report No: TC502523400001445)



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TEST REPORT

Report No./JLR No. :	TC502523400001446	Date :	02-06-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	18-05-2023 11:10 to 19-05-2023 11:09
Point of Collection :	Mine Area Boundary in NE Direction (Industrial Area) (25°00.381"N, 074°08.804"E)	Date of Receipt :	24-05-2023
Date of Test/Analysis :	24-05-2023 to 02-06-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram Jangid
Unit's representative :	Mr Sunil Chouhan	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]	15.15	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	146.05	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	31.2	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]	71.47	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst

Puran Mal Yogi

Authorized Signatory

Rajesh Maheshwar
(Report No. TC502523400001446)



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TEST REPORT

Report No./ULR No. :	TC502523400001447	Date :	02-06-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	18-05-2023 11:10 to 19-05-2023 11:10
Point of Collection :	Near Endline (Acquired Area)-Industrial Area (25°00.118"N, 074°08.710"E)	Date of Receipt :	24-05-2023
Date of Test/Analysis :	24-05-2023 to 02-06-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram Jangid
Unit's representative :	Mr Sunil Chouhan	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]	14.27	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	126.31	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	27.64	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	5.59	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	73.53	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst

Puran Mal Yogi

Authorized Signatory

Rajesh Marudhwan
(Report No: TC502523400001447)



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TEST REPORT

Report No./ULR No. :	TC502523400001448	Date :	02-06-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	18-05-2023 11:11 to 19-05-2023 11:11
Point of Collection :	Near Tailling Dam (24°57.495'N, 74°08.842'E)	Date of Receipt :	24-05-2023
Date of Test/Analysis :	24-05-2023 to 02-06-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram Jangid
Unit's representative :	Mr Sunil Chouhan	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]	15.26	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	132.52	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	40.6	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	4.91	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	72.26	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst

Purush Mal Yogi

Authorized Signatory
(Report No: TC502523400001448)



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TEST REPORT

Report No./ULR No. :	TC502523400001569	Date :	17-06-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	08-06-2023 16:51 to 09-06-2023 16:51
Point of Collection :	Bamania Kalan Village (Residential Area) (25°02.314"N, 074°09.309"E)	Date of Receipt :	12-06-2023
Date of Test/Analysis :	12-06-2023 to 16-06-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	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]	16.33	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	138.52	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	26.07	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	6.34	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	72.53	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: TC502523400001569)



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TEST REPORT

Report No./ULR No. :	TC502523400001570	Date :	17-06-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	08-06-2023 16:52 to 09-06-2023 16:51
Point of Collection :	Sindesar Khurd Village (Residential Area) (25°00.311"N,074°08.372"E)	Date of Receipt :	12-06-2023
Date of Test/Analysis :	12-06-2023 to 16-06-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	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]	14.55	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	153.47	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	29.45	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	5.55	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	79.66	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Purnan Mal Yogi
Senior Analyst

Rajesh Maheshwar
Authorized Signatory
(Report No: TC502523400001570)



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TEST REPORT

Report No./ULR No. :	TC502523400001571	Date :	17-06-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	08-06-2023 16:52 to 09-06-2023 16:52
Point of Collection :	Rajpura Village, Sindesar Khurd Mine (Residential Area) (24°58.331"N, 074°07.746"E)	Date of Receipt :	12-06-2023
Date of Test/Analysis :	12-06-2023 to 16-06-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	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]	15.71	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	149.03	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	27.78	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	6.76	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	75.08	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Puran Mal Yogi
Senior Analyst

Rakesh Maheshwari
Authorized Signatory
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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523400001572	Date :	17-06-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	09-06-2023 16:54 to 10-06-2023 16:54
Point of Collection :	Mine Area Boundary in NE Direction (Industrial Area) (25°00.381"N, 074°08.804"E)	Date of Receipt :	12-06-2023
Date of Test/Analysis :	12-06-2023 to 16-06-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	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]	450	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	14.7	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	144.85	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	30.86	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	5.05	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	72.04	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.

Purni Mal Yogi
Senior Analyst

Rajesh Maheshwar
Authorized Signatory
(Report No: TC502523400001572)



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TEST REPORT

Report No./ULR No. :	TC502523400001573	Date :	17-06-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	09-06-2023 16:55 to 10-06-2023 16:55
Point of Collection :	Near Encline (Acquired Area)-Industrial Area (25°00.118"N, 074°08.710"E)	Date of Receipt :	12-06-2023
Date of Test/Analysis :	12-06-2023 to 16-06-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	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]	420	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	14.95	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	121.09	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	33.57	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	4.97	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	69.14	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: TC502523400001573)



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

TEST REPORT

Report No./ULR No. :	TC502523400001574	Date :	17-06-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	09-06-2023 16:57 to 10-06-2023 16:56
Point of Collection :	Near Tailing Dam (24°57.495'N, 74°08.842'E)	Date of Receipt :	12-06-2023
Date of Test/Analysis :	12-06-2023 to 16-06-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	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]	15	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	134.64	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	34.29	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	4.36	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	75.01	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwar
Authorized Signatory

(Report No: TC502523400001574)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	23400001870	Date :	05-08-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	24-07-2023 11:11 to 25-07-2023 11:11
Point of Collection :	Bamania Kalan Village (Residential Area) (25°02.314"N, 074°09.309"E)	Date of Receipt :	02-08-2023
Date of Test/Analysis :	02-08-2023 to 05-08-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Chouhan	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]	11.47	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	103.15	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	23.91	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	5.71	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	47.67	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwar
Authorized Signatory
(Report No: 23400001870)



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TEST REPORT

Report No./ULR No. :	23400001871	Date :	05-08-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	24-07-2023 11:12 to 25-07-2023 11:13
Point of Collection :	Sindesar Khurd Village (Residential Area) (25°00.311"N, 074°08.372"E)	Date of Receipt :	02-08-2023
Date of Test/Analysis :	02-08-2023 to 05-08-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Chouhan	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]	11.65	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	107.45	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	17.57	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	5.39	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	52.85	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Purani
Puran Mali Yogi
Senior Analyst

Rajesh
Rajesh Maneshwar
Authorized Signatory
(Report No: 23400001871)



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TEST REPORT

Report No./ULR No.:	23400001872	Date :	05-08-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	24-07-2023 11:14 to 26-07-2023 11:14
Point of Collection :	Rajpura Village, Sindesar Khurd Mine (Residential Area) (24°58.331"N, 074°07.746"E)	Date of Receipt :	02-08-2023
Date of Test/Analysis :	02-08-2023 to 05-08-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Chouhan	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]	10.75	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	109.04	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	21.92	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]	45.59	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Purnan Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 23400001872)



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TEST REPORT

Report No./ULR No. :	23400001873	Date :	05-08-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	25-07-2023 11:15 to 26-07-2023 11:16
Point of Collection :	Mine Area Boundary in NE Direction (Industrial Area) (25°00.381"N, 074°08.804"E)	Date of Receipt :	02-08-2023
Date of Test/Analysis :	02-08-2023 to 05-08-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Chouhan	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]	12.71	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	84.4	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	20.42	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	5.26	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	48.08	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Purnan Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 23400001873)



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TEST REPORT

Report No./ULR No.:	23400001874	Date :	05-08-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	25-07-2023 11:18 to 26-07-2023 11:18
Point of Collection :	Near Encline (Acquired Area)-Industrial Area (25°00.118"N, 074°08.710"E)	Date of Receipt :	02-08-2023
Date of Test/Analysis :	02-08-2023 to 05-08-2023	Sampling Plan :	IS 5182:2000(Part 14)/RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Chouhan	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]	15.58	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	93.51	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	19.84	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	6.95	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	44.21	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Purni Mal Yogi
Senior Analyst

Rajesh Maheshwari
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(Report No: 23400001874)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No.:	23400001875	Date :	05-08-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	25-07-2023 11:19 to 26-07-2023 11:19
Point of Collection :	Near Tailing Dam (24°57.495'N, 74°08.842'E)	Date of Receipt :	02-08-2023
Date of Test/Analysis :	02-08-2023 to 05-08-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Chouhan	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]	320	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	15.93	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	99.92	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	23	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	5.91	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	53.07	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
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(Report No: 23400001875)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No.:	23400001964	Date :	05-09-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	26-08-2023 11:50 to 27-08-2023 11:51
Point of Collection :	Bamania Kalan Village (Residential Area) (25°02.314"N, 074°09.309"E)	Date of Receipt :	29-08-2023
Date of Test/Analysis :	29-08-2023 to 04-09-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	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]	14.51	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	131.06	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	31.33	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	7.46	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	72.1	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst

Puran Mal Yogi

Authorized Signatory

(Report No: 23400001964)



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TEST REPORT

Report No./ULR No. :	23400001965	Date :	05-09-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	26-08-2023 11:52 to 27-08-2023 11:52
Point of Collection :	Sindesar Khurd Village (Residential Area) (25°00.311"N,074°08.372"E)	Date of Receipt :	29-08-2023
Date of Test/Analysis :	29-08-2023 to 04-09-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	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]	16.46	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	112.28	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	29.98	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	6.55	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	45.37	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst

Puran Mal Yogi

Authorized Signatory

(Report No: 23400001965)



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TEST REPORT

Report No./ULR No. :	23400001966	Date :	05-09-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	26-08-2023 11:53 to 27-08-2023 11:53
Point of Collection :	Rajpura Village, Sindesar Khurd Mine (Residential Area) (24°58.331"N, 074°07.746"E)	Date of Receipt :	29-08-2023
Date of Test/Analysis :	29-08-2023 to 05-09-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	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]	14.72	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	143.35	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	37.47	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	7.97	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	68.39	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Purnan Mal Yogi
Senior Analyst

Rajesh Singh Swari
Authorized Signatory
(Report No: 23400001966)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	23400001967	Date :	05-09-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	25-08-2023 11:54 to 26-08-2023 11:54
Point of Collection :	Mine Area Boundary in NE Direction (Industrial Area) (25°00.381"N, 074°08.804"E)	Date of Receipt :	29-08-2023
Date of Test/Analysis :	29-08-2023 to 05-09-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	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]	13.95	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	144.08	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	34.13	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	5.96	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	77.96	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst

Purab Mal Yogi

Authorized Signatory

(Report No: 23400001967)



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TEST REPORT

Report No./ULR No. :	23400001968	Date :	05-09-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	25-08-2023 11:56 to 26-08-2023 11:56
Point of Collection :	Near Encline (Acquired Area)-Industrial Area (25°00.118"N, 074°08.710"E)	Date of Receipt :	29-08-2023
Date of Test/Analysis :	29-08-2023 to 05-09-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	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]	15.31	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	128.68	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	32.29	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	7.71	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	65.25	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst

Puran Mal Yogi

Authorized Signatory

Rajesh Malhotra
(Report No: 23400001968)



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Report No./ULR No.:	23400001969	Date :	05-09-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	25-08-2023 11:58 to 26-08-2023 11:58
Point of Collection :	Near Tailing Dam (24°57.495'N, 74°08.842'E)	Date of Receipt :	29-08-2023
Date of Test/Analysis :	29-08-2023 to 05-09-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	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]	14.59	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	124.63	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	31.6	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	7.31	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	61.85	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: 23400001969)



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TEST REPORT

Report No./ULR No.:	23400002101	Date :	04-10-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	15-09-2023 14:38 to 16-09-2023 14:38
Point of Collection :	Bamania Kalan Village (Residential Area) (25°02.314"N, 074°09.309"E)	Date of Receipt :	25-09-2023
Date of Test/Analysis :	25-09-2023 to 03-10-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Sunil Chouhan	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]	14.37	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	131.93	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	24.76	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]	70.93	IS 5182 (Part 23)-2006 RA 2017	100.00

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Puran Mal Yogi
Senior Analyst

Sushil Kumar
Authorized Signatory
(Report No: 23400002101)



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TEST REPORT

Report No./ULR No. :	23400002102	Date :	04-10-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	15-09-2023 14:39 to 16-09-2023 14:39
Point of Collection :	Sindesar Khurd Village (Residential Area) (25°00.311"N,074°08.372"E)	Date of Receipt :	25-09-2023
Date of Test/Analysis :	25-09-2023 to 03-10-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Sunil Chouhan	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]	13.87	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	130.92	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	25.94	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]	64.53	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Puran Mahi Yogi
Senior Analyst

Sunil Kumar
Authorized Signatory
(Report No: 23400002102)



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TEST REPORT

Report No./ULR No. :	23400002103	Date :	04-10-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	15-09-2023 14:42 to 16-09-2023 14:42
Point of Collection :	Rajpura Village, Sindesar Khurd Mine (Residential Area) (24°58.331"N, 074°07.746"E)	Date of Receipt :	25-09-2023
Date of Test/Analysis :	25-09-2023 to 03-10-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Sunil Chouhan	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]	14.17	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	144.92	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	25.15	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	5.55	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	76.79	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Puran Mal Yogi
Senior Analyst


Rishi Kumar
Authorized Signatory
(Report No: 23400002103)



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TEST REPORT

Report No./ULR No. :	23400002104	Date :	04-10-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	16-09-2023 14:43 to 17-09-2023 14:43
Point of Collection :	Mine Area Boundary in NE Direction (Industrial Area) (25°00.381"N, 074°08.804"E)	Date of Receipt :	25-09-2023
Date of Test/Analysis :	25-09-2023 to 03-10-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Sunil Chouhan	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]	15.62	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	146.86	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	25.33	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	5.65	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	73.77	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Puran Mal Yogi
Senior Analyst

Sunil Kumar
Authorized Signatory
(Report No: 23400002104)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	23400002105	Date :	04-10-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	16-09-2023 14:45 to 17-09-2023 14:45
Point of Collection :	Near Endline (Acquired Area)-Industrial Area (25°00.118"N, 074°08.710"E)	Date of Receipt :	25-09-2023
Date of Test/Analysis :	25-09-2023 to 03-10-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Sunil Chouhan	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]	320	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	14.53	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	152.61	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	32.81	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	6.56	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	75.94	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Purni Mal Yogi
Senior Analyst

Banu Kumar
Authorized Signatory
(Report No: 23400002105)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	23400002106	Date :	04-10-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	16-09-2023 14:48 to 17-09-2023 14:49
Point of Collection :	Near Tailling Dam (24°57.495'N, 74°08.842'E)	Date of Receipt :	25-09-2023
Date of Test/Analysis :	25-09-2023 to 03-10-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Sunil Chouhan	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]	15.76	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	133.24	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	32.13	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	6.73	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	70.74	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Puran Mat Yogi
Senior Analyst

Sunil Kumar
Authorized Signatory
(Report No: 23400002106)



Hindustan Zinc Limited

SINDESAR KHURD MINE

INTERNAL REPORT ON WASTE DUMP STABILITY :-

Waste dump is a integral part of ground control management plan. A three-Dimensional view of the current profile of the waste dump is shown in figure 1&2. The maximum height of the dump slope is 47 metre as shown in figure 3. Photograph of the dump is shown in figure 4&5. Surface is properly levelled, and no tension cracks found. With the current bench configuration and geometry of the dump it has good stability and not have any danger of collapse. Wherever the dump boundary comes closer to a haulage road, a protective wall/parapet wall needs to be constructed against the same to avoid roll down of any waste rock into the haulage road. If the height of the dump from the original surface profile is increased more than 20 m, a bench of minimum 10 m width needs to be left prior to starting a second bench. The dump profile movements are continued to be monitored using Total Station survey on a regular basis.



Fig-01



Fig -02

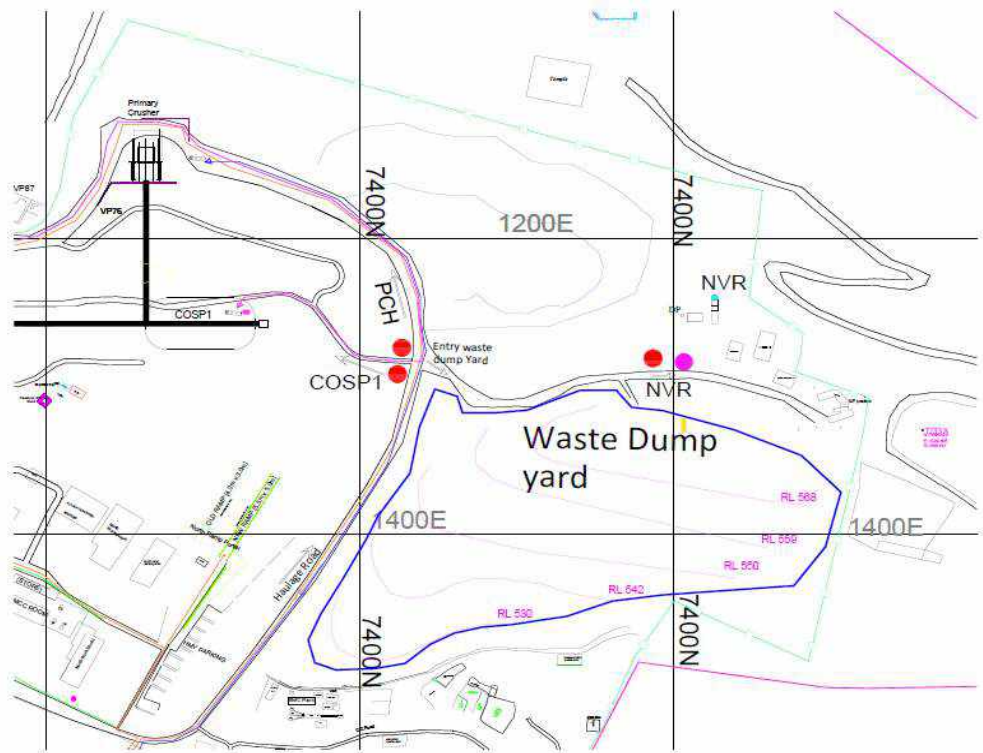


Fig -03

Following are bench details -:

Waste dump bottom level 521.79mRL

Waste dump top level 568.90mRL

- 1) bench height 08.21m (Top RL 530, bottom RL 521.79).
- 2) bench height 12m (Top RL 530 bottom RL 542)
- 3) bench height 08m (Top RL 550.0 bottom RL 542.00)
- 4) Bench height 09 m (Top RL 559 Bottom RL 550.00)
- 5) Bench height 9.9 m (Top RL 568.9 Bottom RL 559.0)



Fig -04



Fig -05

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TEST REPORT

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

Report No./ULR No. :	900000122	Date :	03-07-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Aquatic Life and Invertebrates Animals	Date of Sample Collection/Monitoring :	09-06-2023
Point of Collection :	Bamania Kalan (Banas River)	Date of Receipt :	12-06-2023
Date of Test/Analysis :	12-06-2023 to 03-07-2023	Sampling Plan :	Not Available
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Singh Chouhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Lead [ppm]	Less than 0.1	APHA : 2017:3111-B
2	Zinc [ppm]	17.44	APHA : 2017:3111-B
3	Copper [ppm]	2.14	APHA : 2017:3111-B
4	Cadmium [ppm]	Less than 0.1	APHA : 2017:3111-B
5	Nickel [ppm]	Less than 0.1	APHA : 2017:3111-B
6	Iron [ppm]	15.41	APHA : 2017:3111-B
7	Chromium [ppm]	Less than 0.1	APHA : 2017:3111-B
8	Mercury [ppm]	0.01	APHA : 2017:3111-B

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwar
Authorized Signatory
(Report No: 900000122)



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TEST REPORT

Report No./ULR No. :	900000123	Date :	03-07-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Aquatic Life and Invertebrates Animals	Date of Sample Collection/Monitoring :	09-06-2023
Point of Collection :	Raghunath Pura Pond Fish	Date of Receipt :	12-06-2023
Date of Test/Analysis :	12-06-2023 to 03-07-2023	Sampling Plan :	Not Available
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Singh Chouhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Lead [ppm]	Less than 0.1	APHA : 2017:3111-B
2	Zinc [ppm]	18.63	APHA : 2017:3111-B
3	Copper [ppm]	1.33	APHA : 2017:3111-B
4	Cadmium [ppm]	Less than 0.1	APHA : 2017:3111-B
5	Nickel [ppm]	0.17	APHA : 2017:3111-B
6	Iron [ppm]	11.20	APHA : 2017:3111-B
7	Chromium [ppm]	Less than 0.1	APHA : 2017:3111-B
8	Mercury [ppm]	0.04	APHA : 2017:3111-B

Notes :-

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Puran
Puran Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: 900000123)



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TEST REPORT

Report No./ULR No. :	900000124	Date :	03-07-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Aquatic Life and Invertebrates Animals	Date of Sample Collection/Monitoring :	09-06-2023
Point of Collection :	Bharai Dam Pond Fish	Date of Receipt :	12-06-2023
Date of Test/Analysis :	12-06-2023 to 03-07-2023	Sampling Plan :	Not Available
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Singh Chouhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Lead [ppm]	0.25	APHA : 2017:3111-B
2	Zinc [ppm]	15.68	APHA : 2017:3111-B
3	Copper [ppm]	1.11	APHA : 2017:3111-B
4	Cadmium [ppm]	0.11	APHA : 2017:3111-B
5	Nickel [ppm]	Less than 0.1	APHA : 2017:3111-B
6	Iron [ppm]	7.48	APHA : 2017:3111-B
7	Chromium [ppm]	Less than 0.1	APHA : 2017:3111-B
8	Mercury [ppm]	0.01	APHA : 2017:3111-B

Notes :-

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Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: 900000124)



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TEST REPORT

Report No./ULR No. :	900000116	Date :	03-07-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Vegetables/Crops	Date of Sample Collection/Monitoring :	09-06-2023
Point of Collection :	SKM	Date of Receipt :	12-06-2023
Date of Test/Analysis :	12-06-2023 to 03-07-2023	Sampling Plan :	Not Available
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Singh Chouhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Lead [ppm]	21.20	APHA : 2017:3111-B
2	Zinc [ppm]	68.21	APHA : 2017:3111-B
3	Copper [ppm]	3.92	APHA : 2017:3111-B
4	Cadmium [ppm]	Less than 0.1	APHA : 2017:3111-B
5	Nickel [ppm]	Less than 0.1	APHA : 2017:3111-B
6	Iron [ppm]	88.25	APHA : 2017:3111-B
7	Chromium [ppm]	Less than 0.1	APHA : 2017:3111-B
8	Mercury [ppm]	Less than 0.1	APHA : 2017:3111-B

Notes :-

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Puram
Puram Yogi

Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: 900000116)



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TEST REPORT

Report No./ULR No. :	900000117	Date :	03-07-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Vegetables/Crops	Date of Sample Collection/Monitoring :	09-06-2023
Point of Collection :	Bamania kalan (Cotton Leaf)	Date of Receipt :	12-06-2023
Date of Test/Analysis :	12-06-2023 to 03-07-2027	Sampling Plan :	Not Available
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Singh Chouhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Lead [ppm]	85.24	APHA : 2017:3111-B
2	Zinc [ppm]	117.41	APHA : 2017:3111-B
3	Copper [ppm]	10.52	APHA : 2017:3111-B
4	Cadmium [ppm]	Less than 0.1	APHA : 2017:3111-B
5	Nickel [ppm]	Less than 0.1	APHA : 2017:3111-B
6	Iron [ppm]	57.41	APHA : 2017:3111-B
7	Chromium [ppm]	Less than 0.1	APHA : 2017:3111-B
8	Mercury [ppm]	Less than 0.1	APHA : 2017:3111-B

Notes :-

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Puran Mat Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 900000117)



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Email : marketinglab@teamtesthouse.com

TEST REPORT


Report No./ULR No. :	900000118	Date :	03-07-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Vegetables/Crops	Date of Sample Collection/Monitoring :	09-06-2023
Point of Collection :	Raghunath pura (Pearl Millet Leaf)	Date of Receipt :	12-06-2023
Date of Test/Analysis :	12-06-2023 to 03-07-2023	Sampling Plan :	Not Available
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Singh Chouhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Lead [ppm]	22.10	APHA : 2017:3111-B
2	Zinc [ppm]	71.01	APHA : 2017:3111-B
3	Copper [ppm]	2.33	APHA : 2017:3111-B
4	Cadmium [ppm]	Less than 0.1	APHA : 2017:3111-B
5	Nickel [ppm]	Less than 0.1	APHA : 2017:3111-B
6	Iron [ppm]	24.15	APHA : 2017:3111-B
7	Chromium [ppm]	Less than 0.1	APHA : 2017:3111-B
8	Mercury [ppm]	Less than 0.1	APHA : 2017:3111-B

Notes :-

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Senior Analyst


Rajesh Maheshwar
Authorized Signatory
(Report No: 900000118)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	900000119	Date :	03-07-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Vegetables/Crops	Date of Sample Collection/Monitoring :	09-06-2023
Point of Collection :	Kantiya Khera (Maize leaf)	Date of Receipt :	12-06-2023
Date of Test/Analysis :	12-06-2023 to 03-07-2023	Sampling Plan :	Not Available
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Singh Chouhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Lead [ppm]	9.88	APHA : 2017:3111-B
2	Zinc [ppm]	55.10	APHA : 2017:3111-B
3	Copper [ppm]	Less than 0.1	APHA : 2017:3111-B
4	Cadmium [ppm]	Less than 0.1	APHA : 2017:3111-B
5	Nickel [ppm]	Less than 0.1	APHA : 2017:3111-B
6	Iron [ppm]	87.14	APHA : 2017:3111-B
7	Chromium [ppm]	Less than 0.1	APHA : 2017:3111-B
8	Mercury [ppm]	Less than 0.1	APHA : 2017:3111-B

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 900000119)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	900000120	Date :	03-07-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Vegetables/Crops	Date of Sample Collection/Monitoring :	09-06-2023
Point of Collection :	Rajpura village (Cotton leaf)	Date of Receipt :	12-06-2023
Date of Test/Analysis :	12-06-2023 to 03-07-2023	Sampling Plan :	Not Available
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Singh Chouhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Lead [ppm]	62.58	APHA : 2017:3111-B
2	Zinc [ppm]	147.25	APHA : 2017:3111-B
3	Copper [ppm]	26.35	APHA : 2017:3111-B
4	Cadmium [ppm]	Less than 0.1	APHA : 2017:3111-B
5	Nickel [ppm]	2.55	APHA : 2017:3111-B
6	Iron [ppm]	63.20	APHA : 2017:3111-B
7	Chromium [ppm]	Less than 0.1	APHA : 2017:3111-B
8	Mercury [ppm]	Less than 0.1	APHA : 2017:3111-B

Notes :-

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Purna Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 900000120)



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TEST REPORT

Laboratory : G1-584, RIICO Industrial Area,
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Report No./ULR No. :	900000121	Date :	03-07-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Vegetables/Crops	Date of Sample Collection/Monitoring :	09-06-2023
Point of Collection :	Sindesar Khurd (Maize leaf)	Date of Receipt :	12-06-2023
Date of Test/Analysis :	12-06-2023 to 03-07-2023	Sampling Plan :	Not Available
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Singh Chouhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Lead [ppm]	34.21	APHA : 2017:3111-B
2	Zinc [ppm]	168.39	APHA : 2017:3111-B
3	Copper [ppm]	21.32	APHA : 2017:3111-B
4	Cadmium [ppm]	Less than 0.1	APHA : 2017:3111-B
5	Nickel [ppm]	Less than 0.1	APHA : 2017:3111-B
6	Iron [ppm]	201.78	APHA : 2017:3111-B
7	Chromium [ppm]	Less than 0.1	APHA : 2017:3111-B
8	Mercury [ppm]	Less than 0.1	APHA : 2017:3111-B

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Purnan Mal Yogi
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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TH/SKM/SA/2023/01	Date :	04-10-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Aquatic Life and invertebrates Animals	Date of Sample Collection/Monitoring :	17-09-2023
Point of Collection :	Bamania Kalan (Banas River)	Date of Receipt :	25-09-2023
Date of Test/Analysis :	25-09-2023 to 04-10-2023	Sampling Plan :	Not Available
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Sunil Singh Chouhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Lead [ppm]	0.36	APHA : 2017 : 3111 - B
2	Zinc [ppm]	45.25	APHA : 2017 : 3111 - B
3	Copper [ppm]	4.13	APHA : 2017 : 3111 - B
4	Cadmium [ppm]	0.12	APHA : 2017 : 3111 - B
5	Nickel [ppm]	0.76	APHA : 2017 : 3111 - B
6	Iron [ppm]	89.23	APHA : 2017 : 3111 - B
7	Chromium [ppm]	Less than 0.1	APHA : 2017 : 3111 - B
8	Mercury [ppm]	0.03	APHA : 2017 : 3111 - B

Notes :-

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Puran Mal Yogi
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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TH/SKM/SA/2023/02	Date :	04-10-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Aquatic Life and invertebrates Animals	Date of Sample Collection/Monitoring :	17-09-2023
Point of Collection :	Raghunath Pura Pond Fish	Date of Receipt :	25-09-2023
Date of Test/Analysis :	25-09-2023 to 04-10-2023	Sampling Plan :	Not Available
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Sunil Singh Chouhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Lead [ppm]	0.26	APHA : 2017 : 3111 - B
2	Zinc [ppm]	28.67	APHA : 2017 : 3111 - B
3	Copper [ppm]	5.10	APHA : 2017 : 3111 - B
4	Cadmium [ppm]	0.13	APHA : 2017 : 3111 - B
5	Nickel [ppm]	0.55	APHA : 2017 : 3111 - B
6	Iron [ppm]	36.11	APHA : 2017 : 3111 - B
7	Chromium [ppm]	Less than 0.1	APHA : 2017 : 3111 - B
8	Mercury [ppm]	0.05	APHA : 2017 : 3111 - B

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TEST REPORT

Report No./ULR No. :	TH/SKM/SA/2023/03	Date :	04-10-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Aquatic Life and invertebrates Animals	Date of Sample Collection/Monitoring :	17-09-2023
Point of Collection :	Bharai Dam Pond Fish	Date of Receipt :	25-09-2023
Date of Test/Analysis :	25-09-2023 to 04-10-2023	Sampling Plan :	Not Available
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Sunil Singh Chouhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Lead [ppm]	0.21	APHA : 2017 : 3111 - B
2	Zinc [ppm]	27.14	APHA : 2017 : 3111 - B
3	Copper [ppm]	3.91	APHA : 2017 : 3111 - B
4	Cadmium [ppm]	0.11	APHA : 2017 : 3111 - B
5	Nickel [ppm]	0.41	APHA : 2017 : 3111 - B
6	Iron [ppm]	18.62	APHA : 2017 : 3111 - B
7	Chromium [ppm]	Less than 0.1	APHA : 2017 : 3111 - B
8	Mercury [ppm]	0.03	APHA : 2017 : 3111 - B

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TEST REPORT

Report No./ULR No. :	900000186	Date :	04-10-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Vegetables/Crops	Date of Sample Collection/Monitoring :	18-09-2023
Point of Collection :	Sindesar Khurd (Maize leaf)	Date of Receipt :	25-09-2023
Date of Test/Analysis :	25-09-2023 to 04-10-2023	Sampling Plan :	Not Available
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Sunil Singh Chouhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Lead [ppm]	88.54	APHA : 2017:3111-B
2	Zinc [ppm]	365.47	APHA : 2017:3111-B
3	Copper [ppm]	57.29	APHA : 2017:3111-B
4	Cadmium [ppm]	2.40	APHA : 2017:3111-B
5	Nickel [ppm]	6.78	APHA : 2017:3111-B
6	Iron [ppm]	369.55	APHA : 2017:3111-B
7	Chromium [ppm]	Less than 0.1	APHA : 2017:3111-B
8	Mercury [ppm]	Less than 0.1	APHA : 2017:3111-B

Notes :-

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Puran Mal Yoda
Senior Analyst

Rajesh Maheshwari
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(Report No: 900000186)



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TEST REPORT

Report No./ULR No. :	900000185	Date :	04-10-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Vegetables/Crops	Date of Sample Collection/Monitoring :	18-09-2023
Point of Collection :	Rajpura village (Cotton leaf)	Date of Receipt :	25-09-2023
Date of Test/Analysis :	25-09-2023 to 04-10-2023	Sampling Plan :	Not Available
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Sunil Singh Chouhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Lead [ppm]	86.34	APHA : 2017:3111-B
2	Zinc [ppm]	269.50	APHA : 2017:3111-B
3	Copper [ppm]	37.48	APHA : 2017:3111-B
4	Cadmium [ppm]	Less than 0.1	APHA : 2017:3111-B
5	Nickel [ppm]	8.49	APHA : 2017:3111-B
6	Iron [ppm]	154.21	APHA : 2017:3111-B
7	Chromium [ppm]	Less than 0.1	APHA : 2017:3111-B
8	Mercury [ppm]	Less than 0.1	APHA : 2017:3111-B

Notes :-

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Puran Mah Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 900000185)



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TEST REPORT

Report No./ULR No. :	900000184	Date :	04-10-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Vegetables/Crops	Date of Sample Collection/Monitoring :	18-09-2023
Point of Collection :	Kantiya Khera (Maize leaf)	Date of Receipt :	25-09-2023
Date of Test/Analysis :	25-09-2023 to 04-10-2023	Sampling Plan :	Not Available
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Sunil Singh Chouhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Lead [ppm]	38.41	APHA : 2017:3111-B
2	Zinc [ppm]	148.72	APHA : 2017:3111-B
3	Copper [ppm]	Less than 0.1	APHA : 2017:3111-B
4	Cadmium [ppm]	Less than 0.1	APHA : 2017:3111-B
5	Nickel [ppm]	4.58	APHA : 2017:3111-B
6	Iron [ppm]	196.35	APHA : 2017:3111-B
7	Chromium [ppm]	Less than 0.1	APHA : 2017:3111-B
8	Mercury [ppm]	Less than 0.1	APHA : 2017:3111-B

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
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(Report No: 900000184)



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TEST REPORT

Report No./ULR No. :	900000183	Date :	04-10-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Vegetables/Crops	Date of Sample Collection/Monitoring :	17-09-2023
Point of Collection :	Raghunath pura (Pearl Millet Leaf)	Date of Receipt :	25-09-2023
Date of Test/Analysis :	25-09-2023 to 04-10-2023	Sampling Plan :	Not Available
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Sunil Singh Chouhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Lead [ppm]	43.58	APHA : 2017:3111-B
2	Zinc [ppm]	112.01	APHA : 2017:3111-B
3	Copper [ppm]	1.85	APHA : 2017:3111-B
4	Cadmium [ppm]	Less than 0.1	APHA : 2017:3111-B
5	Nickel [ppm]	Less than 0.1	APHA : 2017:3111-B
6	Iron [ppm]	47.84	APHA : 2017:3111-B
7	Chromium [ppm]	Less than 0.1	APHA : 2017:3111-B
8	Mercury [ppm]	Less than 0.1	APHA : 2017:3111-B

Notes :-

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Purni Mal Yogi
Senior Analyst

Rajesh Maheshwari
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(Report No: 900000183)



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TEST REPORT

Report No./ULR No. :	900000182	Date :	04-10-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Vegetables/Crops	Date of Sample Collection/Monitoring :	17-09-2023
Point of Collection :	Bamania kalan (Cotton Leaf)	Date of Receipt :	25-09-2023
Date of Test/Analysis :	25-09-2023 to 04-10-2023	Sampling Plan :	Not Available
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Sunil Singh Chouhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Lead [ppm]	39.77	APHA : 2017:3111-B
2	Zinc [ppm]	243.14	APHA : 2017:3111-B
3	Copper [ppm]	25.46	APHA : 2017:3111-B
4	Cadmium [ppm]	5.64	APHA : 2017:3111-B
5	Nickel [ppm]	12.41	APHA : 2017:3111-B
6	Iron [ppm]	99.53	APHA : 2017:3111-B
7	Chromium [ppm]	Less than 0.1	APHA : 2017:3111-B
8	Mercury [ppm]	Less than 0.1	APHA : 2017:3111-B

Notes :-

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Puran Mal Yogi
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Rajesh Maheshwari
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(Report No: 900000182)



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TEST REPORT

Report No./ULR No. :	900000181	Date :	04-10-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Vegetables/Crops	Date of Sample Collection/Monitoring :	17-09-2023
Point of Collection :	SKM	Date of Receipt :	25-09-2023
Date of Test/Analysis :	25-09-2023 to 04-10-2023	Sampling Plan :	Not Available
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Sunil Singh Chouhan	Condition of Sample :	Fitted for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Lead [ppm]	35.48	APHA : 2017:3111-B
2	Zinc [ppm]	82.34	APHA : 2017:3111-B
3	Copper [ppm]	10.52	APHA : 2017:3111-B
4	Cadmium [ppm]	3.25	APHA : 2017:3111-B
5	Nickel [ppm]	10.18	APHA : 2017:3111-B
6	Iron [ppm]	122.47	APHA : 2017:3111-B
7	Chromium [ppm]	Less than 0.1	APHA : 2017:3111-B
8	Mercury [ppm]	Less than 0.1	APHA : 2017:3111-B

Notes :-

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

Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 900000181)



HZL/SKM /ENV/ 2020/02/396



Date: 19.02.2019

To,
 Director,
 IA – Division (Non-Coal Mining)
 A-106, Agni Block, 1st Floor,
 Indira Paryavaran Bhavan
 Ministry of Environment & Forests & Climate Change,
 Jorbagh Road, New Delhi – 110003.

Sub.: Exemption of EC condition **"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."**

Ref : 1. Environment Clearance (letter No. J-11015/7/2017-IA.II (M) dated 31st May 2018) of Sindesar Khurd Mine From Ministry of Environment ,Forest & Climate Change.
 2.MOEF&CC Letter No.F.No. 22-34/2018-IA.III, dated 08.01.2019 - Standardization of Environment Clearance conditions for Non-Coal mining sector — reg.

Sir,

With reference to aforesaid subject, we would like to bring to your kind notice that Ministry of Environment, Forest & Climate Change(MoEF&CC) has accorded the Environment Clearance for our project proposal of "Expansion of Sindesar Khurd Lead –Zinc underground mine from 4.5 million TPA to 6.0 million TPA ore production (ROM) basis and beneficiation from 5.0 million TPA to 6.5 TPA, located at Sindesar Khurd village Tehsil: Relmagra, District, Rajsamand, Rajasthan (ML No.07/95), vide letter No. J-11015/7/2017-IA.II (M) dated 31st May 2018 with **specific condition no.13 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.**

We would like to submit that we are monitoring vehicular emission on regular basis for the parameters mentioned in the BS IV norms and Pollution Under Control (PUC) certificates for all the vehicles from authorized centres is obtained. However, we are not able to monitor PM2.5 in vehicular emission due to unavailability of established technology/instrument.

We would like to draw your attention on following standard Environment Clearance condition for Non-Coal mining sector circulated by your good office vide above mentioned letter:

"i. No Transportation of the minerals shall be allowed in case of roads passing through villages/ habitations. In such cases, PP shall construct a 'bypass' road for the purpose

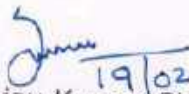
of transportation of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of sound and dust along with chances of accidents could be mitigated. All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation with nodal State Govt. Department. Transportation of minerals through road movement in case of existing village/ rural roads shall be allowed in consultation with nodal State Govt. Department only after required strengthening such that the carrying capacity of roads is increased to handle the traffic load. The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. **Vehicular emissions shall be kept under control and regularly monitored. Project should obtain Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centres."**

All the measures stated in above conditions are being met and complied by us. We are regularly monitoring the vehicular emissions as per BS IV norms. Copy of the PUC enclosed for your ready reference.

Since, we are complying with the standard conditions stated above and due to technical infeasibility of conducting PM2.5 in vehicular emission, we are requesting you to exempt us from the compliance of this condition.

Thanking you.

Yours faithfully,


19/02/2020
Sanjay Kumar Sharma

Unit Head - Sindesar Khurd Mine

CC to:

Director,
Ministry of Environment & Forests & Climate Change,
Regional Office (Central Region),
Kendriya Bhawan, 5th Floor,
Sector "H", Aliganj,
Lucknow - 2266024

Annexure-

BRIEF NOTE ON (SPECIFIC CONDITION-14)

ग्राम सिंदेसर खुर्द को अन्यत्र बसाने के लिए ग्राम सिंदेसर खुर्द से 2 किलोमीटर दूर इसी ग्राम की सीमा में सूरजवारी माताजी के पास 60 बीघा भूमि आवासीय प्रयोजनार्थ संपरिवर्तित करवायी है।

1. संपरिवर्तित जवत भूमि में स्वीकृत प्लान अनुसार पक्की सड़कें बनाकर प्लॉट्स के पिलर लगा कर प्लॉट्स की मार्किंग व नम्बरींग कर दी गयी है।
विधुत आपूर्ति तथा पेयजल हेतु कार्यवाही की जा चुकी है। सामान्य सुविधा के लिए सामुदायिक भवन का निर्माण प्रारम्भ किया जा चुका है।
2. आवासीय भूमि की D.C. दर 300 रुपये प्रति वर्ग फीट है जिसके मुकाबले 1700 रुपये प्रति वर्ग फीट निर्धारित की गयी है तथा आवासीय भूमि के क्षेत्र के बराबर या उससे अधिक 900 वर्ग फीट न्यूनतम तथा इसके गुणांक में रूपांतरित भूमि में निःशुल्क प्लॉट देना तय किया है।
3. विस्थापित किये जाने वाले ग्राम सिंदेसर खुर्द में दिनांक 31.06.2019 के बाद किसी प्रकार का निर्माण कार्य नहीं करने हेतु श्रीमान तहसीलदार रेलमगरा द्वारा राजस्थान पत्रिका राजसमंद के दिनांक 11.06.2019 के अंक में सूचना भी प्रकाशित की गयी है।
4. विस्थापन के इच्छुक परिवारों की सहमति अनुसार 17 पत्रावलीया भूमि (पट्टे) व निर्माण लागत के निर्धारण हेतु तैयार की गई। जिनमें आवासीय भूमि के पट्टों में कमीया पायी गई। उदाहरणतः मौके पर पट्टे की तुलना में लम्बाई चौड़ाई कम या ज्यादा पायी गई। एक ही भूखण्ड का दोहरा पट्टा जारी किया जाना कृषि भूमि में पट्टा जारी किया जाना इत्यादि। इच्छुक परिवारों की पत्रावली में बाद सभी कमी पूर्ति के अंतिम रूप से 7 पत्रावलीया तैयार की गई लेकिन कोविड-19 की वजह से चेक जारी नहीं किये जा सके।

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राज्य प्रजिगत राजस्व मंत्रालय

11.06.2019

सूचना

पृष्ठ - 05

जिला कलक्टर महोदय, राजसमन्द के आदेश क्रमांक 1418-20 दिनांक 04.06.2019 के अनुसार ग्राम सिन्दर खुर्द को अन्ध्र बसाने के संबंध में लिए गये निर्णय अनुसार विस्थापन हेतु तहसीलदार रेलमगर की उपस्थिति में कमेटी का गठन किया गया है। उक्त कमेटी ग्राम सिन्दर खुर्द के अन्ध्र बसाने के मामले में ग्रामवासियों के प्रभावित मकानों, भूखण्डों व कृषि भूमियों के संबंध में स्थानीय व्यक्तियों से सम्पर्क/ सलाह/ समझौदा कर सर्वे कार्य किया जायेगा और इसके साथ ही प्रभावित ग्रामवासियों को अन्ध्र बसाने का कार्य भी गवावे आम किया जायेगा, एवं उनकी व्यक्तिगत एवं सामूहिक समस्याओं पर विचार किया जायेगा और सभी ग्रामवासियों को यह सूचित किया जायेगा कि दिनांक 31.05.2019 के बाद किसी प्रकार का निर्माण कार्य नहीं करें।

तहसीलदार-रेलमगर

दिनांक - 05, dt.d. 11.06.2019

राज्य प्रजिगत राजस्व मंत्रालय

सूचना

जिला कलक्टर महोदय, राजसमन्द के आदेश क्रमांक 1418-20 दिनांक 04.06.2019 के अनुसार ग्राम सिन्दर खुर्द को अन्ध्र बसाने के संबंध में लिए गये निर्णय अनुसार विस्थापन हेतु तहसीलदार रेलमगर की उपस्थिति में कमेटी का गठन किया गया है। उक्त कमेटी ग्राम सिन्दर खुर्द के अन्ध्र बसाने के मामले में ग्रामवासियों के प्रभावित मकानों, भूखण्डों व कृषि भूमियों के संबंध में स्थानीय व्यक्तियों से सम्पर्क/ सलाह/ समझौदा कर सर्वे कार्य किया जायेगा और इसके साथ ही प्रभावित ग्रामवासियों को अन्ध्र बसाने का कार्य भी गवावे आम किया जायेगा, एवं उनकी व्यक्तिगत एवं सामूहिक समस्याओं पर विचार किया जायेगा और सभी ग्रामवासियों को यह सूचित किया जायेगा कि दिनांक 31.05.2019 के बाद किसी प्रकार का निर्माण कार्य नहीं करें।

तहसीलदार-रेलमगर

11.06.2019

ICS NATIONAL INSTITUTE OF AGRICULTURAL MARKETING



HINDUSTAN ZINC
Zinc & Silver of India

Reg. AD

HZL/SKM/ENV/FOREST/2023-24/169

Date 04.09.2023

To,
The Deputy Conservator of Forest (Wildlife),
Sadhana Shikhar Road, Rajsamand,
Dist. Rajsamand, Rajasthan.

Sub: Approval of Wildlife Conservation Plan, Schedule -1 species for Sindesar Khurd Mines of M/s Hindustan Zinc Limited, located at Village Sindesar Khurd, Tehsil Railmagra, Dist. Rajsamand (ML no. 07/95).

Ref: 1). Our Letter Vide no. HZL/SKM/ENV/FOREST/2023-24/129 dated 04.07.2023
2). Your letter Vide no. एफ()/ तकनिकी/उवसं./वजी/2021-22/2697 dated 30.03.2022
2). Our letter Vide no. HZL/SKM/ENV/FOREST/2021-22/62 dated 27.04.2021
3). Environmental Clearance vide letter no. J-11015/7/2017-1A.II(M) dated 31.05.2018

Sir,

With reference to the letter received from your good office dated 30.03.2022, we are hereby submitting the chronology of submission for WLCP approval.

1. We have submitted WLCP of 2.0 Crs against the specific condition no 5 of the environment clearance granted to SK Mines from MoEF&CC vide letter no J-11015/7/2017-1A.II(M) dated 31.05.2018. Accordingly, Rs. 40 lac of administrative fee paid into RPACS account no. 61087162999 through RTGS vide IDBI Bank Ltd. UTR no. 1BKLR92021041300063201 dated 13.04.2021 and same has been communicated to your good office vide letter. HZL/SKM/ENV/FOREST/2021-22/62 dated 27.04.2021.
2. Thereafter, a letter received from good office dated 30.03.2022 & as per revised SOP for WLCP, we have directed to revise the WLCP as per the standard SOP i.e. 10.5 Crs and to submitted the balance administrative fee of Rs. 170.20 Lac. Which we have paid to the A/c No. 61087162999 with IFSC code SBIN0031510 in RPACS on 21.06.2023 with reference ID - HDFCR52023062166056508

We submitted revised WLCP on 04.07.2023 along with 210.2 Lakh submission into RPACS account as per prescribed SOP., therefore it is kindly requested to consider our submission and



accord the approval to implement the WLCP to comply with directions MoEF&CC issued under Environmental Clearance dated 31.05.2018.



(Anshul Kumar Khandelwal)

Unit Head & Authorized Signatory

Sindesar Khurd Mines, HZL

Unit Head
Sindesar Khurd Mine
Hindustan Zinc Limited
P.O. Dariba-313211
Dist. Rajsamand (Raj.)



कार्यालय मुख्य वन संरक्षक, वन्यजीव, उदयपुर

क्रमांक: एफ 1()/एफलीए/मुवस/वजी/2021-22/1225 दिनांक 27/7/21
निमित्त

प्रधान मुख्य वन संरक्षक
एवं मुख्य वन्यजीव प्रतिपालक
राजस्थान जयपुर

विषय:- Wildlife Conservation Plan for Hindustan Zinc Ltd. Sindesar Khurd,
Mines ML no. 07/95 regarding.

संदर्भ:- आपका पत्रांक 2020-21/69 दिनांक 18.02.2021

महोदय,

उपरोक्त विषयान्तर्गत निवेदन है कि उप वन संरक्षक वन्यजीव राजसमन्द द्वारा विषयांकित वाईल्ड लाईफ कन्जर्वेशन प्लान में वांछित आशेषों की पूर्ति की जाकर तदनुसार प्रकरण अग्रेषित करने हेतु इस कार्यालय में भिजवाया है जो मूल ही प्रस्ताव के संलग्न कर अग्रेषित आवश्यक कार्यवाही हेतु प्रेषित है।

संलग्न:- प्रस्ताव की 3 प्रतियाँ।

भवदीय,

(आर.के. खेरता)

मुख्य वन संरक्षक,

वन्यजीव, उदयपुर

n/c
AD

क्रमांक: एफ1()/तक.1/मुवस/वजी/2021-22/1226-27 दिनांक 27/07/21

प्रतिलिपि निम्नलिखित को सूचनार्थ प्रेषित है-

1. उप वन संरक्षक, वन्यजीव, राजसमन्द।
2. यूनिट हेड मैसर्स हिन्दुस्तान जिंक लिमिटेड, सिन्देसर खुर्द, रेलमगरा, राजसमन्द।

मुख्य वन संरक्षक,

वन्यजीव, उदयपुर

n/c

RDC Q1 – Menstrual Hygiene Session

Menstruation hygiene is one of the most important aspects of a woman's health. Under SAKHI awareness camp on Menstrual hygiene management for adolescent girls at Anganwadi Center in Dhaneriya village, Railmagra and Chhadanga khedi, Kotdi and Sindesar Kalan village for the **1st Quarter covering 180 women > 13 awareness sessions.**

The aim of the campaign was to educate women and young girls about the importance of maintaining menstrual hygiene, and to provide them with the necessary resources to do so.

The following topics were discussed during all the training session.

- Symptoms of period
- Usage of Hygienic sanitary napkins during menstruation
- Precautions to be taken during the entire cycle
- Due importance to be given to food, ensuring a balanced diet.
- Social myths and misconceptions attached with this issue
- Societal restriction and lack of menstrual-related information that affect girls' physical and emotional state

The impact of these campaigns will have long-lasting effects on the health and well-being of women in the village, as they continue to maintain proper menstrual hygiene and spread awareness in their community.



RDC Q2: Menstrual Hygiene sessions

For the 2nd quarter a total of 152 women and adolescent girls were benefitted through menstrual hygiene sessions done > total 11 such sessions completed for Q2.

S. No	Village	No of sessions	Beneficiaries covered
1	Chhapri	2	21
2	Khad bamaniya	2	17
3	Champakhedi	3	51
4	Sindesar khurd	1	17
5	Railmagra	3	46

Asha workers and Anganwadi workers also supported in organizing these sessions and took this campaign forward, which is helping in making more adolescent girls aware. These campaigns involved several initiatives, including community meetings, and educational sessions.

The following topics were covered during the training session.

- Symptoms of period
- Usage of Hygienic napkins during menstruation.
- Measures and precautions to be taken during menstruation pain
- Right way of Disposing of sanitary pads
- Importance of a balanced diet always with the right nutrition
- Social myths and misconceptions attached to menstruation



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- Importance of a balanced diet always with the right nutrition
- Social myths and misconceptions attached to menstruation





Safety Status Report (SSR)

(Nucleonic Gauge Facility)

This status report should be submitted by the authorized user of the nucleonic devices through eLORA system in the **first week of January & July** every year, as per the terms and conditions of the authorization issued under the Atomic Energy (Radiation Protection) Rules, 2004.

Name of Institution: Sindesar Khurd Mines

e-LORA Institution Number RJ-35620

SSR Reporting period July 2023

Inventory of the Nucleonic Gauges/Sources

1.	Total number of Nucleonic Gauge (NG) devices/sources in possession of your institution:	32
2.	Total number of NG devices/sources not in use:	0
3.	Total number of NG devices/sources which are disused and to be disposed off :	0
4.	Steps being taken to dispose of disused sources, if any:	NA

Radiation protection, surveillance and physical security (tick the appropriate)

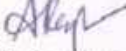
5.	Whether periodic radiation protection survey performed for all NG devices/sources and records are maintained?	Yes / No
6.	Whether Personal monitoring services availed for radiation workers (as applicable)	Yes / No / NA
7.	Whether adequate physical security measures provided for NG devices/sources?	Yes / No
8.	Whether Radiation symbol and warning, in English, Hindi and regional language displayed on source housing and at the fencing/at the access point of NG Devices?	Yes / No
9.	Emergency procedures with contact details of responsible person displayed at appropriate location in the institution?	Yes / No
10.	Whether the representatives of AERB inspected the Nucleonic Device installations?	Yes / No
11.	If yes, dates of inspection	NA
12.	Any other information:	



DETAILS OF NUCLEONIC GAUGES

S.No	Make & Model of nucleonic devices	Number of nucleonic devices	Serial number of nucleonic device	Source & Activity	Location/Plant name	* Stray Radiation Level from External housing of device ($\mu\text{Sv/hr}$ or mR/hr)		Reference No. of NOC issued by AERB/BARC	Present status of the device (In use/ To be installed/ To be disposed off)
						5 cm	100 cm		
1	Berthold LB491	1	463-02-10	Cs137 & 15mCi	U/P HYDROFILL	1.51	0.11	AERB/RSD/NG/NR435/2010/26 41 Dt 22/03/2010	In Use
2	Berthold LB491	1	464-02-10	Cs137 & 15mCi	U/P HYDROFILL	0.68	0.52	AERB/RSD/NG/NR435/2010/26 41 Dt 22/03/2010	In Use
3	Berthold LB491	1	465-02-10	Cs137 & 15mCi	REGIND CYCLONE	1.25	0.34	AERB/RSD/NG/NR435/2010/26 41 Dt 22/03/2010	In Use
4	Berthold LB491	1	466-02-10	Cs137 & 10mCi	PR-SEC CYCLONE STR-1	2.1	0.48	AERB/RSD/NG/NR435/2010/26 41 Dt 22/03/2010	In Use
5	Berthold LB491	1	467-02-10	Cs137 & 10mCi	PR-SEC CYCLONE STR-2	1.52	0.41	AERB/RSD/NG/NR435/2010/26 41 Dt 22/03/2010	In Use
6	Berthold LB491	1	468-02-10	Cs137 & 10mCi	TDPH	0.98	0.21	AERB/RSD/NG/NR435/2010/26 41 Dt 22/03/2010	In Use
7	Berthold LB491	1	469-02-10	Cs137 & 10mCi	TDPH	1.25	0.41	AERB/RSD/NG/NR435/2010/26 41 Dt 22/03/2010	In Use
8	Berthold LB491	1	470-02-10	Cs137 & 10mCi	TDPH	1.02	0.25	AERB/RSD/NG/NR435/2010/26 41 Dt 22/03/2010	In Use
9	Berthold LB491	1	471-02-10	Cs137 & 10mCi	TAILING THICKENER	1.65	0.46	AERB/RSD/NG/NR435/2010/26 41 Dt 22/03/2010	In Use
10	Berthold LB491	1	472-02-10	Cs137 & 6mCi	Zn Thickener	1.75	0.4	AERB/RSD/NG/NR435/2010/26 41 Dt 22/03/2010	In Use
11	Berthold LB491	1	473-02-10	Cs137 & 20mCi	Pb THICKENER	2.15	0.35	AERB/RSD/NG/NR435/2010/26 41 Dt 22/03/2010	In Use
12	Berthold LB491	1	1017-06-10	Cs137 & 10mCi	STORAGE ROOM	1.72	0.47	AERB/RSD/NG/NR435/2011/2067 Dt 15/02/2011	In Use
13	EG&G FQ631	1	T8616	Cs137 & 200mCi	LOW	2.11	0.51	AERB/RSD/NG/NR435/2010/99 83 Dt 14/10/2010	In Use
14	EG&G FQ631	1	T8617	Cs137 & 200mCi	HIGH	2.1	0.7	AERB/RSD/NG/NR435/2010/99 83 Dt 14/10/2010	In Use
15	Berthold LB491	1	1372-08-12	Cs137 & 20mCi	CYCLONE FEED HYDROFILL	1.45	0.43	AERB/RSD/NG/NR435/2012/10 504 Dt 23/08/2012	In Use
16	Berthold LB491	1	1373-08-12	Cs137 & 20mCi	CYCLONE FEED HYDROFILL	1.61	0.32	AERB/RSD/NG/NR435/2012/10 504 Dt 23/08/2012	In Use
17	Berthold LB491	1	1374-08-12	Cs137 & 10mCi	HYDROFILL	2.52	0.63	AERB/RSD/NG/NR435/2012/10 504 Dt 23/08/2012	In Use
18	Berthold LB491	1	1375-08-12	Cs137 & 10mCi	HYDROFILL	1.66	0.45	AERB/RSD/NG/NR435/2012/10 504 Dt 23/08/2012	In Use
19	Berthold LB491	1	1514-08-13	Cs137 & 50mCi	PASTE FILL- TAILING THICKNER	2.15	0.61	AERB/RSD/NG/NR435/2013/11 772 Dt 02/09/2013	In Use
20	Berthold LB491	1	1515-08-13	Cs137 & 50mCi	PASTE FILL- TAILING THICKNER	1.54	0.26	AERB/RSD/NG/NR435/2013/11 772 Dt 02/09/2013	In Use
21	Berthold LB491	1	1516-08-13	Cs137 & 20mCi	PASTE FILL	1.16	0.29	AERB/RSD/NG/NR435/2013/11 772 Dt 02/09/2013	In Use
22	Berthold LB491	1	1599-09-13	Cs137 & 20mCi	PASTE FILL	1.21	0.38	AERB/RSD/NG/NR435/2013/12 841 Dt 24/09/2013	In Use
23	FQ660	1	LB000D01145	Cs137 & 5mCi	GRINDING CYCLONE FEED	1.34	0.34	16-NGPROC-128695	In Use
24	FQ660	1	LB000C01145	Cs137 & 1mCi	ZINC THICKENER ST-2	1.54	0.7	16-NGPROC-128694	In Use
25	FQ660	1	LB000901145	Cs137 & 3mCi	TAILING THICKENER ST-2	2.15	0.74	16-NGPROC-128693	In Use
26	FQ661	1	LB004B0113F	Cs137 & 30mCi	LEAD THICKENER ST-2	2.4	0.33	16-NGPROC-128687	In Use
27	FQ661	1	LB004A0113F	Cs137 & 10mCi	TAILING BATTERY 1	2.65	0.33	16-NGPROC-128693	In Use
28	FQ660	1	LB000D01145	Cs137 & 2mCi	TAILING BATTERY 2	1.98	0.45	16-NGPROC-128692	In Use
29	FQ660	1	LB000D01145	Cs137 & 2mCi	TAILING BATTERY 3	2.34	0.75	16-NGPROC-128691	In Use
30	FQ660	1	LB000B01145	Cs137 & 2mCi	PASTE FILL Battery-A	2.27	0.53	16-NGPROC-128690	In Use
31	FQ660	1	LB000A01145	Cs137 & 3mCi	PASTE FILL Battery-B	2.03	0.41	16-NGPROC-128688	In Use
32	FQ660	1	LB000B01145	Cs137 & 3mCi	GRINDING CYCLONE FEED	2.43	0.76	16-NGPROC-128689	In Use

I hereby certify that the above particulars are true to the best of my knowledge and belief and are in complete conformity with the applicable terms and conditions of authorization and that the sources in our possession have been physically verified by me and found satisfactory from radiation safety point of view.

Radiation Safety Officer

Signature: 
Name: A. Rajasekar
Date: 21/07/2023


Employer/Licensee Unit Head
Signature: 
Name: Anshul Khandelwal
Date: 21/07/2023
Sindesar Khurd Mine
Hindustan Zinc Limited
P.O. Dargha-813211
Dist. Rajasamand (Raj.)

(Seal of the Institution)

MINING ACTIVITY: RENEWAL

CENTRAL GROUND WATER AUTHORITY

(Constituted under section 3 (3) of the Environment (Protection) Act, 1986)

APPLICATION FOR RENEWAL OF NOC TO DEWATER GROUNDWATER FOR MINING INDUSTRY

I. General Information:

(i) Name of the Mine/project: Sindesar Khurd Mine, M/s. Hindustan Zinc Limited.

(ii) Location details: (attach site plan, approved mining plan, topo sketch of the surroundings 5-10 km radius)- Attached in Annexure -1

Village/town: Sindesar Khurd

Block/Mandal: Railmagra

Tehsil/Taluka: Railmagra

District: Rajsamand

State: Rajasthan

(iii) Communication address:

i. Complete Postal Address: M/s. Hindustan Zinc Limited Pvt. Ltd.,
Village: Sindesar Khurd, Tehsil: Railmagra
District: Rajsamand, Rajasthan-313211

ii. Phone / Mobile No.: +91- 9414786371

III. E-mail address: Anshul.Khandelwal@vedanta.co.in

iv. Fax No: N.A.

(iv) Date of issuance of NOC (enclose copy): NOC (110.15 & 121 M3/Day) attached as Annexure - 2.

(v) Change in Land use pattern after execution of the project and surroundings (10 km radius -outside)

No significant change in land use except for the slight increase in the size of dump.

(v) Land use details in the project area

S.No.	Category Level I	Level II	Area in ha.	% of the total area
1.	Agriculture land	Rabi	10.38	5.19
2.	Fallow Land	Kharif	20.95	10.48
3.	Built up land	Plant buildings/sheds, road, belts/houses	44.3	22.17
4.	Waste dump	Dumps	7.88	3.94
5.	Dump	Ore dump	1.36	0.68
6.	Waste land	Barren land	42.04	21.04
7.	Land with shrubs	Barren low-lying stony waste	31.7	16.33
8.	Water bodies	Streams, water reservoir	2.25	1.13

9.	Dense Vegetation	Babul vegetation	12.18	5.62
10.	Plantation	Plantation done by HZL	26.8	13.41
			199.84 ha.	100 %

(Land use details should include all the utilization components of the land)

- (vii) Whether there is a change in topography of the area after the execution of the project:

(a) Regional: Except for the dumps, no significant change in the topography.

(b) Project area: There are no changes in the topography.

- (viii) Whether there is a change in drainage pattern of the area after the execution of the project:

(a) Regional:

Being underground mining project There are no changes in the drainage pattern.

(b) Project area:

Being an underground mining project there are no changes in the drainage pattern.

- (ix) Present Townships/villages within 10 km radius of the project:

There are 55 villages falling in the buffer zone. There is one town as Railmagra fall in buffer zone. There are six villages' falls in 2 km. radius of the lease.

- (x) Details of intersection of groundwater level. (Give detailed report)- CHR submitted along with application.

- (xi) Quantum of groundwater being pumped out from mine,

M ³ /day	231.15
M ³ /year	84369.75

- (xii) Details of utilization of pumped water (please attach details)(m³/year)

(a) Water supply: Nil

(b) Agriculture Nil

(c) Green belt development Nil

(d) Suppression of dust Nil

(e) Recharge Nil

(f) Any other item

84369.75 m³/year (Water requirement of mine of 231.15 m³/day will be obtained from Mine sumps. After de siltation, Mine discharge will be pumped in the mine for drilling and wetting purposes. Surplus mine discharge will be used for beneficiation plant).

- (xiii) Whether it is proposed to pump/ pumping groundwater outside the mine pit for domestic or other uses (if so; give details)

Details of existing groundwater abstraction structures- Not Applicable

Particulars	Existing structure
Number of structure	NA
Type of structure (dug well, tube well, bore well, dug cum bore well)	NA
Year of construction	NA
Depth (meter)	NA
Diameter (mm)	NA
Depth to water level (meters below ground level)	NA
Discharge (m ³ /hour)	NA
Operational hours/day	NA
Operational days/year	NA
Mode of lift and Horse Power of pump	NA
Whether fitted with water meter or not	NA
Whether permission/ registered with CGWA, if so details thereof	NA

(xiv) Monitoring of groundwater regime (attach map and details) -

(a) Location details of the wells/Piezometers (latitude, longitude, Reduced Level)

Details of latitude & longitude attached as **Annexure – 3**

(b) Number of wells/Piezometers monitored at present: 5 Nos.

(c) Attach details of groundwater level of observation wells/Piezometers (at least for 1 year)-

Details of groundwater level of observation wells/Piezometers attached as **Annexure-3**

(d) General quality of groundwater in the area & surroundings (attach reports)

Groundwater quality reports attached as **Annexure – 4.**

(e) Any other item None

(xv) Give the details of change in groundwater regime and quality after execution of the project (attach detailed report with map showing GW flow direction)

Hydrogeological Report submitted along with application.

(xvi) Compliance to the conditions prescribed in the NOC
Compliance report submitted as **Annexure – 5.**

Undertaking

It is to certify that the details and information furnished above are true to the best of my knowledge and belief and I am aware that if any part of the data/information submitted is found to be false or misleading at any stage the application will be rejected out rightly.

Date 19.08.2023

Place Sindesar Khurd Mine


Name & Signature of the applicant*
(With official seal)
Anil
Sindesar Khurd Mine
Hindustan Zinc Limited
P.O. Dariba-313211
Dist. Rajsamand (Raj.)

*In case signed by any authorized signatory, the details of the signatory with the authorization shall be enclosed.

- *Application Performa is subject to modification from time to time.*
- *Renewal of NOC shall be done for the same quantity/structure. If additional quantity is to be pumped out fresh application for NOC needs to be submitted.*
- *Incomplete/ partially filled applications would be rejected summarily.*
- *Project proponent has to submit the application on line on website <http://cgwa-noc.gov.in> and hard copy of the duly signed application along with all requisite documents to the concerned Regional Director, CGWB within seven (7) day of submission of online application.*



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

(भूजल निकासी हेतु अनापत्ति प्रमाण पत्र)

NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION

Project Name:	M/s Hindustan Zinc Limited		
Project Address:	M/s Hindustan Zinc Limited		
Village:	Sindesar Khurd	Block:	Railmagra
District:	Rajsamand	State:	Rajasthan
Pin Code:			
Communication Address:	Sindesar Khurd Mine, Hindustan Zinc Limited, Po Dariba,, Tehsil Railmagra,, Railmagra, Rajsamand, Rajasthan - 313211		
Address of CGWB Regional Office :	Central Ground Water Board Western Region, 6-a, Jhalana Doongri, Jaipur, Rajasthan - 302004		

1. NOC No.:		CGWA/NOC/MIN/REN/1/2021/6437													
2. Application No.:		21-4/308/RJ/MIN/2008					3. Category: (GWRE 2020)		Over Exploited						
4. Project Status:		Existing Ground Water					5. NOC Type:		Renewal						
6. Valid from:		24/09/2020					7. Valid up to:		23/09/2022						
8. Ground Water Abstraction Permitted:															
Fresh Water				Saline Water				Dewatering				Total			
m³/day		m³/year		m³/day		m³/year		m³/day		m³/year		m³/day		m³/year	
0.00		0.00						121.00		44164.00					
9. Details of ground water abstraction /Dewatering structures															
Total Existing No.:0								Total Proposed No.:0							
				DW	DCB	BW	TW	MP	MPu	DW	DCB	BW	TW	MP	MPu
Dewatering Structure*				0	0	0	0	0	3	0	0	0	0	0	0
*DW- Dug Well; DCB-Dug-cum-Bore Well; BW-Bore Well; TW-Tube Well; MP-Mine Pit;MPu-Mine Pumps															
10. Ground Water Abstraction/Restoration Charges paid (Rs.):									88328.00						
11. Number of Piezometers(Observation wells) to be constructed/ monitored & Monitoring mechanism.							No. of Piezometers		Monitoring Mechanism						
									Manual	DWLR**	DWLR With Telemetry				
**DWLR - Digital Water Level Recorder							1		0	1	0				

(Compliance Conditions given overleaf)

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

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011

Phone: (011) 23383561 Fax: 23382051, 23386743

Website: cgwa-noc.gov.in

पानी बचाये - जीवन बचाये
SAVE WATER - SAVE LIFE

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

Mandatory conditions:

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

General conditions:

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

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

Government of India
Ministry of Jal Shakti
Department of Water Resources, River Development and Ganga Rejuvenation
Central Ground Water Authority (CGWA)
Application for Issue of NOC to Abstract Ground Water (NOCAP)

Application for Renewal of NOC to Dewater Ground Water for Mining Industry
(Application for Renewal of NOC)

Application Number : 21-4/308/RJ/MIN/2008
 Old Application Number : 21-4(308)/WR/CGWA/2008-211
 Applied For Renewal : 2nd

1.	General Information:	
	Water Quality:	Fresh Water
	Purpose of Renewal Application:	Existing Ground Water
	Application Type Category/ Type of Application	Base Metal Ores
2.	Name of Mine/Project:	M/S HINDUSTAN ZINC LIMITED
3.	Location Details of the Mining Unit- (Attach Site, Approved Mining Plan, Toposketch of Surrounding 10km Radius Outside) (\$) :	
	Address Line 1 :	M/S HINDUSTAN ZINC LIMITED
	Address Line 2 :	
	Address Line 3 :	
	State:	RAJASTHAN
	District:	RAJSAMAND
	Sub-District:	RAILMAGRA
	Village/Town:	Sindesar Khurd
	Latitude:	
	Longitude:	
	Area Type :	Non-Notified
	Area Type Category :	Over Exploited
	Whether industry is MSME:	No
4.	Communication Address	
	Address Line 1:	SINDESAR KHURD MINE, HINDUSTAN ZINC LIMITED
	Address Line 2:	PO DARIBA
	Address Line 3:	TEHSIL RAILMAGRA
	State:	RAJASTHAN
	District:	RAJSAMAND
	Sub-District:	RAILMAGRA
	Pincode:	313211
	Phone Number with Area Code:	
	Mobile Number:	91 9829499165
	Fax Number:	
5.	Details of Existing NOC issued by CGWA (enclose copy)	
	E-Mail:	anshul.khandelwal@vedanta.co.in
	NOC Letter No:	CGWA/NOC/MIN/REN/1/2021/6437
	Date of Issuance:	12/11/2021
	Validity (Start):	24/09/2020
	Validity (End):	23/09/2022

Government of India
Ministry of Jal Shakti
Department of Water Resources, River Development and Ganga Rejuvenation
Central Ground Water Authority (CGWA)
Application for Issue of NOC to Abstract Ground Water (NOCAP)

Application for Renewal of NOC to Dewater Ground Water for Mining Industry
(Application for Renewal of NOC)

Application Number : 21-4/308/RJ/MIN/2008
Old Application Number : 21-4(308)/WR/CGWA/2008-211
Applied For Renewal : 2nd

	Reason for not applying for renewal before expiry of NOC Validity (Attach Affidavit):		Were facing error in application software it was not visible Applying in permitted timeline.	
6.	Change in Land Use Pattern after execution of Project and Surroundings (10 km Radius - Outside)			
	Agricultural-6872.8 ha., Vegetation-3817.5 ha., Sparse Scrub-7338.77 ha., Fallow land-10795.03 ha., Dense Scrub-4877.4 ha., Wasteland-1218.2 ha., Built up-1086.3 ha., Barren-330.8 ha. Water Bodies-1034.5 ha. Total 37371.3 ha.			
7.	Land Use Detail of Project Area			
	Land Use Details	Existing (sq meter)	Proposed (sq meter)	Grand Total (sq meter)
	Green Belt Area	1020100.00	0.00	1020100.00
	Open Land	512800.00	0.00	512800.00
	Road/ Paved Area	23000.00	0.00	23000.00
	Rooftop area of building/ sheds	442500.00	0.00	442500.00
	Total	1998400.00	0.00	1998400.00
8.	Whether there is a change in Topography of the Area after the execution of the Project:		No	
	a)	Regional		
	b)	Project Area		
9.	Whether there is change in Drainage pattern of the area after the execution of the Project:		No	
	a)	Regional		
	b)	Project Area		
10.	Present Townships / Villages within 10 km radius of the Project:-		Sindesar Khurd, Sindesar Kalan, Manakpuriya, Lathiya Kheri, Shivpura and Relmagra	



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

(भूजल निकासी हेतु अनापत्ति प्रमाण पत्र)

NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION

Project Name:	Sindesar Khurd Mine		
Project Address:	Hindustan Zinc Limited, Po Dariba		
Town:	Dariba	Block:	Railmagra
District:	Rajsamand	State:	Rajasthan
Pin Code:			
Communication Address:	Sindesar Khurd Mine, Po Dariba, Rajsamand, Rajsamand, Rajasthan - 313211		
Address of CGWB Regional Office :	Central Ground Water Board Western Region, 6-a, Jhalana Doongri, Jaipur, Rajasthan - 302004		

1.	NOC No.:		CGWA/NOC/MIN/ORIG/2021/13239												
2.	Application No.:		21-4/6603/RJ/MIN/2017					3.	Category: (GWRE 2020)			Over Exploited			
4.	Project Status:		New Project					5.	NOC Type:			New			
6.	Valid from:		04/10/2021					7.	Valid up to:			03/10/2023			
8.	Ground Water Abstraction Permitted:														
Fresh Water			Saline Water				Dewatering				Total				
m³/day		m³/year		m³/day		m³/year		m³/day		m³/year		m³/day		m³/year	
0.00		0.00						110.15		40204.75					
9.	Details of ground water abstraction /Dewatering structures														
Total Existing No.:0							Total Proposed No.:0								
			DW	DCB	BW	TW	MP	MPu	DW	DCB	BW	TW	MP	MPu	
Dewatering Structure*			0	0	0	0	0	3	0	0	0	0	0	1	
*DW- Dug Well; DCB-Dug-cum-Bore Well; BW-Bore Well; TW-Tube Well; MP-Mine Pit;MPu-Mine Pumps															
10.	Ground Water Abstraction/Restoration Charges paid (Rs.):								160819.00						
11.	Number of Piezometers(Observation wells) to be constructed/ monitored & Monitoring mechanism.						No. of Piezometers			Monitoring Mechanism					
									Manual	DWLR**	DWLR With Telemetry				
**DWLR - Digital Water Level Recorder						1			0	1	0				

(Compliance Conditions given overleaf)

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18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011

Phone: (011) 23383561 Fax: 23382051, 23386743

Website: cgwa-noc.gov.in

पानी बचाये - जीवन बचाये
SAVE WATER - SAVE LIFE

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

Mandatory conditions:

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

General conditions:

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

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

Land use mapping by digital processing of Sindesar Khurd mining lease using remote sensing techniques



Sponsor: Hindustan Zinc Limited, Sindesar Khurd Mine

Studied by:



Estb: 1988

Studied for:



Hydro-Geosurvey Consultants Private Limited



CERTIFICATE NO.: NABET/GWCO/IA/GW003

C-103, Shastri Nagar, Jodhpur- 342003

Phone: - 0291-2431754

Web: www.hydrogeosurvey.com, E-mail: - hydro.geosurvey@yahoo.com

June, 2021

**Hindustan Zinc Limited
Sindesar Khurd Mine
Dariiba, Dist. Rajsamand, Rajasthan**



Water sprinkling on haul road



Water sprinkling on haul road in underground



Auto dust suppression system at crusher



Mechanized vacuum road sweeper



Roadside plantation



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TEST REPORT

Report No./ULR No. :	TC502523100001102	Date :	23-06-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Water / Chemical	Date of Sample Collection/Monitoring :	08-06-2023
Point of Collection :	SKM Inside	Date of Receipt :	12-06-2023
Date of Test/Analysis :	12-06-2023 to 23-06-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	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	pH	7.57	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
2	Hardness (total) [mg/l]	134.62	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
3	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
4	Chloride [mg/l]	63.64	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	637	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	11.81	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
7	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
8	Sulphate [mg/l]	32.4	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
9	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019	0.003	-
10	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2019	0.01	-
11	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2019	0.01	-

Rajesh Malhotra



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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
12	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994 RA 2019	5.00	15.00
13	Alkalinity - T [mg/l]	272.6	IS 3025 (Part 23) : 1986 RA 2019	200.00	600.00
14	Suspended Solids [mg/l]	5	IS 3025 (Part 17) : 1984 RA 2017	-	-
15	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2019	0.2(minimum)	1
16	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2019	0.001	No relaxation
17	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
18	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2019	0.02	-
19	Total Solids [mg/l]	642	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.

Balram
Balram Agarwal
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523100001102)



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TEST REPORT

Report No./ULR No. :	100001102	Date :	23-06-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Water / Chemical	Date of Sample Collection/Monitoring :	08-06-2023
Point of Collection :	SKM Inside	Date of Receipt :	12-06-2023
Date of Test/Analysis :	12-06-2023 to 23-06-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	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
20	Cobalt [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	-	-

Notes :-

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Balram Agarwal
Balram Agarwal
Senior Analyst

Rajesh Maheshwari
Rajesh Maheshwari
Authorized Signatory
(Report No: 100001102)



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TEST REPORT

Report No./ULR No. :	TC502523100001103	Date :	23-06-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Water / Chemical	Date of Sample Collection/Monitoring :	08-06-2023
Point of Collection :	Relmagra	Date of Receipt :	12-06-2023
Date of Test/Analysis :	12-06-2023 to 23-06-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	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	pH	7.77	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
2	Hardness (total) [mg/l]	150	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
3	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
4	Chloride [mg/l]	109.92	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	668	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	19.08	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
7	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
8	Sulphate [mg/l]	26.8	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
9	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019	0.003	-
10	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2019	0.01	-
11	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2019	0.01	-

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
12	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994 RA 2019	5.00	15.00
13	Alkalinity - T [mg/l]	253.8	IS 3025 (Part 23) : 1986 RA 2019	200.00	600.00
14	Suspended Solids [mg/l]	7	IS 3025 (Part 17) : 1984 RA 2017	-	-
15	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2019	0.2(minimum)	1
16	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2019	0.001	No relaxation
17	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
18	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2019	0.02	-
19	Total Solids [mg/l]	675	IS 3025 (part 15) : 1984 RA 2019	-	-

Notes :-

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

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523100001103)



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TEST REPORT

Report No./ULR No. :	100001103	Date :	23-06-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Water / Chemical	Date of Sample Collection/Monitoring :	08-06-2023
Point of Collection :	Relmagra	Date of Receipt :	12-06-2023
Date of Test/Analysis :	12-06-2023 to 23-06-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	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
20	Cobalt [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	-	-

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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Balraj Aggarwal
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 100001103)



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TEST REPORT

Report No./ULR No. :	TC502523100001104	Date :	23-06-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Water / Chemical	Date of Sample Collection/Monitoring :	09-06-2023
Point of Collection :	Rajpura Village	Date of Receipt :	12-06-2023
Date of Test/Analysis :	12-06-2023 to 23-06-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	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	pH	7.57	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
2	Hardness (total) [mg/l]	142.31	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
3	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
4	Chloride [mg/l]	90.64	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	1155	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	15.44	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
7	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
8	Sulphate [mg/l]	144	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
9	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019	0.003	-
10	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2019	0.01	-
11	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2019	0.01	-

Rajesh Maheshwari



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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
12	Zinc [mg/l]	0.29	IS 3025 (Part 49) : 1994 RA 2019	5.00	15.00
13	Alkalinity - T [mg/l]	353.44	IS 3025 (Part 23) : 1986 RA 2019	200.00	600.00
14	Suspended Solids [mg/l]	4	IS 3025 (Part 17) : 1984 RA 2017	-	-
15	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2019	0.2(minimum)	1
16	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2019	0.001	No relaxation
17	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
18	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2019	0.02	-
19	Total Solids [mg/l]	1159	IS 3025 (part 15) : 1984 RA 2019	-	-

Notes :-

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

Rajesh
Rajesh Maheshwan
Authorized Signatory
(Report No: TC502523100001104)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	100001104	Date :	23-06-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Water / Chemical	Date of Sample Collection/Monitoring :	09-06-2023
Point of Collection :	Rajpura Village	Date of Receipt :	12-06-2023
Date of Test/Analysis :	12-06-2023 to 23-06-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	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
20	Cobalt [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	-	-

Notes :-

- # Limits mentioned as per IS 10500:2012 is of Drinking water. There is no prescribed limit for Surface/Ground water etc.
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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Balram Agarwal
Balram Agarwal
Senior Analyst

Rajesh Maheshwari
Rajesh Maheshwari
Authorized Signatory
(Report No: 100001104)



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TEST REPORT

Report No./ULR No. :	TC502523100001105	Date :	23-06-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Water / Chemical	Date of Sample Collection/Monitoring :	08-06-2023
Point of Collection :	Raghnathpura Village	Date of Receipt :	12-06-2023
Date of Test/Analysis :	12-06-2023 to 23-06-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	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	pH	7.57	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
2	Hardness (total) [mg/l]	223.08	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
3	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
4	Chloride [mg/l]	71.35	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	837	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	21.8	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
7	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
8	Sulphate [mg/l]	130	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
9	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019	0.003	-
10	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2019	0.01	-
11	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2019	0.01	-

Rajesh Maheshwari



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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
12	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994 RA 2019	5.00	15.00
13	Alkalinity - T [mg/l]	364.72	IS 3025 (Part 23) : 1986 RA 2019	200.00	600.00
14	Suspended Solids [mg/l]	5	IS 3025 (Part 17) : 1984 RA 2017	-	-
15	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2019	0.2(minimum)	1
16	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2019	0.001	No relaxation
17	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
18	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2019	0.02	-
19	Total Solids [mg/l]	842	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.

Balram
Balram Agarwal
Senior Analyst

Rajesh Maheshwari
Rajesh Maheshwari
Authorized Signatory
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TEST REPORT

Report No./ULR No. :	100001105	Date :	23-06-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Water / Chemical	Date of Sample Collection/Monitoring :	08-06-2023
Point of Collection :	Raghunathpura Village	Date of Receipt :	12-06-2023
Date of Test/Analysis :	12-06-2023 to 23-06-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	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
20	Cobalt [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	-	-

Notes :-

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

Rajesh
Rajesh Maheshwari
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TEST REPORT

Report No./ULR No. :	TC502523100001106	Date :	23-06-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Water / Chemical	Date of Sample Collection/Monitoring :	08-06-2023
Point of Collection :	Amarpura Village	Date of Receipt :	12-06-2023
Date of Test/Analysis :	12-06-2023 to 23-06-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	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	pH	7.65	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
2	Hardness (total) [mg/l]	211.54	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
3	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
4	Chloride [mg/l]	111.85	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	1004	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	28.16	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
7	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
8	Sulphate [mg/l]	25.6	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
9	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019	0.003	-
10	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2019	0.01	-
11	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2019	0.01	-

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
12	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994 RA 2019	5.00	15.00
13	Alkalinity - T [mg/l]	620.4	IS 3025 (Part 23) : 1986 RA 2019	200.00	600.00
14	Suspended Solids [mg/l]	5	IS 3025 (Part 17) : 1984 RA 2017	-	-
15	Free Residual Chlorine [mg/l]	BDL (<0.1)	IS 3025 (Part 26) : 1986 RA 2019	0.2(minimum)	1
16	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2019	0.001	No relaxation
17	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
18	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2019	0.02	-
19	Total Solids [mg/l]	1009	IS 3025 (part 15) : 1984 RA 2019	-	-

Notes :-

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

Rajesh
Rajesh Maneshwar
Authorized Signatory
(Report No: TC502523100001106)



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TEST REPORT

Report No./ULR No. :	100001106	Date :	23-06-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Water / Chemical	Date of Sample Collection/Monitoring :	08-06-2023
Point of Collection :	Amarpura Village	Date of Receipt :	12-06-2023
Date of Test/Analysis :	12-06-2023 to 23-06-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	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
20	Cobalt [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	-	-

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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Balraj Agarwal
Balraj Agarwal
Senior Analyst

Rajesh Maheshwari
Rajesh Maheshwari
Authorized Signatory
(Report No: 100001106)



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TEST REPORT

Report No./ULR No. :	TC502523100001107	Date :	23-06-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Water / Chemical	Date of Sample Collection/Monitoring :	08-06-2023
Point of Collection :	Barniya Kalan	Date of Receipt :	12-06-2023
Date of Test/Analysis :	12-06-2023 to 23-06-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	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	pH	7.42	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
2	Hardness (total) [mg/l]	109.62	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
3	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
4	Chloride [mg/l]	161.99	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	1060	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	16.8	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
7	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
8	Sulphate [mg/l]	72.8	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
9	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019	0.003	-
10	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2019	0.01	-
11	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2019	0.01	-

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
12	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994 RA 2019	5.00	15.00
13	Alkalinity - T [mg/l]	274.48	IS 3025 (Part 23) : 1986 RA 2019	200.00	600.00
14	Suspended Solids [mg/l]	8	IS 3025 (Part 17) : 1984 RA 2017	-	-
15	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2019	0.2(minimum)	1
16	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2019	0.001	No relaxation
17	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
18	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2019	0.02	-
19	Total Solids [mg/l]	1068	IS 3025 (part 15) : 1984 RA 2019	-	-

Notes :-

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

Rajesh
Rajesh Maheshwari
Authorized Signatory

(Report No: TC502523100001107)



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TEST REPORT

Report No./ULR No. :	100001107	Date :	23-06-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Water / Chemical	Date of Sample Collection/Monitoring :	08-06-2023
Point of Collection :	Bamniya Kalan	Date of Receipt :	12-06-2023
Date of Test/Analysis :	12-06-2023 to 23-06-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	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
20	Cobalt [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	-	-

Notes :-

- # Limits mentioned as per IS 10500:2012 is of Drinking water. There is no prescribed limit for Surface/Ground water etc.
- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
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Balram
Balram Agarwal
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Rajesh
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(Report No: 100001107)



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TEST REPORT

Report No./ULR No. :	TC502523100001108	Date :	23-06-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Water / Chemical	Date of Sample Collection/Monitoring :	09-06-2023
Point of Collection :	Sindesar Khurd Village	Date of Receipt :	12-06-2023
Date of Test/Analysis :	12-06-2023 to 23-06-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	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	pH	7.01	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
2	Hardness (total) [mg/l]	432.69	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
3	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
4	Chloride [mg/l]	106.07	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	643	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	22.71	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
7	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
8	Sulphate [mg/l]	62.0	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
9	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019	0.003	-
10	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2019	0.01	-
11	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2019	0.01	-

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 limits in the absence of Alternate Sources as per IS 10500 : 2012
12	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994 RA 2019	5.00	15.00
13	Alkalinity - T [mg/l]	300.8	IS 3025 (Part 23) : 1986 RA 2019	200.00	600.00
14	Suspended Solids [mg/l]	5	IS 3025 (Part 17) : 1984 RA 2017	-	-
15	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2019	0.2(minimum)	1
16	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2019	0.001	No relaxation
17	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
18	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2019	0.02	-
19	Total Solids [mg/l]	648	IS 3025 (part 15) : 1984 RA 2019	-	-

Notes :-

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

Balram
Balram Agarwal
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523100001108)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	100001108	Date :	23-06-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Water / Chemical	Date of Sample Collection/Monitoring :	09-06-2023
Point of Collection :	Sindesar Khurd Village	Date of Receipt :	12-06-2023
Date of Test/Analysis :	12-06-2023 to 23-06-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	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
20	Cobalt [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	-	-

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 Adarwal
Balram Adarwal
Senior Analyst

Rajesh Maneshwan
Rajesh Maneshwan
Authorized Signatory
(Report No: 100001108)



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Email : director@teamtesthouse.com,
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TEST REPORT

Report No./ULR No. :	TC502523100001109	Date :	23-06-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Water / Chemical	Date of Sample Collection/Monitoring :	08-06-2023
Point of Collection :	Sunariya Kheda	Date of Receipt :	12-06-2023
Date of Test/Analysis :	12-06-2023 to 23-06-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	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	pH	7.50	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
2	Hardness (total) [mg/l]	451.92	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
3	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
4	Chloride [mg/l]	294.09	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	1611	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	34.06	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
7	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
8	Sulphate [mg/l]	575	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
9	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019	0.003	-
10	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2019	0.01	-
11	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2019	0.01	-

Rajesh Manishwan



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Email : director@teamtesthouse.com,
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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
12	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994 RA 2019	5.00	15.00
13	Alkalinity - T [mg/l]	310.2	IS 3025 (Part 23) : 1986 RA 2019	200.00	600.00
14	Suspended Solids [mg/l]	8	IS 3025 (Part 17) : 1984 RA 2017	-	-
15	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2019	0.2(minimum)	1
16	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2019	0.001	No relaxation
17	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
18	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2019	0.02	-
19	Total Solids [mg/l]	1619	IS 3025 (part 15) : 1984 RA 2019	-	-

Notes :-

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

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523100001109)



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TEST REPORT

Report No./ULR No. :	100001109	Date :	23-06-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Water / Chemical	Date of Sample Collection/Monitoring :	08-06-2023
Point of Collection :	Sunariya Kheda	Date of Receipt :	12-06-2023
Date of Test/Analysis :	12-06-2023 to 23-06-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	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
20	Cobalt [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	-	-

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 Arwari
Senior Analyst

Rajesh
Rajesh Maheshwan
Authorized Signatory
(Report No: 100001109)



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TEST REPORT

Report No./ULR No.:	23100001635	Date :	04-10-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Water / Chemical	Date of Sample Collection/Monitoring :	16-09-2023
Point of Collection :	SKM Inside	Date of Receipt :	25-09-2023
Date of Test/Analysis :	25-09-2023 to 04-10-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Sunil Chouhan	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	pH	8.02	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
2	Hardness (total) [mg/l]	271.56	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
3	Iron [mg/l]	BDL (<0.01)	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
4	Chloride [mg/l]	79.81	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	865	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	35.67	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
7	Copper [mg/l]	BDL (<0.01)	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
8	Sulphate [mg/l]	48	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
9	Cadmium [mg/l]	BDL (<0.001)	IS 3025 (Part 41) : 1992 RA 2019	0.003	-
10	Arsenic [mg/l]	BDL (<0.001)	IS 3025 (Part 37) : 1988 RA 2019	0.01	-
11	Lead [mg/l]	BDL (<0.01)	IS 3025 (Part 47) : 1994 RA 2019	0.01	-

Sanil

Raj



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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
12	Zinc [mg/l]	BDL (<0.01)	IS 3025 (Part 49) : 1994 RA 2019	5.00	15.00
13	Alkalinity - T [mg/l]	594	IS 3025 (Part 23) : 1986 RA 2019	200.00	600.00
14	Suspended Solids [mg/l]	Less than 1	IS 3025 (Part 17) : 1984 RA 2017	-	-
15	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2019	0.2(minimum)	1
16	Mercury [mg/l]	BDL (<0.001)	IS 3025 (Part 48) : 1994 RA 2019	0.001	No relaxation
17	Cyanide [mg/l]	BDL (<0.01)	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
18	Nickel [mg/l]	BDL (<0.01)	IS 3025 (Part 54) : 2003 RA 2019	0.02	-
19	Total Solids [mg/l]	865	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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Sunil Kumar
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 23100001635)



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TEST REPORT

Report No./ULR No. :	100001635	Date :	04-10-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Water / Chemical	Date of Sample Collection/Monitoring :	16-09-2023
Point of Collection :	SKM Inside	Date of Receipt :	25-09-2023
Date of Test/Analysis :	25-09-2023 to 04-10-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Sunil Chouhan	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
20	Cobalt [mg/l]	BDL (<0.01)	APHA :2017 :3111- B	-	-

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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Sunil Kumar
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 100001635)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	23100001636	Date :	04-10-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Water / Chemical	Date of Sample Collection/Monitoring :	16-09-2023
Point of Collection :	Reimagra	Date of Receipt :	25-09-2023
Date of Test/Analysis :	25-09-2023 to 04-10-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Sunil Chouhan	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	pH	7.93	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
2	Hardness (total) [mg/l]	157.8	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
3	Iron [mg/l]	BDL (<0.01)	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
4	Chloride [mg/l]	136.81	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	963	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	10.7	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
7	Copper [mg/l]	BDL (<0.01)	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
8	Sulphate [mg/l]	53	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
9	Cadmium [mg/l]	BDL (<0.001)	IS 3025 (Part 41) : 1992 RA 2019	0.003	-
10	Arsenic [mg/l]	BDL (<0.001)	IS 3025 (Part 37) : 1988 RA 2019	0.01	-
11	Lead [mg/l]	BDL (<0.01)	IS 3025 (Part 47) : 1994 RA 2019	0.01	-

Sunil

Raj



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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
12	Zinc [mg/l]	BDL (<0.01)	IS 3025 (Part 49) : 1994 RA 2019	5.00	15.00
13	Alkalinity - T [mg/l]	585.75	IS 3025 (Part 23) : 1986 RA 2019	200.00	600.00
14	Suspended Solids [mg/l]	14	IS 3025 (Part 17) : 1984 RA 2017	-	-
15	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2019	0.2(minimum)	1
16	Mercury [mg/l]	BDL (<0.001)	IS 3025 (Part 48) : 1994 RA 2019	0.001	No relaxation
17	Cyanide [mg/l]	BDL (<0.01)	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
18	Nickel [mg/l]	BDL (<0.01)	IS 3025 (Part 54) : 2003 RA 2019	0.02	-
19	Total Solids [mg/l]	977	IS 3025 (part 15) : 1984 RA 2019	-	-

Notes :-

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

Sunil Kumar
Senior Analyst

Rajesh Maheehwari
Authorized Signatory
(Report No: 23100001636)



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

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

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Email : team.bdhead@gmail.com

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

TEST REPORT

Report No./ULR No. :	100001636	Date :	04-10-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Water / Chemical	Date of Sample Collection/Monitoring :	16-09-2023
Point of Collection :	Reimagra	Date of Receipt :	25-09-2023
Date of Test/Analysis :	25-09-2023 to 04-10-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Sunil Chouhan	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
20	Cobalt [mg/l]	BDL (<0.01)	APHA :2017 :3111- B	-	-

Notes :-

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

TEST REPORT

Report No./ULR No. :	23100001637	Date :	04-10-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Water / Chemical	Date of Sample Collection/Monitoring :	16-09-2023
Point of Collection :	Rajpura Village	Date of Receipt :	25-09-2023
Date of Test/Analysis :	25-09-2023 to 04-10-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Sunil Chouhan	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	pH	7.50	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
2	Hardness (total) [mg/l]	486.24	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
3	Iron [mg/l]	BDL (<0.01)	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
4	Chloride [mg/l]	194.76	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	980	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	40.13	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
7	Copper [mg/l]	BDL (<0.01)	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
8	Sulphate [mg/l]	61.2	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
9	Cadmium [mg/l]	BDL (<0.001)	IS 3025 (Part 41) : 1992 RA 2019	0.003	-
10	Arsenic [mg/l]	BDL (<0.001)	IS 3025 (Part 37) : 1988 RA 2019	0.01	-
11	Lead [mg/l]	BDL (<0.01)	IS 3025 (Part 47) : 1994 RA 2019	0.01	-

Sunil

Raj



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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
12	Zinc [mg/l]	0.06	IS 3025 (Part 49) : 1994 RA 2019	5.00	15.00
13	Alkalinity - T [mg/l]	511.5	IS 3025 (Part 23) : 1986 RA 2019	200.00	600.00
14	Suspended Solids [mg/l]	14	IS 3025 (Part 17) : 1984 RA 2017	-	-
15	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2019	0.2(minimum)	1
16	Mercury [mg/l]	BDL (<0.001)	IS 3025 (Part 48) : 1994 RA 2019	0.001	No relaxation
17	Cyanide [mg/l]	BDL (<0.01)	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
18	Nickel [mg/l]	BDL (<0.01)	IS 3025 (Part 54) : 2003 RA 2019	0.02	-
19	Total Solids [mg/l]	994	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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Sunil Kumar
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 23100001637)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	100001637	Date :	04-10-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Water / Chemical	Date of Sample Collection/Monitoring :	16-09-2023
Point of Collection :	Rajpura Village	Date of Receipt :	25-09-2023
Date of Test/Analysis :	25-09-2023 to 04-10-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Sunil Chouhan	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
20	Cobalt [mg/l]	BDL (<0.01)	APHA :2017 :3111- B	-	-

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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Sunil Kumar
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 100001637)



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TEST REPORT

Report No./ULR No. :	23100001638	Date :	04-10-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Water / Chemical	Date of Sample Collection/Monitoring :	16-09-2023
Point of Collection :	Ragunath pura	Date of Receipt :	25-09-2023
Date of Test/Analysis :	25-09-2023 to 04-10-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Sunil Chouhan	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	pH	7.59	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
2	Hardness (total) [mg/l]	440.37	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
3	Iron [mg/l]	BDL (<0.01)	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
4	Chloride [mg/l]	81.71	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	673	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	26.75	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
7	Copper [mg/l]	BDL (<0.01)	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
8	Sulphate [mg/l]	108.33	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
9	Cadmium [mg/l]	BDL (<0.001)	IS 3025 (Part 41) : 1992 RA 2019	0.003	-
10	Arsenic [mg/l]	BDL (<0.001)	IS 3025 (Part 37) : 1988 RA 2019	0.01	-
11	Lead [mg/l]	BDL (<0.01)	IS 3025 (Part 47) : 1994 RA 2019	0.01	-

Sunil

Raj



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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
12	Zinc [mg/l]	0.94	IS 3025 (Part 49) : 1994 RA 2019	5.00	15.00
13	Alkalinity - T [mg/l]	387.75	IS 3025 (Part 23) : 1986 RA 2019	200.00	600.00
14	Suspended Solids [mg/l]	16	IS 3025 (Part 17) : 1984 RA 2017	-	-
15	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2019	0.2(minimum)	1
16	Mercury [mg/l]	BDL (<0.001)	IS 3025 (Part 48) : 1994 RA 2019	0.001	No relaxation
17	Cyanide [mg/l]	BDL (<0.01)	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
18	Nickel [mg/l]	BDL (<0.01)	IS 3025 (Part 54) : 2003 RA 2019	0.02	-
19	Total Solids [mg/l]	689	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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Sunil Kumar
Senior Analyst

Raresh Maheshwari
Authorized Signatory
(Report No: 23100001638)



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

TEST REPORT

Report No./ULR No. :	100001638	Date :	04-10-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Water / Chemical	Date of Sample Collection/Monitoring :	16-09-2023
Point of Collection :	Ragunath pura	Date of Receipt :	25-09-2023
Date of Test/Analysis :	25-09-2023 to 04-10-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Sunil Chouhan	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
20	Cobalt [mg/l]	BDL (<0.01)	APHA :2017 :3111- B	-	-

Notes :-

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Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 100001638)



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

TEST REPORT

Report No./ULR No. :	23100001639	Date :	04-10-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Water / Chemical	Date of Sample Collection/Monitoring :	18-09-2023
Point of Collection :	Amarpura Village	Date of Receipt :	25-09-2023
Date of Test/Analysis :	25-09-2023 to 04-10-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Sunil Chouhan	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	pH	7.76	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
2	Hardness (total) [mg/l]	394.5	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
3	Iron [mg/l]	BDL (<0.01)	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
4	Chloride [mg/l]	115.91	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	1184	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	62.42	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
7	Copper [mg/l]	BDL (<0.01)	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
8	Sulphate [mg/l]	54.66	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
9	Cadmium [mg/l]	BDL (<0.001)	IS 3025 (Part 41) : 1992 RA 2019	0.003	-
10	Arsenic [mg/l]	BDL (<0.001)	IS 3025 (Part 37) : 1988 RA 2019	0.01	-
11	Lead [mg/l]	BDL (<0.01)	IS 3025 (Part 47) : 1994 RA 2019	0.01	-

Sunil

Bai-



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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
12	Zinc [mg/l]	BDL (<0.01)	IS 3025 (Part 49) : 1994 RA 2019	5.00	15.00
13	Alkalinity - T [mg/l]	717.75	IS 3025 (Part 23) : 1986 RA 2019	200.00	600.00
14	Suspended Solids [mg/l]	15	IS 3025 (Part 17) : 1984 RA 2017	-	-
15	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2019	0.2(minimum)	1
16	Mercury [mg/l]	BDL (<0.001)	IS 3025 (Part 48) : 1994 RA 2019	0.001	No relaxation
17	Cyanide [mg/l]	BDL (<0.01)	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
18	Nickel [mg/l]	BDL (<0.01)	IS 3025 (Part 54) : 2003 RA 2019	0.02	-
19	Total Solids [mg/l]	1199	IS 3025 (part 15) : 1984 RA 2019	-	-

Notes :-

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Sunit Kumar
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 23100001639)



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TEST REPORT

Report No./ULR No. :	100001639	Date :	04-10-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Water / Chemical	Date of Sample Collection/Monitoring :	18-09-2023
Point of Collection :	Amarpura Village	Date of Receipt :	25-09-2023
Date of Test/Analysis :	25-09-2023 to 04-10-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Sunil Chouhan	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
20	Cobalt [mg/l]	BDL (<0.01)	APHA :2017 :3111- B	-	-

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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Sumit Kumar
Senior Analyst

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

TEST REPORT

Report No./ULR No. :	23100001640	Date :	04-10-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Water / Chemical	Date of Sample Collection/Monitoring :	18-09-2023
Point of Collection :	Barniya Kalan	Date of Receipt :	25-09-2023
Date of Test/Analysis :	25-09-2023 to 04-10-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Sunil Chouhan	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	pH	7.60	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
2	Hardness (total) [mg/l]	293.58	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
3	Iron [mg/l]	BDL (<0.01)	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
4	Chloride [mg/l]	104.51	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	693	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	22.29	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
7	Copper [mg/l]	BDL (<0.01)	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
8	Sulphate [mg/l]	82.5	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
9	Cadmium [mg/l]	BDL (<0.001)	IS 3025 (Part 41) : 1992 RA 2019	0.003	-
10	Arsenic [mg/l]	BDL (<0.001)	IS 3025 (Part 37) : 1988 RA 2019	0.01	-
11	Lead [mg/l]	BDL (<0.01)	IS 3025 (Part 47) : 1994 RA 2019	0.01	-

Sunil

Banwari



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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
12	Zinc [mg/l]	0.02	IS 3025 (Part 49) : 1994 RA 2019	5.00	15.00
13	Alkalinity - T [mg/l]	371.25	IS 3025 (Part 23) : 1986 RA 2019	200.00	600.00
14	Suspended Solids [mg/l]	5	IS 3025 (Part 17) : 1984 RA 2017	-	-
15	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2019	0.2(minimum)	1
16	Mercury [mg/l]	BDL (<0.001)	IS 3025 (Part 48) : 1994 RA 2019	0.001	No relaxation
17	Cyanide [mg/l]	BDL (<0.01)	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
18	Nickel [mg/l]	BDL (<0.01)	IS 3025 (Part 54) : 2003 RA 2019	0.02	-
19	Total Solids [mg/l]	698	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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Sunil Kumar
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 23100001640)



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TEST REPORT

Report No./ULR No. :	100001640	Date :	04-10-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Water / Chemical	Date of Sample Collection/Monitoring :	18-09-2023
Point of Collection :	Barniya Kalan	Date of Receipt :	25-09-2023
Date of Test/Analysis :	25-09-2023 to 04-10-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Sunil Chouhan	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
20	Cobalt [mg/l]	BDL (<0.01)	APHA :2017 :3111- B	-	-

Notes :-

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Sumit Kumar
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 100001640)



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TEST REPORT

Report No./ULR No. :	23100001641	Date :	04-10-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Water / Chemical	Date of Sample Collection/Monitoring :	18-09-2023
Point of Collection :	Sindersar Khurd Village	Date of Receipt :	25-09-2023
Date of Test/Analysis :	25-09-2023 to 04-10-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Sunil Chouhan	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	pH	7.15	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
2	Hardness (total) [mg/l]	286.24	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
3	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
4	Chloride [mg/l]	42.75	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	510	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	9.81	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
7	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
8	Sulphate [mg/l]	124.16	IS 3025 (Part 24) : 1986 RA 2019	200.00	400.00
9	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019	0.003	-
10	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2019	0.01	-
11	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2019	0.01	-

Signature

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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
12	Zinc [mg/l]	0.05	IS 3025 (Part 49) : 1994 RA 2019	5.00	15.00
13	Alkalinity - T [mg/l]	270.6	IS 3025 (Part 23) : 1986 RA 2019	200.00	600.00
14	Suspended Solids [mg/l]	11	IS 3025 (Part 17) : 1984 RA 2017	-	-
15	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2019	0.2(minimum)	1
16	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2019	0.001	No relaxation
17	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
18	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2019	0.02	-
19	Total Solids [mg/l]	521	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: 23100001641)



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TEST REPORT

Report No./ULR No. :	100001641	Date :	04-10-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Water / Chemical	Date of Sample Collection/Monitoring :	18-09-2023
Point of Collection :	Sindersar Khurd Village	Date of Receipt :	25-09-2023
Date of Test/Analysis :	25-09-2023 to 04-10-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Sunil Chouhan	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
20	Cobalt [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	-	-

Notes :-

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Sunil Kumar
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 100001641)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523100001114	Date :	24-06-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Water / Chemical	Date of Sample Collection/Monitoring :	09-06-2023
Point of Collection :	PW-1	Date of Receipt :	12-06-2023
Date of Test/Analysis :	12-06-2023 to 24-06-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.02	IS 3025 (Part 11) : 1983 RA 2017
2	Hardness (total) [mg/l]	471.15	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	0.06	IS 3025 (Part 53) : 2003 RA 2019
4	Chloride [mg/l]	559.26	IS 3025 (Part 32) : 1988 RA 2019
5	Total Dissolved Solids [mg/l]	1914	IS 3025 (Part 16) : 1984 RA 2017
6	Magnesium [mg/l]	46.73	IS 3025 (Part 46) : 1994 RA 2019
7	Copper [mg/l]	BDL (<0.01)	IS 3025 (Part 42) : 1992 RA 2019
8	Sulphate [mg/l]	520.0	IS 3025 (Part 24) : 1986 RA 2019
9	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019
10	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2019
11	Lead [mg/l]	BDL (<0.01)	IS 3025 (Part 47) : 1994 RA 2019
12	Zinc [mg/l]	0.14	IS 3025 (Part 49) : 1994 RA 2019
13	Alkalinity - T [mg/l]	394.8	IS 3025 (Part 23) : 1986 RA 2019
14	Suspended Solids [mg/l]	21	IS 3025 (Part 17) : 1984 RA 2017

Rajesh Maheshwar



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

S.No	Parameters	Observed Value	Testing Protocol
15	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2019
16	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2019
17	Nickel [mg/l]	BDL (<0.01)	IS 3025 (Part 54) : 2003 RA 2019
18	Total Solids [mg/l]	1935	IS 3025 (part 15) : 1984 RA 2019

Notes :-

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Balram
Balram Agarwal
Senior Analyst

Rajesh Maneshwar
Authorized Signatory
(Report No: TC502523100001114)



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

TEST REPORT

Report No./ULR No. :	100001114	Date :	24-06-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Water / Chemical	Date of Sample Collection/Monitoring :	09-06-2023
Point of Collection :	PW-1	Date of Receipt :	12-06-2023
Date of Test/Analysis :	12-06-2023 to 24-06-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
19	Cobalt [mg/l]	BDL (<0.01)	APHA :2017 :3111- B

Notes :-

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Balraj Agarwal
Balraj Agarwal
Senior Analyst

Rajesh Vimalanathan
Rajesh Vimalanathan
Authorized Signatory
(Report No: 100001114)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523100001115	Date :	24-06-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Water / Chemical	Date of Sample Collection/Monitoring :	09-06-2023
Point of Collection :	PW-2	Date of Receipt :	12-06-2023
Date of Test/Analysis :	12-06-2023 to 24-06-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.16	IS 3025 (Part 11) : 1983 RA 2017
2	Hardness (total) [mg/l]	423.08	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	0.04	IS 3025 (Part 53) : 2003 RA 2019
4	Chloride [mg/l]	424.27	IS 3025 (Part 32) : 1988 RA 2019
5	Total Dissolved Solids [mg/l]	1826	IS 3025 (Part 16) : 1984 RA 2017
6	Magnesium [mg/l]	44.39	IS 3025 (Part 46) : 1994 RA 2019
7	Copper [mg/l]	BDL (<0.01)	IS 3025 (Part 42) : 1992 RA 2019
8	Sulphate [mg/l]	442.6	IS 3025 (Part 24) : 1986 RA 2019
9	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019
10	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2019
11	Lead [mg/l]	BDL (<0.01)	IS 3025 (Part 47) : 1994 RA 2019
12	Zinc [mg/l]	0.02	IS 3025 (Part 49) : 1994 RA 2019
13	Alkalinity - T [mg/l]	310.2	IS 3025 (Part 23) : 1986 RA 2019
14	Suspended Solids [mg/l]	32	IS 3025 (Part 17) : 1984 RA 2017

Rajesh Kumar



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

S.No	Parameters	Observed Value	Testing Protocol
15	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2019
16	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2019
17	Nickel [mg/l]	BDL (<0.01)	IS 3025 (Part 54) : 2003 RA 2019
18	Total Solids [mg/l]	1858	IS 3025 (part 15) : 1984 RA 2019

Notes :-

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Babram Agarwal
Senior Analyst

Rajesh Maneshwan
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(Report No: TC502523100001115)



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TEST REPORT

Report No./ULR No. :	100001115	Date :	24-06-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Water / Chemical	Date of Sample Collection/Monitoring :	09-06-2023
Point of Collection :	PW-2	Date of Receipt :	12-06-2023
Date of Test/Analysis :	12-06-2023 to 24-06-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
19	Cobalt [mg/l]	BDL(<0.01)	APHA :2017 :3111- B

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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Balram Agarwal
Senior Analyst

Rajesh Nishanwan
Authorized Signatory
(Report No: 100001115)



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

TEST REPORT

Report No./ULR No. :	TC502523100001116	Date :	24-06-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Water / Chemical	Date of Sample Collection/Monitoring :	09-06-2023
Point of Collection :	PW-3	Date of Receipt :	12-06-2023
Date of Test/Analysis :	12-06-2023 to 24-06-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.13	IS 3025 (Part 11) : 1983 RA 2017
2	Hardness (total) [mg/l]	480.77	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	0.05	IS 3025 (Part 53) : 2003 RA 2019
4	Chloride [mg/l]	433.91	IS 3025 (Part 32) : 1988 RA 2019
5	Total Dissolved Solids [mg/l]	1935	IS 3025 (Part 16) : 1984 RA 2017
6	Magnesium [mg/l]	70.09	IS 3025 (Part 46) : 1994 RA 2019
7	Copper [mg/l]	BDL (<0.01)	IS 3025 (Part 42) : 1992 RA 2019
8	Sulphate [mg/l]	396	IS 3025 (Part 24) : 1986 RA 2019
9	Cadmium [mg/l]	BDL (<0.001)	IS 3025 (Part 41) : 1992 RA 2019
10	Arsenic [mg/l]	BDL (<0.001)	IS 3025 (Part 37) : 1988 RA 2019
11	Lead [mg/l]	BDL (<0.01)	IS 3025 (Part 47) : 1994 RA 2019
12	Zinc [mg/l]	0.02	IS 3025 (Part 49) : 1994 RA 2019
13	Alkalinity - T [mg/l]	291.4	IS 3025 (Part 23) : 1986 RA 2019
14	Suspended Solids [mg/l]	22	IS 3025 (Part 17) : 1984 RA 2017

Rajesh Maheshwar



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

S.No	Parameters	Observed Value	Testing Protocol
15	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2019
16	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2019
17	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2019
18	Total Solids [mg/l]	1957	IS 3025 (part 15) : 1984 RA 2019

Notes :-

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Balram Agarwal
Senior Analyst


Rajesh Maheshwari
Authorized Signatory

(Report No: TC502523100001116)



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TEST REPORT

Report No./ULR No. :	100001116	Date :	24-06-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Water / Chemical	Date of Sample Collection/Monitoring :	09-06-2023
Point of Collection :	PW-3	Date of Receipt :	12-06-2023
Date of Test/Analysis :	12-06-2023 to 24-06-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
19	Cobalt [mg/l]	BDL (<0.01)	APHA :2017 :3111- B

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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Balram Agarwal
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Rajesh Maneshwar
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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523100001117	Date :	24-06-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Water / Chemical	Date of Sample Collection/Monitoring :	09-06-2023
Point of Collection :	PW-4	Date of Receipt :	12-06-2023
Date of Test/Analysis :	12-06-2023 to 24-06-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.27	IS 3025 (Part 11) : 1983 RA 2017
2	Hardness (total) [mg/l]	500	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	0.08	IS 3025 (Part 53) : 2003 RA 2019
4	Chloride [mg/l]	443.55	IS 3025 (Part 32) : 1988 RA 2019
5	Total Dissolved Solids [mg/l]	1949	IS 3025 (Part 16) : 1984 RA 2017
6	Magnesium [mg/l]	53.74	IS 3025 (Part 46) : 1994 RA 2019
7	Copper [mg/l]	BDL (<0.01)	IS 3025 (Part 42) : 1992 RA 2019
8	Sulphate [mg/l]	398.6	IS 3025 (Part 24) : 1986 RA 2019
9	Cadmium [mg/l]	BDL (<0.001)	IS 3025 (Part 41) : 1992 RA 2019
10	Arsenic [mg/l]	BDL (<0.001)	IS 3025 (Part 37) : 1988 RA 2019
11	Lead [mg/l]	BDL (<0.01)	IS 3025 (Part 47) : 1994 RA 2019
12	Zinc [mg/l]	0.27	IS 3025 (Part 49) : 1994 RA 2019
13	Alkalinity - T [mg/l]	272.6	IS 3025 (Part 23) : 1986 RA 2019
14	Suspended Solids [mg/l]	35	IS 3025 (Part 17) : 1984 RA 2017



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

S.No	Parameters	Observed Value	Testing Protocol
15	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2019
16	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2019
17	Nickel [mg/l]	BDL (<0.01)	IS 3025 (Part 54) : 2003 RA 2019
18	Total Solids [mg/l]	1984	IS 3025 (part 15) : 1984 RA 2019

Notes :-

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Balram Agarwal
Senior Analyst


Rajesh Malleshwar
Authorized Signatory
(Report No: TC502523100001117)



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TEST REPORT

Report No./ULR No. :	100001117	Date :	24-06-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Water / Chemical	Date of Sample Collection/Monitoring :	09-06-2023
Point of Collection :	PW-4	Date of Receipt :	12-06-2023
Date of Test/Analysis :	12-06-2023 to 24-06-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
19	Cobalt [mg/l]	BDL (<0.01)	APHA :2017 :3111- B

Notes :-

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Balram
Balram Agarwal
Senior Analyst

Rajesh
Rajesh Manushwan
Authorized Signatory
(Report No: 100001117)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523100001118	Date :	24-06-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Water / Chemical	Date of Sample Collection/Monitoring :	09-06-2023
Point of Collection :	PW-5	Date of Receipt :	12-06-2023
Date of Test/Analysis :	12-06-2023 to 24-06-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.23	IS 3025 (Part 11) : 1983 RA 2017
2	Hardness (total) [mg/l]	557.69	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	0.07	IS 3025 (Part 53) : 2003 RA 2019
4	Chloride [mg/l]	549.62	IS 3025 (Part 32) : 1988 RA 2019
5	Total Dissolved Solids [mg/l]	1889	IS 3025 (Part 16) : 1984 RA 2017
6	Magnesium [mg/l]	49.07	IS 3025 (Part 46) : 1994 RA 2019
7	Copper [mg/l]	BDL (<0.01)	IS 3025 (Part 42) : 1992 RA 2019
8	Sulphate [mg/l]	545	IS 3025 (Part 24) : 1986 RA 2019
9	Cadmium [mg/l]	BDL (<0.001)	IS 3025 (Part 41) : 1992 RA 2019
10	Arsenic [mg/l]	BDL (<0.001)	IS 3025 (Part 37) : 1988 RA 2019
11	Lead [mg/l]	BDL (<0.01)	IS 3025 (Part 47) : 1994 RA 2019
12	Zinc [mg/l]	0.29	IS 3025 (Part 49) : 1994 RA 2019
13	Alkalinity - T [mg/l]	244.4	IS 3025 (Part 23) : 1986 RA 2019
14	Suspended Solids [mg/l]	31	IS 3025 (Part 17) : 1984 RA 2017

Rajesh Kumar



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Email : marketinglab@teamtesthouse.com

S.No	Parameters	Observed Value	Testing Protocol
15	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2019
16	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2019
17	Nickel [mg/l]	BDL (<0.01)	IS 3025 (Part 54) : 2003 RA 2019
18	Total Solids [mg/l]	1920	IS 3025 (part 15) : 1984 RA 2019

Notes :-

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Balraj Agarwal
Senior Analyst


Rajesh Mangshwan
Authorized Signatory
(Report No: TC502523100001118)



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TEST REPORT

Report No./ULR No. :	100001118	Date :	24-06-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Water / Chemical	Date of Sample Collection/Monitoring :	09-06-2023
Point of Collection :	PW-5	Date of Receipt :	12-06-2023
Date of Test/Analysis :	12-06-2023 to 24-06-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
19	Cobalt [mg/l]	BDL (<0.01)	APHA :2017 :3111- B

Notes :-

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Balram Agarwal
Senior Analyst

Rajesh Maheshwari
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(Report No: 100001118)



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TEST REPORT

Report No./ULR No.:	TC502523100001119	Date :	24-06-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Water / Chemical	Date of Sample Collection/Monitoring :	09-06-2023
Point of Collection :	PW-6	Date of Receipt :	12-06-2023
Date of Test/Analysis :	12-06-2023 to 24-06-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.06	IS 3025 (Part 11) : 1983 RA 2017
2	Hardness (total) [mg/l]	538.46	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	0.09	IS 3025 (Part 53) : 2003 RA 2019
4	Chloride [mg/l]	318.2	IS 3025 (Part 32) : 1988 RA 2019
5	Total Dissolved Solids [mg/l]	1942	IS 3025 (Part 16) : 1984 RA 2017
6	Magnesium [mg/l]	58.41	IS 3025 (Part 46) : 1994 RA 2019
7	Copper [mg/l]	BDL (<0.01)	IS 3025 (Part 42) : 1992 RA 2019
8	Sulphate [mg/l]	374.2	IS 3025 (Part 24) : 1986 RA 2019
9	Cadmium [mg/l]	BDL (<0.001)	IS 3025 (Part 41) : 1992 RA 2019
10	Arsenic [mg/l]	BDL (<0.001)	IS 3025 (Part 37) : 1988 RA 2019
11	Lead [mg/l]	BDL (<0.01)	IS 3025 (Part 47) : 1994 RA 2019
12	Zinc [mg/l]	0.12	IS 3025 (Part 49) : 1994 RA 2019
13	Alkalinity - T [mg/l]	310.2	IS 3025 (Part 23) : 1986 RA 2019
14	Suspended Solids [mg/l]	26	IS 3025 (Part 17) : 1984 RA 2017

Rajesh Bhatnagar



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

S.No	Parameters	Observed Value	Testing Protocol
15	Mercury [mg/l]	BDL (<0.001)	IS 3025 (Part 48) : 1994 RA 2019
16	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2019
17	Nickel [mg/l]	BDL (<0.01)	IS 3025 (Part 54) : 2003 RA 2019
18	Total Solids [mg/l]	1968	IS 3025 (part 15) : 1984 RA 2019

Notes :-

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Balram
Balram Agarwal
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Rajesh Mishra
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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	100001119	Date :	24-06-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Water / Chemical	Date of Sample Collection/Monitoring :	09-06-2023
Point of Collection :	PW-6	Date of Receipt :	12-06-2023
Date of Test/Analysis :	12-06-2023 to 24-06-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
19	Cobalt [mg/l]	BDL (<0.01)	APHA :2017 :3111- B

Notes :-

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Balram Agarwal
Senior Analyst


Rajesh Mishra
Authorized Signatory
(Report No: 100001119)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No.	TTH/SKM/SA09/W-01	Date :	07.10.2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O.: Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Potable and Domestic Water	Date of Sample Collection/Monitoring :	17-09-2023
Point of Collection :	PW-1	Date of Receipt :	25.09.2023
Date of Test/Analysis :	25.09.2023 to 07.10.2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	Sample Collected By :	Banawari Lal
Unit's representative :	Mr. Sunil Chauhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.38	IS 3025 (Part 11) : 1983 RA 2017
2	Hardness (total) [mg/l]	530	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019
4	Chloride [mg/l]	426.31	IS 3025 (Part 32) : 1988 RA 2019
5	Total Dissolved Solids [mg/l]	1974	IS 3025 (Part 16) : 1984 RA 2017
6	Magnesium [mg/l]	780.43	IS 3025 (Part 46) : 1994 RA 2019
7	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992 RA 2019
8	Sulphate [mg/l]	279.58	IS 3025 (Part 24) : 1986 RA 2019

Note:

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Sunil Kumar


Puran Mal Yogi



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RESULTS

S.No	Parameters	Observed Value	Testing Protocol
9	Nitrate [mg/l]	14.39	IS 3025 (Part 34) : 1988 RA 2019
10	Cadmium [mg/l]	BDL (< 0.001)	IS 3025 (Part 41) : 1992 RA 2019
11	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2019
12	Lead [mg/l]	BDL (< 0.01)	IS 3025 (Part 47) : 1994 RA 2019
13	Zinc [mg/l]	0.18	IS 3025 (Part 49) : 1994 RA 2019
14	Alkalinity - T [mg/l]	310	IS 3025 (Part 23) : 1986 RA 2019
15	Suspended Solids [mg/l]	16	IS 3025 (Part 17) : 1984 RA 2017
16	Cobalt [mg/l]	BDL(<0.01)	APHA :2017 :3111- B
17	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2019
18	Cyanide [mg/l]	BDL (<0.01)	IS 3025 (Part 27) : 1986 RA 2019
19	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2019
20	Total Solids [mg/l]	1990	IS 3025 (part 15) : 1984 RA 2019

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Sunil Kumar
Senior Analyst


Pooja Yogi
Authorized Signatory
(Report No: TTH/SKM/SA09/W-01)



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TEST REPORT

Report No.	TTH/SKM/SA09/W-02	Date :	07.10.2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O.:Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Potable and Domestic Water	Date of Sample Collection/Monitoring :	17-09-2023
Point of Collection :	PW-2	Date of Receipt :	25.09.2023
Date of Test/Analysis :	25.09.2023 to 07.10.2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	Sample Collected By :	Banawari Lal Sample :
Unit's representative :	Mr. Sunil Chauhan	Condition of Sample :	Unit's

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.53	IS 3025 (Part 11) : 1983 RA 2017
2	Hardness (total) [mg/l]	390	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019
4	Chloride [mg/l]	461.47	IS 3025 (Part 32) : 1988 RA 2019
5	Total Dissolved Solids [mg/l]	1930	IS 3025 (Part 16) : 1984 RA 2017
6	Magnesium [mg/l]	55.46	IS 3025 (Part 46) : 1994 RA 2019
7	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992 RA 2019
8	Sulphate [mg/l]	271	IS 3025 (Part 24) : 1986 RA 2019

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Sunil
Sunil Kumar



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RESULTS

S.No	Parameters	Observed Value	Testing Protocol
9	Nitrate [mg/l]	5.61	IS 3025 (Part 34) : 1988 RA 2019
10	Cadmium [mg/l]	BDL (<0.001)	IS 3025 (Part 41) : 1992 RA 2019
11	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2019
12	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2019
13	Zinc [mg/l]	0.13	IS 3025 (Part 49) : 1994 RA 2019
14	Alkalinity - T [mg/l]	260	IS 3025 (Part 23) : 1986 RA 2019
15	Suspended Solids [mg/l]	13	IS 3025 (Part 17) : 1984 RA 2017
16	Cobalt [mg/l]	BDL(<0.01)	APHA :2017 :3111- B
17	Mercury [mg/l]	BDL (< 0.001)	IS 3025 (Part 48) : 1994 RA 2019
18	Cyanide [mg/l]	BDL (<0.01)	IS 3025 (Part 27) : 1986 RA 2019
19	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2019
20	Total Solids [mg/l]	1943	IS 3025 (part 15) : 1984 RA 2019

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Sunil Kumar
Senior Analyst


Purnan Mal Yogi
Authorized Signatory
(Report No: TTH/SKM/SA09/W-02)



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TEST REPORT

Report No.:	TTH/SKM/SA09/W-03	Date :	07.10.2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O.: Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Potable and Domestic Water	Date of Sample Collection/Monitoring :	17-09-2023
Point of Collection :	PW-3	Date of Receipt :	25.09.2023
Date of Test/Analysis :	25.09.2023 to 07.10.2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	Sample Collected By :	Banawari Lal
Unit's representative :	Mr. Sunil Chauhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.33	IS 3025 (Part 11) : 1983 RA 2017
2	Hardness (total) [mg/l]	530	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019
4	Chloride [mg/l]	560.00	IS 3025 (Part 32) : 1988 RA 2019
5	Total Dissolved Solids [mg/l]	1932	IS 3025 (Part 16) : 1984 RA 2017
6	Magnesium [mg/l]	55.89	IS 3025 (Part 46) : 1994 RA 2019
7	Copper [mg/l]	0.01	IS 3025 (Part 42) : 1992 RA 2019
8	Sulphate [mg/l]	296.05	IS 3025 (Part 24) : 1986 RA 2019

Note:

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Email : marketinglab@teamtesthouse.com

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
9	Nitrate [mg/l]	8.47	IS 3025 (Part 34) : 1988 RA 2019
10	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019
11	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2019
12	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2019
13	Zinc [mg/l]	0.16	IS 3025 (Part 49) : 1994 RA 2019
14	Alkalinity - T [mg/l]	410	IS 3025 (Part 23) : 1986 RA 2019
15	Suspended Solids [mg/l]	11	IS 3025 (Part 17) : 1984 RA 2017
16	Cobalt [mg/l]	BDL(<0.01)	APHA :2017 :3111- B
17	Mercury [mg/l]	BDL (<0.001)	IS 3025 (Part 48) : 1994 RA 2019
18	Cyanide [mg/l]	BDL (<0.01)	IS 3025 (Part 27) : 1986 RA 2019
19	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2019
20	Total Solids [mg/l]	1943	IS 3025 (part 15) : 1984 RA 2019

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Senior Analyst


Authorized Signatory
(Report No: TTH/SKM/SA09/W-03)



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TEST REPORT

Report No.	TTH/SKM/SA09/W-04	Date :	07.10.2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O.: Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Potable and Domestic Water	Date of Sample Collection/Monitoring :	17-09-2023
Point of Collection :	PW-4	Date of Receipt :	25.09.2023
Date of Test/Analysis :	25.09.2023 to 07.10.2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	Sample Collected By :	Banawari Lal Sample :
Unit's representative :	Mr. Sunil Chauhan	Condition of Sample :	Unit's

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.43	IS 3025 (Part 11) : 1983 RA 2017
2	Hardness (total) [mg/l]	440	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019
4	Chloride [mg/l]	374.88	IS 3025 (Part 32) : 1988 RA 2019
5	Total Dissolved Solids [mg/l]	1901	IS 3025 (Part 16) : 1984 RA 2017
6	Magnesium [mg/l]	68.47	IS 3025 (Part 46) : 1994 RA 2019
7	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992 RA 2019
8	Sulphate [mg/l]	310.23	IS 3025 (Part 24) : 1986 RA 2019

Note:

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol
9	Nitrate [mg/l]	21.3	IS 3025 (Part 34) : 1988 RA 2019
10	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019
11	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2019
12	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2019
13	Zinc [mg/l]	0.19	IS 3025 (Part 49) : 1994 RA 2019
14	Alkalinity - T [mg/l]	230	IS 3025 (Part 23) : 1986 RA 2019
15	Suspended Solids [mg/l]	15	IS 3025 (Part 17) : 1984 RA 2017
16	Cobalt [mg/l]	BDL(<0.01)	APHA :2017 :3111- B
17	Mercury [mg/l]	BDL (<0.001)	IS 3025 (Part 48) : 1994 RA 2019
18	Cyanide [mg/l]	BDL (<0.01)	IS 3025 (Part 27) : 1986 RA 2019
19	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2019
20	Total Solids [mg/l]	1916	IS 3025 (part 15) : 1984 RA 2019

Notes :-

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Sanjay Kumar
Senior Analyst


Purnan Mal Yogi
Authorized Signatory
(Report No: TTH/SKM/SA09/W-04)



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TEST REPORT

Report No.	TTH/SKM/SA09/W-05	Date :	07.10.2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O.: Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Potable and Domestic Water	Date of Sample Collection/Monitoring :	17-09-2023
Point of Collection :	PW-5	Date of Receipt :	25.09.2023
Date of Test/Analysis :	25.09.2023 to 07.10.2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	Sample Collected By :	Banawari Lal Sample :
Unit's representative :	Mr. Sunil Chauhan	Condition of Sample :	Unit's

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.41	IS 3025 (Part 11) : 1983 RA 2017
2	Hardness (total) [mg/l]	290	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	0.11	IS 3025 (Part 53) : 2003 RA 2019
4	Chloride [mg/l]	359.89	IS 3025 (Part 32) : 1988 RA 2019
5	Total Dissolved Solids [mg/l]	1564	IS 3025 (Part 16) : 1984 RA 2017
6	Magnesium [mg/l]	46.7	IS 3025 (Part 46) : 1994 RA 2019
7	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992 RA 2019
8	Sulphate [mg/l]	213.30	IS 3025 (Part 24) : 1986 RA 2019

Note:

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Puran Mal Yogi

Sunil Kumar



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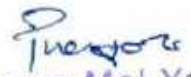
RESULTS

S.No	Parameters	Observed Value	Testing Protocol
9	Nitrate [mg/l]	13.5	IS 3025 (Part 34) : 1988 RA 2019
10	Cadmium [mg/l]	BDL (<0.001)	IS 3025 (Part 41) : 1992 RA 2019
11	Arsenic [mg/l]	BDL (<0.001)	IS 3025 (Part 37) : 1988 RA 2019
12	Lead [mg/l]	BDL (<0.01)	IS 3025 (Part 47) : 1994 RA 2019
13	Zinc [mg/l]	0.11	IS 3025 (Part 49) : 1994 RA 2019
14	Alkalinity - T [mg/l]	396	IS 3025 (Part 23) : 1986 RA 2019
15	Suspended Solids [mg/l]	14	IS 3025 (Part 17) : 1984 RA 2017
16	Cobalt [mg/l]	BDL (<0.01)	APHA :2017 :3111- B
17	Mercury [mg/l]	BDL (<0.001)	IS 3025 (Part 48) : 1994 RA 2019
18	Cyanide [mg/l]	BDL (<0.01)	IS 3025 (Part 27) : 1986 RA 2019
19	Nickel [mg/l]	BDL (<0.01)	IS 3025 (Part 54) : 2003 RA 2019
20	Total Solids [mg/l]	1578	IS 3025 (part 15) : 1984 RA 2019

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Senior Analyst
Sunil Kumar


Authorized Signatory
(Report No: TTH/SKM/SA09/W-05)



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TEST REPORT

Report No.	TTH/SKM/SA09/W-06	Date :	07.10.2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O.:Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Potable and Domestic Water	Date of Sample Collection/Monitoring :	17-09-2023
Point of Collection :	PW-6	Date of Receipt :	25.09.2023
Date of Test/Analysis :	25.09.2023 to 07.10.2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	Sample Collected By :	Banawari Lal
Unit's representative :	Mr. Sunil Chauhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.56	IS 3025 (Part 11) : 1983 RA 2017
2	Hardness (total) [mg/l]	550	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019
4	Chloride [mg/l]	279.91	IS 3025 (Part 32) : 1988 RA 2019
5	Total Dissolved Solids [mg/l]	1454	IS 3025 (Part 16) : 1984 RA 2017
6	Magnesium [mg/l]	77.84	IS 3025 (Part 46) : 1994 RA 2019
7	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992 RA 2019
8	Sulphate [mg/l]	226.40	IS 3025 (Part 24) : 1986 RA 2019

Note:

Continue to next page...

Sunil Kumar

Puran Mal Yogi



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Email : marketinglab@teamtesthouse.com

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
9	Nitrate [mg/l]	BDL(<1.0)	IS 3025 (Part 34) : 1988 RA 2019
10	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019
11	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2019
12	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2019
13	Zinc [mg/l]	0.13	IS 3025 (Part 49) : 1994 RA 2019
14	Alkalinity - T [mg/l]	280	IS 3025 (Part 23) : 1986 RA 2019
15	Suspended Solids [mg/l]	10	IS 3025 (Part 17) : 1984 RA 2017
16	Cobalt [mg/l]	BDL(<0.01)	APHA :2017 :3111- B
17	Mercury [mg/l]	BDL (<0.001)	IS 3025 (Part 48) : 1994 RA 2019
18	Cyanide [mg/l]	BDL (<0.01)	IS 3025 (Part 27) : 1986 RA 2019
19	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2019
20	Total Solids [mg/l]	1464	IS 3025 (part 15) : 1984 RA 2019

Notes :-

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Sunil Kumar
Senior Analyst


Purnan Mal Yogi
Authorized Signatory
(Report No: TTH/SKM/SA09/W-06)



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

TEST REPORT

Report No./ULR No. :	TC502523600000810	Date :	24-04-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	07-04-2023 12:17 to 08-04-2023 12:17
Point of Collection :	Bamania Kalan Village	Date of Receipt :	15-04-2023
Date of Test/Analysis :	15-04-2023 to 24-04-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	53.5	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	42.9	IS 9989	45

Notes :-

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Senior Analyst

Pursh Mal Yogi

Authorized Signatory

Rajesh Maheshwar
(Report No: TC502523600000810)



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

TEST REPORT

Report No./ULR No. :	TC502523600000811	Date :	24-04-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	07-04-2023 12:18 to 08-04-2023 12:18
Point of Collection :	Sindesar Khurd Village	Date of Receipt :	15-04-2023
Date of Test/Analysis :	15-04-2023 to 24-04-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	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)]	53.9	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	43.7	IS 9989	45

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: TC502523600000811)



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TEST REPORT

Report No./ULR No. :	TC502523600000812	Date :	24-04-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	07-04-2023 12:19 to 08-04-2023 12:19
Point of Collection :	Rajpura Village	Date of Receipt :	15-04-2023
Date of Test/Analysis :	15-04-2023 to 24-04-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	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)]	42.5	IS 9989	45

Notes :-

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Purnan Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523600000812)



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TEST REPORT

Report No./ULR No. :	TC502523600000813	Date :	24-04-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	07-04-2023 12:20 to 08-04-2023 12:20
Point of Collection :	Mine Area Boundary in NE Direction (Industrial Area)	Date of Receipt :	15-04-2023
Date of Test/Analysis :	15-04-2023 to 24-04-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	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)]	67.2	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	56.3	IS 9989	65

Notes :-

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Senior Analyst
Puran Mal Yogi

Authorized Signatory
Rajesh Maheshwar
(Report No: TC502523600000813)



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TEST REPORT

Report No./ULR No. :	TC502523600000814	Date :	24-04-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	07-04-2023 12:21 to 08-04-2023 12:21
Point of Collection :	Near Encline (Acquired Area)-Industrial Area	Date of Receipt :	15-04-2023
Date of Test/Analysis :	15-04-2023 to 24-04-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	66.5	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	54.3	IS 9989	65

Notes :-

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Senior Analyst
Purnan Mal Yogi

Authorized Signatory
Rajesh Mishra
(Report No: TC502523600000814)



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TEST REPORT

Report No./ULR No. :	TC502523600000815	Date :	24-04-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	07-04-2023 12:24 to 08-04-2023 12:24
Point of Collection :	Near Tailing Dam	Date of Receipt :	15-04-2023
Date of Test/Analysis :	15-04-2023 to 24-04-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	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)]	53.3	IS 9989	65

Notes :-

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Senior Analyst Mal Yogi

Authorized Signatory
(Report No. TC502523600000815)



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TEST REPORT

Report No./ULR No. :	TC502523600001151	Date :	02-06-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	17-05-2023 11:13 to 18-05-2023 11:13
Point of Collection :	Bamania Kalan Village	Date of Receipt :	24-05-2023
Date of Test/Analysis :	24-05-2023 to 02-06-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Sitaram Jangid
Unit's representative :	Mr Sunil Chouhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	52.3	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	43.2	IS 9989	45

Notes :-

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Senior Analyst

Puran Mal Yogi

Authorized Signatory
Rajesh Maheshwari
(Report No: TC502523600001151)



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TEST REPORT

Report No./ULR No. :	TC502523600001152	Date :	02-06-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	17-05-2023 11:17 to 18-05-2023 11:17
Point of Collection :	Sindesar Khurd Village	Date of Receipt :	24-05-2023
Date of Test/Analysis :	24-05-2023 to 02-06-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Sitaram Jangid
Unit's representative :	Mr Sunil Chouhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	53.6	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	43.8	IS 9989	45

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Mishra
Authorized Signatory
(Report No: TC502523600001152)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523600001153	Date :	02-06-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	17-05-2023 11:21 to 18-05-2023 11:21
Point of Collection :	Rajpura Village	Date of Receipt :	24-05-2023
Date of Test/Analysis :	24-05-2023 to 02-06-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Sitaram Jangid
Unit's representative :	Mr Sunil Chouhan	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)]	42.1	IS 9989	45

Notes :-

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Senior Analyst

Purani
Purani Mal Yogi

Authorized Signatory
Rajesh Manchewan
(Report No: TC502523600001153)



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TEST REPORT

Report No./ULR No. :	TC502523800001154	Date :	02-06-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	18-05-2023 11:22 to 19-05-2023 11:22
Point of Collection :	Mine Area Boundary in NE Direction (Industrial Area)	Date of Receipt :	24-05-2023
Date of Test/Analysis :	24-05-2023 to 02-06-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Sitaram Jangid
Unit's representative :	Mr Sunil Chouhan	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)]	67.5	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	56.2	IS 9989	65

Notes :-

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Pranav
Pranav Mal Yogi
Senior Analyst

Payal
Authorized Signatory
Payal Maheshwari
(Report No. TC502523800001154)



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

TEST REPORT

Report No./ULR No. :	TC502523600001155	Date :	02-06-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	18-05-2023 11:23 to 19-05-2023 11:23
Point of Collection :	Near Encline (Acquired Area)-Industrial Area	Date of Receipt :	24-05-2023
Date of Test/Analysis :	24-05-2023 to 02-06-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Sitaram Jangid
Unit's representative :	Mr Sunil Chouhan	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)]	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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Senior Analyst
Purni Mal Yogi

Authorized Signatory
(Report No: TC502523600001155)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523600001156	Date :	02-06-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	18-05-2023 11:24 to 19-05-2023 11:24
Point of Collection :	Near Tailing Dam	Date of Receipt :	24-05-2023
Date of Test/Analysis :	24-05-2023 to 02-06-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Sitaram Jangid
Unit's representative :	Mr Sunil Chouhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	65.9	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	54.7	IS 9989	65

Notes :-

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

Senior Analyst

Puran
Puran Mal Yogi

Authorized Signatory

Raj
Rajesh Kumar
(Report No: TC502523600001156)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523600001221	Date :	17-06-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	08-06-2023 16:59 to 09-06-2023 16:58
Point of Collection :	Bamania Kalan Village	Date of Receipt :	12-06-2023
Date of Test/Analysis :	12-06-2023 to 16-06-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	53.7	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	43.5	IS 9989	45

Notes :-

- # The 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: TC502523600001221)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523600001222	Date :	17-06-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	08-06-2023 17:00 to 09-06-2023 16:59
Point of Collection :	Sindesar Khurd Village	Date of Receipt :	12-06-2023
Date of Test/Analysis :	12-06-2023 to 16-06-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	52.6	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	42.4	IS 9989	45

Notes :-

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

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523600001222)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523600001223	Date :	17-06-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	08-06-2023 17:01 to 09-06-2023 17:00
Point of Collection :	Rajpura Village	Date of Receipt :	12-06-2023
Date of Test/Analysis :	12-06-2023 to 16-06-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	53.6	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	43.3	IS 9989	45

Notes :-

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

Rajesh Maheshwari
Authorized Signatory
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TEST REPORT

Report No./ULR No. :	TC502523600001224	Date :	17-06-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	09-06-2023 17:02 to 10-06-2023 17:02
Point of Collection :	Mine Area Boundary in NE Direction (Industrial Area)	Date of Receipt :	12-06-2023
Date of Test/Analysis :	12-06-2023 to 16-06-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	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)]	64.1	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	55.7	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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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Purnima Yogi
Senior Analyst

Rajesh Maheshwar
Authorized Signatory
(Report No: TC502523600001224)



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TEST REPORT

Report No./ULR No.:	TC502523600001225	Date :	17-06-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	09-06-2023 17:03 to 10-06-2023 17:03
Point of Collection :	Near Endline (Acquired Area)-Industrial Area	Date of Receipt :	12-06-2023
Date of Test/Analysis :	12-06-2023 to 16-06-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	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)]	67.7	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	58.5	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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Purni Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523600001225)



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TEST REPORT

Report No./ULR No. :	TC502523600001226	Date :	17-06-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	09-06-2023 17:04 to 10-06-2023 17:04
Point of Collection :	Near Tailing Dam	Date of Receipt :	12-06-2023
Date of Test/Analysis :	12-06-2023 to 16-06-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	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)]	62.9	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	53.7	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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P. Maheshwari
Puran Mahi Yogi
Senior Analyst

Rajesh Maheshwari
Rajesh Maheshwari
Authorized Signatory

(Report No: TC502523600001226)



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TEST REPORT

Report No./ULR No. :	23600001458	Date :	05-08-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	24-07-2023 11:21 to 25-07-2023 11:21
Point of Collection :	Bamania Kalan Village	Date of Receipt :	02-08-2023
Date of Test/Analysis :	02-08-2023 to 05-08-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Chouhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	49.5	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	40.5	IS 9989	45

Notes :-

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

Raj
Rajesh Maheshwari
Authorized Signatory
(Report No: 23600001458)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	23600001459	Date :	05-08-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	24-07-2023 11:23 to 25-07-2023 11:23
Point of Collection :	Sindesar Khurd Village	Date of Receipt :	02-08-2023
Date of Test/Analysis :	02-08-2023 to 05-08-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Chouhan	Condition of Sample :	Fit for testing

RESULTS

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

Notes :-

- # 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 Maneshwan
Authorized Signatory
(Report No: 23600001459)



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

TEST REPORT

Report No./ULR No. :	23600001460	Date :	05-08-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	24-07-2023 11:24 to 25-07-2023 11:24
Point of Collection :	Rajpura Village	Date of Receipt :	02-08-2023
Date of Test/Analysis :	02-08-2023 to 05-08-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Chouhan	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)]	53.2	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	42.6	IS 9989	45

Notes :-

- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.


Puran Maheshwari
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: 23600001460)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	23600001461	Date :	05-08-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	25-07-2023 11:25 to 26-08-2023 11:25
Point of Collection :	Mine Area Boundary in NE Direction (Industrial Area)	Date of Receipt :	02-08-2023
Date of Test/Analysis :	02-08-2023 to 05-08-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Chouhan	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)]	57.2	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	49.3	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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Ruraj Mal Yogi
Senior Analyst

Rajesh Maneshwar
Authorized Signatory
(Report No: 23600001461)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	23600001462	Date :	05-08-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	25-07-2023 11:28 to 26-07-2023 11:28
Point of Collection :	Near Encline (Acquired Area)-Industrial Area	Date of Receipt :	02-08-2023
Date of Test/Analysis :	02-08-2023 to 05-08-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Chouhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	65.4	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	54.3	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: 23600001462)



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

TEST REPORT

Report No./ULR No. :	23600001463	Date :	05-08-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	25-07-2023 11:32 to 26-07-2023 11:32
Point of Collection :	Near Tailing Dam	Date of Receipt :	02-08-2023
Date of Test/Analysis :	02-08-2023 to 05-08-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Chouhan	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)]	54.3	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: 23600001463)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No.:	23600001515	Date :	05-09-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / -	Date of Sample Collection/Monitoring :	26-08-2023 11:59 to 27-08-2023 11:59
Point of Collection :	Bamania Kalan Village	Date of Receipt :	29-08-2023
Date of Test/Analysis :	29-08-2023 to 05-09-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	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)]	41.6	IS 9989	45

Notes :-

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Puneo
Senior Analyst
Puneo

Raj
Authorized Signatory
(Report No: 23600001515)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	23600001516	Date :	05-09-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	26-08-2023 12:04 to 27-08-2023 12:04
Point of Collection :	Sindesar Khurd Village	Date of Receipt :	29-08-2023
Date of Test/Analysis :	29-08-2023 to 05-09-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	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)]	53.4	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	43.2	IS 9989	45

Notes :-

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

Puran Mal Yogi

Authorized Signatory
(Report No: 23600001516)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	23600001517	Date :	05-09-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	26-08-2023 12:06 to 27-08-2023 12:06
Point of Collection :	Rajpura Village	Date of Receipt :	29-08-2023
Date of Test/Analysis :	29-08-2023 to 04-09-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	53.8	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	43.6	IS 9989	45

Notes :-

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

Authorized Signatory
Rajesh Maheshwari
(Report No. 23600001517)



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TEST REPORT

Report No./ULR No. :	23600001518	Date :	05-09-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	26-08-2023 12:08 to 27-08-2023 12:08
Point of Collection :	Mine Area Boundary in NE Direction (Industrial Area)	Date of Receipt :	29-08-2023
Date of Test/Analysis :	29-08-2023 to 04-09-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	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)]	67.2	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	58.3	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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Senior Analyst
Mal Yogi

Authorized Signatory
Rajesh Maheshwari
(Report No: 23600001518)



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TEST REPORT

Report No./ULR No. :	23600001519	Date :	05-09-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	25-08-2023 12:10 to 26-08-2023 12:11
Point of Collection :	Near Encline (Acquired Area)-Industrial Area (25°00.118"N, 074°08.710"E)	Date of Receipt :	29-08-2023
Date of Test/Analysis :	29-08-2023 to 04-09-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	63.5	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	52.4	IS 9989	65

Notes :-

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Senior Analyst
Puran Mal Yogi

Authorized Signatory
(Report No: 23600001519)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	23600001520	Date :	05-09-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	25-08-2023 12:12 to 26-08-2023 12:12
Point of Collection :	Near Tailing Dam (24°57.495'N, 74°08.842'E)	Date of Receipt :	29-08-2023
Date of Test/Analysis :	29-08-2023 to 04-09-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Chouhan	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)]	55.5	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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Senior Analyst Praveen Mal Yogi


Authorized Signatory
Rajesh Maheshwari
(Report No: 23600001520)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	23600001631	Date :	04-10-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	15-09-2023 14:52 to 16-09-2023 14:53
Point of Collection :	Bamania Kalan Village	Date of Receipt :	25-09-2023
Date of Test/Analysis :	25-09-2023 to 03-10-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Sunil Chouhan	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)]	51.4	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	42.1	IS 9989	45

Notes :-

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


Sunil Kumar
Authorized Signatory
(Report No: 23600001631)



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TEST REPORT

Report No./ULR No. :	23600001632	Date :	04-10-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	15-09-2023 14:54 to 16-09-2023 14:54
Point of Collection :	Sindesar Khurd Village	Date of Receipt :	25-09-2023
Date of Test/Analysis :	25-09-2023 to 03-10-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Sunil Chouhan	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 :-

- # 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 Yogi
Senior Analyst

Sunil Kumar
Authorized Signatory
(Report No: 23600001632)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	23600001633	Date :	04-10-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	15-09-2023 14:56 to 16-09-2023 14:56
Point of Collection :	Rajpura Village	Date of Receipt :	25-09-2023
Date of Test/Analysis :	25-09-2023 to 03-10-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Sunil Chouhan	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)]	42.6	IS 9989	45

Notes :-

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


Sunil Kumar
Authorized Signatory
(Report No: 23600001633)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	23600001634	Date :	04-10-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	16-09-2023 14:59 to 17-09-2023 14:59
Point of Collection :	Mine Area Boundary in NE Direction (Industrial Area)	Date of Receipt :	25-09-2023
Date of Test/Analysis :	25-09-2023 to 03-10-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Sunil Chouhan	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)]	64.9	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	55.3	IS 9989	65

Notes :-

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Puran Mal Yogi
Senior Analyst

Sunil Kumar
Authorized Signatory
(Report No: 23600001634)



TEAM TEST HOUSE

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

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

RSPCB

ISO 9001:2015,

ISO 14001:2015,

ISO 45001:2018 (OH&S)

JDA/UDH

Office : E-65, Chitrangan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : +91 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. :	23600001635	Date :	04-10-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	16-09-2023 15:08 to 17-09-2023 15:09
Point of Collection :	Near Encline (Acquired Area)-Industrial Area	Date of Receipt :	25-09-2023
Date of Test/Analysis :	25-09-2023 to 03-10-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Sunil Chouhan	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)]	67.9	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	59.0	IS 9989	65

Notes :-

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

Puran Mat Yogi
Senior Analyst

Sunil Kumar
Authorized Signatory
(Report No: 23600001635)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	23600001636	Date :	04-10-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	16-09-2023 15:20 to 17-09-2023 15:20
Point of Collection :	Near Tailing Dam	Date of Receipt :	25-09-2023
Date of Test/Analysis :	25-09-2023 to 03-10-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Sunil Chouhan	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)]	55.9	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	47.5	IS 9989	65

Notes :-

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Puran Mal Yogi
Senior Analyst

Sunil Kumar
Authorized Signatory
(Report No: 23600001636)

WATER AUGMENTATION PROJECT AT RDC





Before
Rejuvenation

After
Rejuvenation



HZC's efforts to address the issue of Water paucity same and to take a step ahead towards making Water Positive villages in nearby operational areas of RDC, we propose to take up Water Augmentation project at RDC. The proposed work taken in a project manner for will help in making villages water self-sufficient

MAKHANPURIYA WATER AUGMENTATION PROJECT






Pre-monsoon picture

Post-monsoon picture

Pond deepening work at Makhanpuriya (Kabra Panchayat). Will support in recharging of open wells/tube wells in the area and cater to water requirements of 420+ population and 450+ livestock

ANJANA WATER AUGMENTATION PROJECT



Before pond deepening

Pre-monsoon picture

Post-monsoon picture

Pond deepening work at Anjana (Gawardi Panchayat). Will support in recharging of open wells/tube wells in the area and cater to water requirements of 1700+ population and 1100+ livestock

Q1 – RDC CSR HIGHLIGHTS FY-2024

1. **Under National Fire Safety week** – DSC Safety team took a session on prevention of fire at households along with training on CPR was given **to 45+ community members** at Kotdi village.



2. **The Animal Care Organisation – TACO turns one.** In line with HZL Chairperson Ms. Priya Hebbar's vision – RDC Celebrated TACO Foundation day on 21st April 2023. **Water bowl initiative** > 20 water bowls were installed as an effort towards mitigating the impact of extreme heat for birds and some stray animals in and around our community.
 - **Water bowl initiative** > As an effort towards mitigating the impact of extreme heat especially during peak summer season and to extend this support to some birds and some stray animals in and around our community
 - Water bowl initiative >> at 4 villages of RDC with active participation from esteemed Stakeholders and PRI members.
 - A total of **20+ water bowls** placed and installed at some Nandghars, Panchayat Bhawan, Govt schools and Plantation sites.

World Environment day 5th June observed across RDC :



- 140+ Shiksha Sambal summer camp students & community members visit to Miyawaki plantation site.
- Plantation at VTC and Vedanta Stadium with RDC EXCO Members, students, and community members.
- Awareness session with students by CBEO Railmagra.
- Oath taken by community members on minimum usage of single use plastic.



3. **Community Assets creation** : for Q1 10 infrastructure works completed in nearby operational villages

Animal Shed Rajpura



Community Shed Anjana



CC road Anjana



Bitumen Road Naya Dariba



Bitumen Road



4. **3rd batch (30 women) Livelihood Entrepreneurship Development Programme –** LEDP successfully completed in village Dhaneriyagarh . This was a Soft Toys Training Program with support from NABARD. (previously 2 batches completed at villages Railmagra and Kotdi)



5. **CEO Anil Agarwal Foundation, Dr Bhaskar Chatterjee visited** Nandghars, Zinc Kaushal Kendra (inaugurated the Microfinance Executive batch) and Sunariya Kheda stitching center.



6. Volunteering Highlights

- a total of 41 volunteers took sessions across various CSR projects ; total manhours 981 manhours
- Engagement sessions : 10



7. **Unchi Udaan examination** done for 50+ students at RDC for onboarding batch 8 students (Initiative to nurture and groom young, promising talent from the economically backward families to get admission into IITs and other reputed engineering institutions)



8. **Mehangai Rahat Camps across projects**

- Mehangai Rahat camp done in 4 operational villages FTM of April > State Govt's initiative to help people register with various Govt schemes
- Sakhi team as well FTM of May and in line with State Government's initiative to link people with various govt welfare schemes, Mehangai Rahat Camp organised in villages Rajpura and Railmagra
- 310 Women Mobilized
- 110 community members registered themselves with Govt. Schemes
- 60 Women mobilized & supported through Sakhi Seva Kendra



9. **Zinc Kaushal**

- In collaboration with with Ashok Leyland and Aster Foundation Zinc Kaushal organised a health camp benefitting 150+ community members and trainees



- For the 1st Quarter a total of 50 trainees have been successfully placed in renowned organisations.
- DSC Security team took self-defence training session. The training was aimed at empowering youths to protect themselves from any kind of physical danger or attack: a total of 71 trainees participated.



10. RDC successfully concluded Shiksha Sambal's month-long summer camp concluded with 200+ students. Camp opening ceremony inaugurated on positive note by IBU-CEO RDC Sh. Vinod. RDC successfully concludes month long Shiksha Sambal

Summer Camp at 2 schools DAV, Dariba and Sindesar Kalan Govt. Schools with 200+ students participating in this learning camp.



Q2 Highlights RDC – FY 2024

Khad Bamaniya Girls toilet Inauguration

Khad Bamaniya is among the operational villages of RDC and as a step ahead towards Swatch Bharat Abhiyan and to free village from open defecation, we constructed a girls Toilet at Govt school Khad Bamaniya and the same will be benefitting around **250 girls from the Govt. school**

Chief Guests: Dept CEO-IBU RDC, Sarpanch Khad Bamaniyan, School Principal Khad Bamaniyan and other members from the school management committee.



Batch 8 of Unchi Udaan onboarded

3 students from RDC have been selected for the programme and they got an opportunity to interact with *Director and Dept Director DGMS along with Senior management SKM > Dept CEO IBU RDC, Engineering Head SK etc and received guidance from all the seniors.*



Zinc Kaushal

- For the 2nd Quarter, a total of **44 trainees have been successfully placed** in renowned organizations.
- **World Youth Skills Day 15th July**, observed at Zinc Kaushal : Blood Donation Camp organized with a remarkable donation of 67 units of blood. Other activities like motivational movie screening and craft making activities also done



Ringus Admission – Vedanta PG Girls college

At RDC 5 girls from nearby operational villages of RDC will be pursuing graduation and one girl for Post Graduation as well. An induction session was done with the girls and their parents/guardians



Community Connect at Village Raghunathpura

Senior management RDC : SK Engineering Head, CSO RDC, SK Security Team, Sarpanch and Upsarpanch Raghunathpura, community members and had a discussion on various CSR initiatives being taken across RDC. 30+ community members actively participated and senior

management especially encouraged them to prioritize the education of the youth who are to become the pillars of our community



Sakhi – ME Stall at set up at Nathdwara Craft mela for 3 days:

Various range of products manufactured by our Sakhi women were put at display at the Exhibition. HZL CEO visited the exhibition along with Dist. Collector Udaipur & felicitated Sakhi team member.



Other highlights: 1000 Saplings distributed and plantation done in our nearby 10 operational villages FTM of July 2023.

HIGHLIGHT OF August – SAKHI RAKHI UNBOXING AT RDC

*RDC PARIVAR steps forward on Raksha Bandhan to celebrate the spirit of SAKHI by unboxing the handmade Sakhi Rakhis by taking the **#PledgeofSisterhood**. #Heartswithfingers is an exclusive artisan-based platform committed to bringing you the finest handcrafted treasures from all over India. Every time you buy from HwF, you're directly supporting a budding micro-enterprise on its journey towards sustainability.*



Sakhi- Microenterprises stall set up at RDC promoting all handmade products made by Sakhi Women > Display of both home grown brands Upaya and Daichi. Total sale of Rs. 21,000+



Under Sakhi World Breastfeeding week campaign at 3 villages FTM of August – Sarvariya Khedi, Sindesar Kalan and Railmagra with 120+ women to raise awareness on importance on breastfeeding



Independence Day – 15th August Highlights

CSR Community members at RDC step forward on 76th Independence Day and took an oath on avoiding Single usage plastics. 3800+ Govt school students and teachers' students took an oath. CSR Field Coordinators felicitated by RDC Senior Management for their exemplary work on ground.



RDC conferred with 27th Bhamashah award

RDC bestowed with Shiksha Vibhushan Award for its exemplary work in the field of Education. This is a state level award, awarded by Govt. of Rajasthan and is Highest Education Award by the state.



Organ Donation : Awareness sessions organized in partnership with Organ India Team

across RDC at Zinc Kaushal Kendra, 3 Shiksha Sambal school (Kabra, Khad Bamaniya and Rajpura), with Sakhi women, with Samadhan farmers. **A total of 450+ beneficiaries were covered through these sessions.**

Aim : delivering a comprehensive and extremely informative presentation on organ donation, which included

- the various aspects of the cause like - What is organ donation? Who can donate organs? Importance of organ donation?
- Myths and Facts around the subject and how to pledge for organ and tissue donation and so on.
- At the end of the session, a short film on organ donation was played wherever possible, a booklet, comic book and FAQs on organ donation were distributed among students.



Reading mela was organized at Rajpura and Gawardi government school for students of class 6th to 8th standard with 122 students. Reading Mela supports students in strengthening their reading and writing skills, designed to work on their creativity, sensitivity, decision-making and self-expression, etc., and are based on the subject matter of language, science, mathematics, and social sciences, which further support their academics.



Rajpura Dariba Agro Farmer Producer company conducts its 1st Annual General Meeting.

- Turnover for FPO at RDC was around 46 lacs + with participation observed from more than 136 farmers.
- New resolutions were taken by Board members i.e. to add 3 new female BODs and 1 male BOD for the company as an effort towards making it an inclusive Board.



Volunteering Highlights:

- At RDC for the 2nd Quarter, a total of 31 volunteers actively participated in CSR activities, contributing a total of 64 manhours.



HINDUSTAN ZINC
Zinc & Silver of India

REGISTERED AD

HZL/SKM/ENV/2023/EC Comp/101

May 22nd, 2023

To,

✓ The Deputy Director(s) / Scientist -C,
Ministry of Environment, Forest and Climate Change,
Integrated Regional Office, Jaipur,
A-209 & 218, Aranya Bhawan, Mahatma Gandhi Road,
Jhalana Institutional Area, Jaipur (Raj.) – 304002.

Sub.: Half yearly EC compliance report of Sindesar Khurd Mine for the period of October-2022 to March 2023.

Ref.: Environmental Clearance vide no. J-11015/7/2017-IA.II (M) dated 31.05.2018

Sir,

With reference to aforesaid subject and cited references, it is to inform that we are herewith submitting six monthly Compliance report for the conditions stipulated in the Environment Clearances of Sindesar Khurd Mine for the period from **October-2022 to March 2023**.

The copy of above compliance report is also being sent in soft format through email to (roc.lko-mef@gov.in; m_env@rediffmail.com) for your kind perusal. Also copy of Sindesar Khurd Mine EC Compliance has been uploaded on company website <https://www.hzindia.com/sustainability/environment-compliance/>

We trust that the measures taken towards environmental safeguards comply with the stipulated environmental conditions. We look forward to your further guidance which shall certainly help us in our endeavor for further improve upon our Environmental Management Practices.

Hope the above are in line with statutory requirements.

Thanking you,

Yours faithfully,

Anshul Kumar Khandelwal
Unit Head & Authorized Signatory
Sindesar Khurd Mines, HZL

Copy to:

1. In-charge, (Zonal Office),
Central Pollution Control Board,
Parivesh Bhawan, Paryavaran Parisar,
E-5, Arera Colony, Bhopal (MP)-462016.
2. The Member Secretary,
Rajasthan State Pollution Control Board,
4th, Institutional Area, Jhalana Doongari,
Jaipur (Raj.) – 302004
3. Regional Officer,
Rajasthan State Pollution Control Board,
Old Building of District Excise Office,
Kalalwati, Rajnagar,
Rajsamand (Raj.)-313324.

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जी विगत
क-2 पट
गुप्त ताल
प्राप्तिका
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दिनांक
त्य अदेव।