

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.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.hzlindia.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.

Six Monthly Compliance Report
of
Environmental Clearance
(Vide Letter No.: J-11015/7/2017-IA.II(M) dated 31.05.2018)

for



Sindesar Khurd Mine
(of M/s Hindustan Zinc Ltd.)

For the period from
(October'2022 to March'2023)

May 2023

Compliance Report of Environmental Clearance

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: October 2022 to March 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.

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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 report on slope and stability monitoring should be sent to MoEF&CC and its Regional office every six-months.	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. 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.

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11	<p>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 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.</p>	<p>Blast design is being done as per recommendations of CIMFR keeping public infrastructure in view. Due 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.</p>
12	<p>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.</p>	<p>Being complied,</p> <p>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.</p> <p>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.</p>
13	<p>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.</p>	<p>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.</p>

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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 infrastructures will be provided. The PP has confirmed that equal land will be given as a part of displacement.	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 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 that 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.	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 1 st EC compliance report in 2018. 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 26 th May 2020 which after responding initial queries, has been forwarded to PCCFWL, Jaipur on 27.07.2021. Administrative fee of Rs. 40 lac has also been submitted into RPACS account and same is under process of approval for further implementation. Copy of forwarding letter is enclosed as Annexure- VII.
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.	Action plan has been made. Awareness programs conducted. In addition to this, High capacity (1500 Liter/Hr) community ROs have been installed at Kothdi, Mehanduriya, Kabra, Gawardi, Rajpura and Railmagra villages.

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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.	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. However, NOC for 121 m ³ /day of inflow of water due to mining operation has been obtained from CGWB. Renewal for 121 m ³ /day is applied vide application no. 21-4/308/RJ/MIN/2008 dated 25.08.2022. Also NOC for envisaged additional inflow of 110.15 m ³ /day during proposed expansion of mine is also obtained. Copy enclosed as Annexure – X .
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 .

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8	<p>The critical parameters as per the Notification 2009 such as PM10, PM2.5, NOx and SOx etc. in the ambient air within the impact zone, peak particle velocity at 300m distance or within the nearest habitation, whichever is closer shall be monitored periodically. Further, quality of discharged water shall also be monitored [(TDS, DO, PH and Total Suspended Solids (TSS))]. The monitored data shall be uploaded on the website of the company as well as displayed on a display board at the project site at a suitable location near the main gate of the Company in public domain. The circular No. 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.</p>	<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 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.</p>
9	<p>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.</p>	<p>Being Complied,</p> <p>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.</p> <p>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.</p>
10	<p>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.</p>	<p>Being Complied,</p> <p>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.</p>

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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 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.	Being Complied, No natural water bodies or streams flowing in and around village is 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.

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14	<p>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.</p>	<p>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.</p> <p>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 located in closed shed to minimise the impact of noise in surrounding.</p>
15	<p>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.</p>	<p>Being Complied,</p> <p>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 "<i>Dustron</i>" 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.</p>
16	<p>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.</p>	<p>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.</p>
17	<p>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.</p>	<p>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. we have done pond deepening work for Makhanpuriya (Kabra Panchayat) during reporting period, Copy of photo attached as Annex - XV.</p>

Compliance Report of Environmental Clearance

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 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.	Noted and shall be complied, At present waste dump is in active stage. On maturity, inactive waste 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.
20	The top soil, if any, shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation. The over burden (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only and it should not be kept active for a long period of time. The maximum height of the dumps shall not exceed 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.	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.

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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>
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 104850 nos of new plants have been planted within mine lease to cover more than 33% area under plantation. During year (2021-22), 24000 and 4850 in this year (2022-23) new plants have been planted and 480 Kg seeds have been spread within lease area and another 100 plants have been planted along roadside outside lease. 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), Bauhnia (Bauhnia 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>

Compliance Report of Environmental Clearance

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 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. Administrative fee of Rs. 40 lac has also been submitted into RPACS account and same is under process of approval for further implementation. Copy of forwarding letter is enclosed as Annexure- VII.</p>

Compliance Report of Environmental Clearance

26	As per the Company Act, the CSR cost should be 2 % of average net profit of last three years. Hence CSR expenses should be as per the Company Act/Rule for the Socio Economic Development of the 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.	Being Complied, 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 verified in defined frequency by agency appointed by corporate office. 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.
27	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.	Noted and being complied with.
28	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.	Being Complied, 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 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.

Compliance Report of Environmental Clearance

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/-
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.
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 24.11.2022 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.

Compliance Report of Environmental Clearance

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
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.

कार्यालय उप वन संरक्षक, राजसमन्द

Sadhna Sikhar Road, Rajsamand Phone & Fax No. 02952-220096 Email- dcf.rjsmnd.forest@rajasthan.gov.in

क्रमांक: पत्रा () सर्वे/उपसं/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



TEAM TEST HOUSE

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

Annexure II



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522400003044	Date :	21-10-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	11-10-2022
Point of Collection :	Barnania Kalan Village (Residential Area) (25°02.314"N, 074°09.309"E)	Date of Receipt :	12-10-2022
Date of Test/Analysis :	12-10-2022 to 21-10-2022	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]	13.64	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	150.34	IS 5182 (Part 4) : 1999 RA 2019	-
4	Particulate Matter (PM2.5) [microgram/m3]	33.7	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	5.31	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	60.41	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.

Puran
Puran Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwan
Authorized Signatory

(Report No: TC502522400003044)



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TEST REPORT

Report No./ULR No. :	TC502522400003045	Date :	21-10-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	11-10-2022
Point of Collection :	Sindesar Khurd Village (Residential Area) (25°00.311"N,074°08.372"E)	Date of Receipt :	12-10-2022
Date of Test/Analysis :	12-10-2022 to 21-10-2022	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]	13.56	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	161.91	IS 5182 (Part 4) : 1999 RA 2019	-
4	Particulate Matter (PM2.5) [microgram/m3]	33.69	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	5.04	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	71.27	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Purni Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522400003045)



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TEST REPORT

Report No./ULR No. :	TC502522400003046	Date :	21-10-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	11-10-2022
Point of Collection :	Rajpura Village, Sindesar Khurd Mine (Residential Area) (24°58.331"N, 074°07.746"E)	Date of Receipt :	12-10-2022
Date of Test/Analysis :	12-10-2022 to 21-10-2022	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]	13.79	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	172.22	IS 5182 (Part 4) : 1999 RA 2019	-
4	Particulate Matter (PM2.5) [microgram/m3]	41.04	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	5.7	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	65.76	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Purni Mal Yogi
Senior Analyst

Rajesh Maneshwan
Authorized Signatory
(Report No: TC502522400003046)



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TEST REPORT

Report No./ULR No. :	TC502522400003047	Date :	21-10-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Dist. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	10-10-2022
Point of Collection :	Mine Area Boundary in NE Direction (Industrial Area) (25°00.381"N, 074°08.804"E)	Date of Receipt :	12-10-2022
Date of Test/Analysis :	12-10-2022 to 21-10-2022	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]	12.01	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	128.75	IS 5182 (Part 4) : 1999 RA 2019	-
4	Particulate Matter (PM2.5) [microgram/m3]	33.59	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	4.82	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	62.62	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst

Rajesh Maheshwari
Authorized Signatory

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TEST REPORT

Report No./ULR No. :	TC502522400003048	Date :	21-10-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	10-10-2022
Point of Collection :	Near Endline (Acquired Area)-Industrial Area (25°00.118"N, 074°08.710"E)	Date of Receipt :	12-10-2022
Date of Test/Analysis :	12-10-2022 to 21-10-2022	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]	11.38	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	142.44	IS 5182 (Part 4) : 1999 RA 2019	-
4	Particulate Matter (PM2.5) [microgram/m3]	32.93	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	4.98	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	75.79	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Pulraj
Pulraj Mai Yogi

Senior Analyst

Rajesh
Rajesh Maheshwari

Authorized Signatory

(Report No: TC502522400003048)



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TEST REPORT

Report No./ULR No. :	TC502522400003049	Date :	21-10-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	10-10-2022
Point of Collection :	Near Tailing Dam (24°57.495'N, 74°08.842'E)	Date of Receipt :	12-10-2022
Date of Test/Analysis :	12-10-2022 to 21-10-2022	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]	270	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	11.72	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	128.61	IS 5182 (Part 4) : 1999 RA 2019	-
4	Particulate Matter (PM2.5) [microgram/m3]	27.84	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	5.5	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	59.98	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maneshwan
Authorized Signatory

(Report No: TC502522400003049)



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

TEST REPORT

Report No./ULR No. :	TC502522400003458	Date :	02-12-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	15-11-2022
Point of Collection :	Barnania Kalan Village (Residential Area) (25°02.314"N, 074°09.309"E)	Date of Receipt :	23-11-2022
Date of Test/Analysis :	23-11-2022 to 02-12-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Barwari 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]	310	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	12.66	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	194.11	IS 5182 (Part 4) : 1999 RA 2019	-
4	Particulate Matter (PM2.5) [microgram/m3]	39.06	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	4.37	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	70.07	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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- # This report is not to be reproduced wholly or in part and can not be used evidence in the court of law and should not be used in any advertising media without our special permission in writing.
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Sunil Kumar
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522400003458)



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TEST REPORT

Report No./ULR No. :	TC502522400003459	Date :	02-12-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	15-11-2022
Point of Collection :	Sindesar Khurd Village (Residential Area) (25°00.311'N, 074°08.372'E)	Date of Receipt :	23-11-2022
Date of Test/Analysis :	23-11-2022 to 02-12-2022	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]	290	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	11.01	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	150.74	IS 5182 (Part 4) : 1999 RA 2019	-
4	Particulate Matter (PM2.5) [microgram/m3]	24.99	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	3	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	62.16	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes >

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Sunil Kumar

Authorized Signatory
Rajesh Maheshwari
(Report No: TC502522400003459)



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TEST REPORT

Report No./ULR No. :	TC502522400003460	Date :	02-12-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Darba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	15-11-2022
Point of Collection :	Rajpura Village, Sindesar Khurd Mine (Residential Area) (24°58.331"N, 074°07.746"E)	Date of Receipt :	23-11-2022
Date of Test/Analysis :	23-11-2022 to 02-12-2022	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]	12.79	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	144.62	IS 5182 (Part 4) : 1999 RA 2019	-
4	Particulate Matter (PM2.5) [microgram/m3]	27.57	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	4.33	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	58.42	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes ->

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Sunil Kumar


Authorized Signatory
Rajesh Kumar
(Report No: TC502522400003460)



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TEST REPORT

Report No./ULR No. :	TC502522400003461	Date :	02-12-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	16-11-2022
Point of Collection :	Mine Area Boundary in NE Direction (Industrial Area) (25°00.381'N, 074°05.804'E)	Date of Receipt :	23-11-2022
Date of Test/Analysis :	23-11-2022 to 02-12-2022	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]	350	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	12.69	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	204.29	IS 5182 (Part 4) : 1999 RA 2019	-
4	Particulate Matter (PM2.5) [microgram/m3]	34.09	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	3.51	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	65.62	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst
Sunil Kumar

Authorized Signatory
(Report No: TC502522400003461)



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TEST REPORT

Report No./ULR No. :	TC502522400003462	Date :	02-12-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	16-11-2022
Point of Collection :	Near Encline (Acquired Area)-Industrial Area (25°00.118"N, 074°08.710"E)	Date of Receipt :	23-11-2022
Date of Test/Analysis :	23-11-2022 to 02-12-2022	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]	11.91	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	238.54	IS 5182 (Part 4) : 1999 RA 2019	-
4	Particulate Matter (PM2.5) [microgram/m3]	42.21	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	3.56	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	73.71	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes >

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Senior Analyst
Sunil Kumar

Authorized Signatory
(Report No: TC502522400003462)



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TEST REPORT

Report No./ULR No. :	TC502522400003463	Date :	02-12-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	16-11-2022
Point of Collection :	Near Tailling Dam (24°57.495'N, 74°08.842'E)	Date of Receipt :	23-11-2022
Date of Test/Analysis :	23-11-2022 to 02-12-2022	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]	11.32	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	137.23	IS 5182 (Part 4) : 1999 RA 2019	-
4	Particulate Matter (PM2.5) [microgram/m3]	28.07	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	3.81	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	66.74	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Sunil Kumar

Authorized Signatory
Rakesh Mareshwan
(Report No. TC502522400003463)



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TEST REPORT

Report No./ULR No. :	TC502522400003797	Date :	31-12-2022
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 / -	Date of Sample Collection/Monitoring :	19-12-2022
Point of Collection :	Bamania Kalan Village (Residential Area) (25°02.314"N, 074°09.309"E)	Date of Receipt :	27-12-2022
Date of Test/Analysis :	27-12-2022 to 31-12-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra 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]	380	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	13.08	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	151.71	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	28.78	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	5.02	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	70.15	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes >

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522400003797)



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TEST REPORT

Report No./ULR No. :	TC502522400003798	Date :	31-12-2022
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 / -	Date of Sample Collection/Monitoring :	19-12-2022
Point of Collection :	Sindesar Khurd Village (Residential Area) (25°00.311"N, 074°08.372"E)	Date of Receipt :	27-12-2022
Date of Test/Analysis :	27-12-2022 to 31-12-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krushna 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]	13.35	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	176.96	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	40.08	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	6.67	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	73.64	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Purnan Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: TC502522400003798)



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TEST REPORT

Report No./JLR No. :	TC502522400003799	Date :	31-12-2022
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 / -	Date of Sample Collection/Monitoring :	19-12-2022
Point of Collection :	Rajpura Village, Sindesar Khurd Mine (Residential Area) (24°58.331"N, 074°07.746"E)	Date of Receipt :	27-12-2022
Date of Test/Analysis :	27-12-2022 to 31-12-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krushna 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]	13.86	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	175.65	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	29.49	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	3.06	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	78.34	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maneshwar
Authorized Signatory
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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522400003800	Date :	31-12-2022
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 / -	Date of Sample Collection/Monitoring :	20-12-2022
Point of Collection :	Mine Area Boundary in NE Direction (Industrial Area) (25°00.381"N, 074°08.804"E)	Date of Receipt :	27-12-2022
Date of Test/Analysis :	27-12-2022 to 31-12-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krushna 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]	13.47	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	170.84	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	37.97	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]	73.5	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Puran
Puran Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory

(Report No: TC502522400003800)



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ISO 45001:2018 (OH&S)

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TEST REPORT

Report No./ULR No. :	TC502522400003801	Date :	31-12-2022
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 / -	Date of Sample Collection/Monitoring :	20-12-2022
Point of Collection :	Near Encline (Acquired Area)-Industrial Area (25°00.118"N, 074°08.710"E)	Date of Receipt :	27-12-2022
Date of Test/Analysis :	27-12-2022 to 31-12-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashna 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]	14.24	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	153.28	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	36.8	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	5.85	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	70.49	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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TEST REPORT

Report No./ULR No. :	TC502522400003802	Date :	31-12-2022
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 / -	Date of Sample Collection/Monitoring :	20-12-2022
Point of Collection :	Near Tailing Dam (24°57.495'N, 74°08.842'E)	Date of Receipt :	27-12-2022
Date of Test/Analysis :	27-12-2022 to 31-12-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra 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]	410	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	13.07	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	169.95	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	35.46	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	5.21	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	82.14	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Purni Mal Yogi
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TEST REPORT

Report No./ULR No. :	TC502523400000086	Date :	30-01-2023
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 :	17-01-2023 11:44 to 16-01-2023 11:44
Point of Collection :	Barnania Kalan Village (Residential Area) (25°02.314"N, 074°09.309"E)	Date of Receipt :	20-01-2023
Date of Test/Analysis :	20-01-2023 to 30-01-2023	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]	13.3	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	170.74	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	31.21	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]	74.01	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Puran
Puran Mal Yogi
Senior Analyst

Rajesh
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TEST REPORT

Report No./ULR No. :	TC502523400000087	Date :	30-01-2023
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 :	17-01-2023 11:45 to 18-01-2023 11:45
Point of Collection :	Sindesar Khurd Village (Residential Area) (25°00.311"N, 074°08.372"E)	Date of Receipt :	20-01-2023
Date of Test/Analysis :	20-01-2023 to 30-01-2023	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]	13.26	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	161.67	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	26.71	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	5.22	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	73.9	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Rajesh Maneshwar
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TEST REPORT

Report No./ULR No. :	TC502523400000088	Date :	30-01-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsemand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	17-01-2023 11:46 to 16-01-2023 11:46
Point of Collection :	Rajpura Village, Sindesar Khurd Mine (Residential Area) (24°58.331"N, 074°07.746"E)	Date of Receipt :	20-01-2023
Date of Test/Analysis :	20-01-2023 to 30-01-2023	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]	12.85	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	144.96	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	27.34	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	5.17	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	77.83	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Rajesh Maheshwan
Rajesh Maheshwan
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TEST REPORT

Report No./ULR No. :	TC502523400000089	Date :	30-01-2023
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 :	16-01-2023 11:46 to 15-01-2023 11:46
Point of Collection :	Mine Area Boundary in NE Direction (Industrial Area) (25°00.381"N, 074°08.804"E)	Date of Receipt :	20-01-2023
Date of Test/Analysis :	20-01-2023 to 30-01-2023	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]	12.77	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	166.38	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]	4.85	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	73.48	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Rajesh Maheshwan
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TEST REPORT

Report No./ULR No. :	TC502523400000090	Date :	30-01-2023
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 :	16-01-2023 11:47 to 15-01-2023 11:47
Point of Collection :	Near Endline (Acquired Area)-Industrial Area (25°00.118'N, 074°08.710'E)	Date of Receipt :	20-01-2023
Date of Test/Analysis :	20-01-2023 to 30-01-2023	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]	12.84	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	143.77	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	28.5	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	5	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	82.33	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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TEST REPORT

Report No./ULR No. :	TC502523400000091	Date :	30-01-2023
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 :	17-01-2023 11:48 to 18-01-2023 11:48
Point of Collection :	Near Tailing Dam (24°57.495'N, 74°08.842'E)	Date of Receipt :	20-01-2023
Date of Test/Analysis :	20-01-2023 to 30-01-2023	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]	12.81	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	155.87	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	29.16	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	4.94	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	78.58	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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TEST REPORT

Report No./ULR No. :	TC502523400000397	Date :	09-03-2023
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 :	24-02-2023 12:30 to 25-02-2023 12:31
Point of Collection :	Bamania Kalan Village (Residential Area) (25°02.314"N, 074°09.309"E)	Date of Receipt :	28-02-2023
Date of Test/Analysis :	28-02-2023 to 09-03-2023	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]	14.48	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	167.65	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	35.35	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	4.61	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	70.45	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst

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(Report No: TC502523400000397)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523400000398	Date :	09-03-2023
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 :	24-02-2023 12:31 to 25-02-2023 12:31
Point of Collection :	Sindesar Khurd Village (Residential Area) (25°00.311"N,074°08.372"E)	Date of Receipt :	28-02-2023
Date of Test/Analysis :	28-02-2023 to 09-03-2023	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]	14	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m ³]	150.83	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM _{2.5}) [microgram/m ³]	28.41	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m ³]	5.97	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM ₁₀) [microgram/m ³]	83.12	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst

Authorized Signatory

(Report No: TC502523400000398)



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TEST REPORT

Report No./ULR No. :	TC502523400000399	Date :	09-03-2023
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 :	23-02-2023 12:32 to 24-02-2023 12:32
Point of Collection :	Rajpura Village, Sindesar Khurd Mine (Residential Area) (24°58.331"N, 074°07.746"E)	Date of Receipt :	28-02-2023
Date of Test/Analysis :	28-02-2023 to 09-03-2023	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]	270	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	12.66	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	139.32	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	36.88	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	5.87	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	75.69	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.

[Signature]

Senior Analyst

[Signature]

Authorized Signatory
(Report No: TC502523400000399)



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TEST REPORT

Report No./ULR No. :	TC502523400000400	Date :	09-03-2023
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 :	23-02-2023 12:34 to 24-02-2023 12:34
Point of Collection :	Mine Area Boundary in NE Direction (Industrial Area) (25°00.381"N, 074°08.804"E)	Date of Receipt :	28-02-2023
Date of Test/Analysis :	28-02-2023 to 09-03-2023	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]	360	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	12.68	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	141.19	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	30.52	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]	70.53	IS 5182 (Part 23)-2006 RA 2017	100.00

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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[Signature]

Senior Analyst

[Signature]

Authorized Signatory

(Report No: TC502523400000400)



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TEST REPORT

Report No./ULR No. :	TC502523400000401	Date :	09-03-2023
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 :	23-02-2023 12:34 to 24-02-2023 12:35
Point of Collection :	Near Encline (Acquired Area)-Industrial Area (25°00.118"N, 074°08.710"E)	Date of Receipt :	28-02-2023
Date of Test/Analysis :	28-02-2023 to 09-03-2023	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]	320	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	12.78	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	142.09	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	25.62	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	5.77	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	71.44	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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[Signature]

Senior Analyst

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Authorized Signatory
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TEST REPORT

Report No./ULR No. :	TC502523400000402	Date :	09-03-2023
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 :	23-02-2023 12:36 to 24-02-2023 12:36
Point of Collection :	Near Tailing Dam (24°57.495'N, 74°08.842'E)	Date of Receipt :	28-02-2023
Date of Test/Analysis :	28-02-2023 to 09-03-2023	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]	350	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]	134.34	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	36.32	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]	74.76	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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

Authorized Signatory

(Report No: TC502523400000402)



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TEST REPORT

Report No./ULR No. :	TC502523400000768	Date :	03-04-2023
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 :	20-03-2023 16:16 to 21-03-2023 16:16
Point of Collection :	Bamania Kalan Village (Residential Area) (25°02.314"N, 074°09.309"E)	Date of Receipt :	24-03-2023
Date of Test/Analysis :	24-03-2023 to 03-04-2023	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]	12.79	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	120.47	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	28.61	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	5.42	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	63.63	IS 5182 (Part 23)-2006 RA 2017	100.00

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
Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
Rajesh Maheshwan
Authorized Signatory
(Report No: TC502523400000768)



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TEST REPORT

Report No./ULR No. :	TC502523400000769	Date :	03-04-2023
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 :	20-03-2023 16:17 to 21-03-2023 16:17
Point of Collection :	Sindesar Khurd Village (Residential Area) (25°00.311"N, 074°08.372"E)	Date of Receipt :	24-03-2023
Date of Test/Analysis :	24-03-2023 to 03-04-2023	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]	230	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	11.91	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	130.85	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	28.66	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	5.86	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	66.04	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: TC502523400000769)



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TEST REPORT

Report No./ULR No. :	TC502523400000770	Date :	03-04-2023
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 :	21-03-2023 16:17 to 22-03-2023 16:18
Point of Collection :	Rajpura Village, Sindesar Khurd Mine (Residential Area) (24°58.331"N, 074°07.746"E)	Date of Receipt :	24-03-2023
Date of Test/Analysis :	24-03-2023 to 03-04-2023	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]	280	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	11.71	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	123.72	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	24.27	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	3.76	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	70.6	IS 5182 (Part 23)-2006 RA 2017	100.00

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: TC502523400000770)



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TEST REPORT

Report No./ULR No. :	TC502523400000771	Date :	03-04-2023
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 :	21-03-2023 16:18 to 22-03-2023 16:18
Point of Collection :	Mine Area Boundary in NE Direction (Industrial Area) (25°00.381"N, 074°08.804"E)	Date of Receipt :	24-03-2023
Date of Test/Analysis :	24-03-2023 to 03-04-2023	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]	340	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	15.48	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	139.72	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	33.01	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	4.3	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	71.8	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes -

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Purush
Purush Mal Yogi
Senior Analyst

Raj
Authorized Signatory
(Report No: TC502523400000771)



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TEST REPORT

Report No./ULR No. :	TC502523400000772	Date :	03-04-2023
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 :	21-03-2023 16:20 to 22-03-2023 16:20
Point of Collection :	Near Tailing Dam (24°57.495'N, 74°08.842'E)	Date of Receipt :	24-03-2023
Date of Test/Analysis :	24-03-2023 to 03-04-2023	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]	360	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	13.55	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	130.95	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	29.18	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	5.08	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	67.74	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Purnan Mal Yogi
Senior Analyst

Rajan Chohan
Authorized Signatory
(Report No: TC502523400000772)



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TEST REPORT

Report No./ULR No. :	TC502523400000773	Date :	03-04-2023
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 :	21-03-2023 16:40 to 22-03-2023 16:40
Point of Collection :	Near Encline (Acquired Area)-Industrial Area (25°00.118"N, 074°08.710"E)	Date of Receipt :	24-03-2023
Date of Test/Analysis :	24-03-2023 to 03-04-2023	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]	14.04	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	131.84	IS 5182 (Part 4) : 1999 RA 2019	Not Specified
4	Particulate Matter (PM2.5) [microgram/m3]	27.94	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	5.4	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	73.6	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes -

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Pankaj Mal Yogi
Senior Analyst

Rajesh Maheshwan
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1st Visit Report – 29 Nov - 01 Dec, 2022, SK Mines, HZL

Part of (PO No.: 3255768469 / 5100031999 Amendment added: 24/11/2022 LI-20)



Part of SSP/N/..../2022-23

December 2022

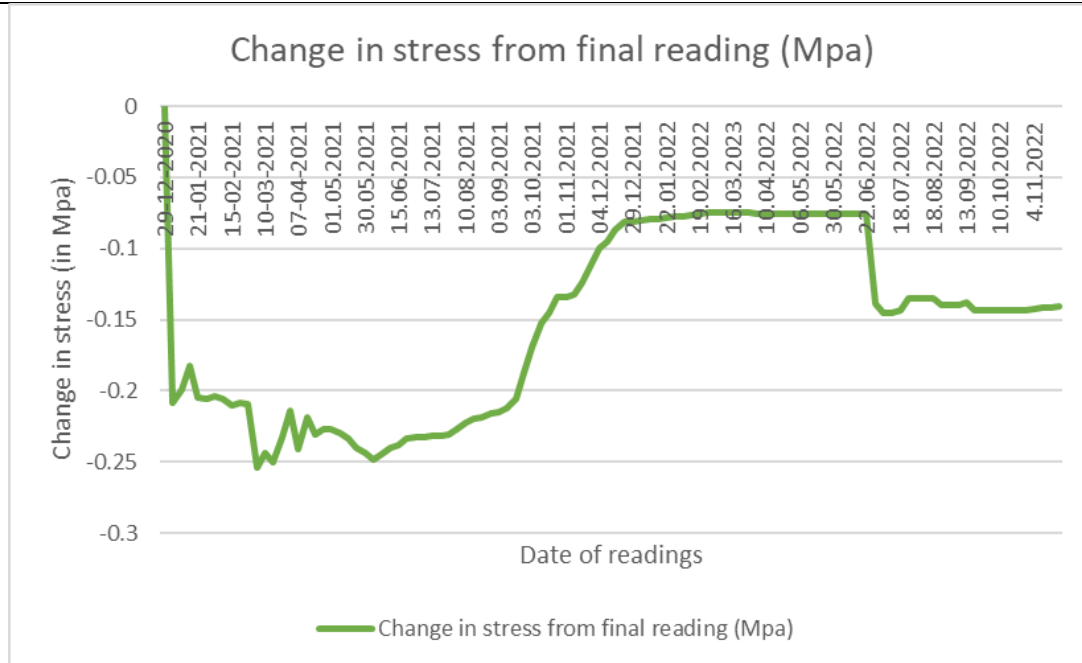


Figure 17: Graph showing change in stress at -5 mRL 1

6.0 STABILITY OF WASTE DUMP

The waste dump on the surface was inspected. A three dimensional view of the current profile of the waste dump is shown in figure 18. The maximum height of the dump slope is 23 metre as shown in figure 19. Photograph of the dump is shown in figure 20&21. The following are the observations and further recommendations

1. Surface is properly levelled and no tension cracks found.
2. With the current bench configuration and geometry of the dump it has good stability and not have any danger of collapse.
3. 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.
4. Dumping operation is being carried out as per the SOP.
5. If the height of the dump from the original surface profile is increased more than 30m, a bench of minimum 30m width needs to be left prior to starting a second bench.
6. The dump profile movements are continued to be monitored using Total Station survey on a regular basis.

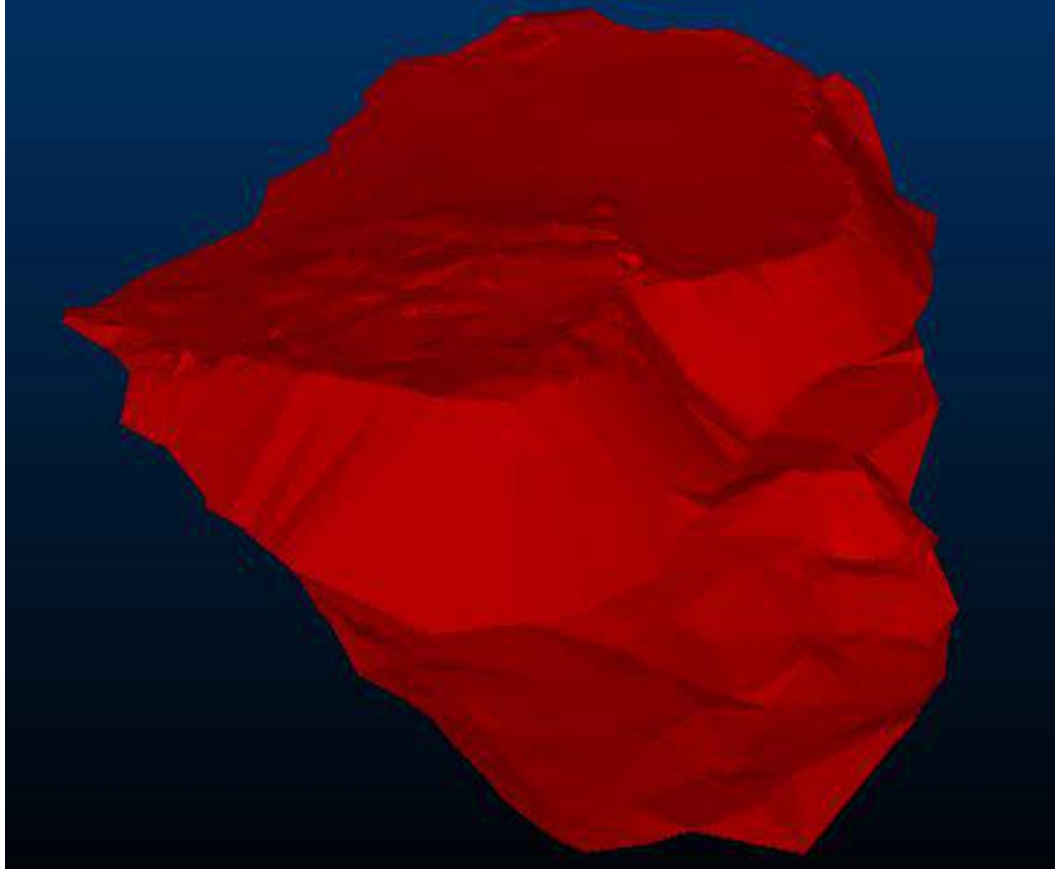


Figure-18 3D Profile of waste dump

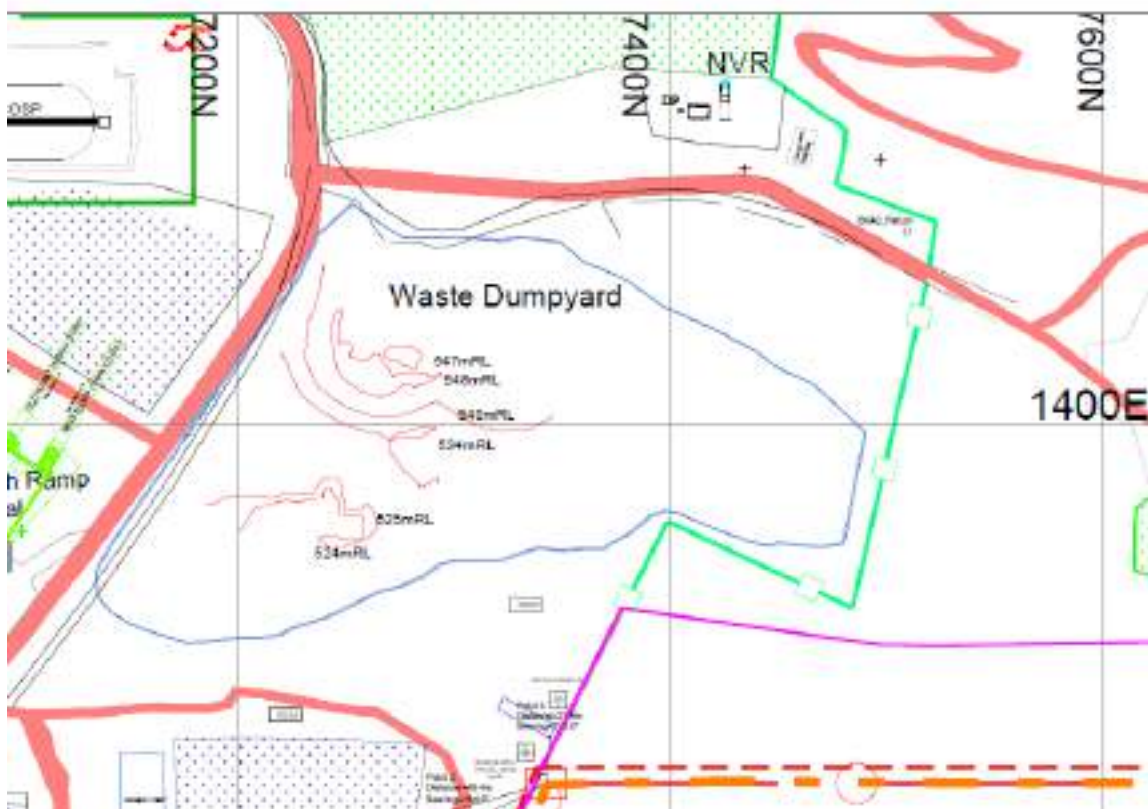


Figure 19 Plan view of the dump



Figure 20 Surface waste dump



Figure 21 Waste dump and haul road



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Annexure IV

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TEST REPORT

Report No./ULR No. :	300000103	Date :	11-01-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajasmand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Vegetables/Crops	Date of Sample Collection/Monitoring	20-12-2022
Point of Collection :	Sindesar Khurd (wheat leafs)	Date of Receipt :	27-12-2022
Date of Test/Analysis :	27-12-2022 to 11-01-2023	Sampling Plan :	Not Available
Quantity of Sample :	-	Sample Collected By :	Krishan Muran
Unit's representative :	Mr Sunil Chouhan	Condition of Sample :	Frt for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Lead [ppm]	0.76	APHA : 2017:3111-B
2	Zinc [ppm]	180.39	APHA : 2017:3111-B
3	Copper [ppm]	10.17	APHA : 2017:3111-B
4	Cadmium [ppm]	0.18	APHA : 2017:3111-B
5	Nickel [ppm]	0.60	APHA : 2017:3111-B
6	Iron [ppm]	286.85	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

Note :-

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Balran

Senior Analyst

Raj

Authorized Signatory
(Report No: 300000103)



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TEST REPORT

Report No./ULR No :	300000104	Date :	11-01-2023
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 :	20-12-2022
Point of Collection :	Banania Kalan (Banley Leafs)	Date of Receipt :	27-12-2022
Date of Test/Analysis :	27-12-2022 to 11-01-2023	Sampling Plan :	Not Available
Quantity of Sample :	-	Sample Collected By :	Krishan Murari
Unit's representative :	Mr Sunil Chouhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Lead (ppm)	1.11	APHA : 2017:3111-B
2	Zinc (ppm)	107.09	APHA : 2017:3111-B
3	Copper (ppm)	56.88	APHA : 2017:3111-B
4	Cadmium (ppm)	0.29	APHA : 2017:3111-B
5	Nickel (ppm)	0.41	APHA : 2017:3111-B
6	Iron (ppm)	328.65	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

Note :-

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

Balra

Senior Analyst

Raj

Authorized Signatory
(Report No. 300000104)



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TEST REPORT

Report No./ULR No. :	300000105	Date :	11-01-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Danba - 313211 Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Vegetables/Crops	Date of Sample Collection/Monitoring	20-12-2022
Point of Collection :	Raghnath pura (wheat Leafs)	Date of Receipt :	27-12-2022
Date of Test/Analysis :	27-12-2022 to 11-01-2023	Sampling Plan :	Not Available
Quantity of Sample :	-	Sample Collected By :	Krishan Murari
Unit's representative :	Mr Sunil Chouhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Lead [ppm]	1.23	APHA : 2017:3111-B
2	Zinc [ppm]	122.1	APHA : 2017:3111-B
3	Copper [ppm]	13.18	APHA : 2017:3111-B
4	Cadmium [ppm]	0.15	APHA : 2017:3111-B
5	Nickel [ppm]	0.60	APHA : 2017:3111-B
6	Iron [ppm]	364.5	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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Rajiv

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TEST REPORT

Report No./JLR No. :	300000106	Date :	11-01-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Dist. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample	Vegetables/Crops	Date of Sample Collection/Monitoring :	20-12-2022
Point of Collection	Kantiya Khara (Rinjika Leafy)	Date of Receipt :	27-12-2022
Date of Test/Analysis :	27-12-2022 to 11-01-2023	Sampling Plan :	Not Available
Quantity of Sample :	-	Sample Collected By :	Krishan Muran
Unit's representative :	Mr Sunil Chouhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Lead [ppm]	1.13	APHA : 2017.3111-B
2	Zinc [ppm]	62.45	APHA : 2017.3111-B
3	Copper [ppm]	13.66	APHA : 2017.3111-B
4	Cadmium [ppm]	0.17	APHA : 2017.3111-B
5	Nickel [ppm]	0.21	APHA : 2017.3111-B
6	Iron [ppm]	115.69	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 :-

- a The results listed refer only to the tested sample (at 8 parameters); Endorsement of products is neither claimed nor implied
- a This report is not to be reproduced, wholly or in part and can not be used evidence in a court of law and should not be used in any advertising media without our special permission in writing
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Balram

Senior Analyst

Rajni

Authorized Signatory
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TEST REPORT

Report No./ULR No. :	300000107	Date :	11-01-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Danba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Vegetables/Crops	Date of Sample Collection/Monitoring :	20-12-2022
Point of Collection :	Rajpura village (Sugarcane Leaves)	Date of Receipt :	27-12-2022
Date of Test/Analysis :	27-12-2022 to 11-01-2023	Sampling Plan :	Not Available
Quantity of Sample :	-	Sample Collected By :	Krishan Muran
Unit's representative :	Mr Sunil Chauhhan	Condition of Sample :	Fil for testing

RESULTS

S No	Parameters	Observed Value	Testing Protocol
1	Lead [ppm]	1.26	APHA : 2017:3111-B
2	Zinc [ppm]	51.11	APHA : 2017:3111-B
3	Copper [ppm]	2.98	APHA : 2017:3111-B
4	Cadmium [ppm]	0.17	APHA : 2017:3111-B
5	Nickel [ppm]	Less than 0.1	APHA : 2017:3111-B
6	Iron [ppm]	228.87	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.
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Balram

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Raj

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(Report No. 300000107)



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TEST REPORT

Report No./ULR No. :	300000108	Date :	11-01-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P. O. - Dariba - 313211, Dist. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Vegetables/Crops	Date of Sample Collection/Monitoring :	20-12-2022
Point of Collection :	Sindesar Khurd (Lokl Leafy)	Date of Receipt :	27-12-2022
Date of Test/Analysis :	27-12-2022 to 11-01-2023	Sampling Plan :	Not Available
Quantity of Sample :	-	Sample Collected By :	Krishan Murari
Unit's representative :	Mr Sunil Choudhan	Condition of Sample :	Fil for testing

RESULTS

S No	Parameters	Observed Value	Testing Protocol
1	Lead [ppm]	0.53	APHA : 2017:3111-B
2	Zinc [ppm]	288.15	APHA : 2017:3111-B
3	Copper [ppm]	13.59	APHA : 2017:3111-B
4	Cadmium [ppm]	0.28	APHA : 2017:3111-B
5	Nickel [ppm]	0.36	APHA : 2017:3111-B
6	Iron [ppm]	891.28	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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Balaram

Senior Analyst

Rajin

Authorized Signatory
(Report No: 300000108)



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TEST REPORT

Report No./ULR No. :	300000109	Date :	11-01-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Dist. Rajsamand (Rajasthan),	Type of Unit	Mines
Type of Sample :	Aquatic Life and Invertebrates Animals	Date of Sample Collection/Monitoring :	20-12-2022
Point of Collection :	Bamania Katan (Banas River)	Date of Receipt :	27-12-2022
Date of Test/Analysis :	27-12-2022 to 11-01-2023	Sampling Plan :	Not Available
Quantity of Sample :	-	Sample Collected By :	Krishan Murari
Unit's representative :	Mr Sunil Chouhan	Condition of Sample :	Fil for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Lead [ppm]	0.25	APHA : 2017:3111-B
2	Zinc [ppm]	45.38	APHA : 2017:3111-B
3	Copper [ppm]	6.22	APHA : 2017:3111-B
4	Cadmium [ppm]	0.13	APHA : 2017:3111-B
5	Nickel [ppm]	0.71	APHA : 2017:3111-B
6	Iron [ppm]	42.55	APHA : 2017:3111-B
7	Chromium [ppm]	0.25	APHA : 2017:3111-B
8	Mercury [ppm]	0.03	APHA : 2017:3111-B

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Balran

Senior Analyst

Rajin

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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	300000110	Date :	11-01-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Darba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Aquatic Life and Invertebrates Animals	Date of Sample Collection/Monitoring :	20-12-2022
Point of Collection :	Raghunath pura Pond fish	Date of Receipt :	27-12-2022
Date of Test/Analysis :	27-12-2022 to 11-01-2023	Sampling Plan :	Not Available
Quantity of Sample :	-	Sample Collected By :	Krishan Murari
Unit's representative :	Mr Sunil Choudhan	Condition of Sample :	Fil for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Lead [ppm]	0.19	APHA : 2017:3111-B
2	Zinc [ppm]	31.86	APHA : 2017:3111-B
3	Copper [ppm]	5.83	APHA : 2017:3111-B
4	Cadmium [ppm]	0.10	APHA : 2017:3111-B
5	Nickel [ppm]	0.54	APHA : 2017:3111-B
6	Iron [ppm]	23.72	APHA : 2017:3111-B
7	Chromium [ppm]	0.08	APHA : 2017:3111-B
8	Mercury [ppm]	0.04	APHA : 2017:3111-B

Notes :-

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Balram

Senior Analyst

Rajiv

Authorized Signatory
(Report No: 300000110)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	300000111	Date :	11-01-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Darha - 313211, Distt. Rajasthan (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Aquatic Life and Invertebrates Animals	Date of Sample Collection/Monitoring :	20-12-2022
Point of Collection :	Bharai Dam Pond Fish	Date of Receipt :	27-12-2022
Date of Test/Analysis :	27-12-2022 to 11-01-2023	Sampling Plan :	Not Available
Quantity of Sample	-	Sample Collected By :	Krishan Murari
Unit's representative :	Mr Sunil Chouhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Lead [ppm]	0.22	APHA : 2017:3111-B
2	Zinc [ppm]	28.43	APHA : 2017:3111-B
3	Copper [ppm]	6.10	APHA : 2017:3111-B
4	Cadmium [ppm]	0.13	APHA : 2017:3111-B
5	Nickel [ppm]	0.69	APHA : 2017:3111-B
6	Iron [ppm]	34.11	APHA : 2017:3111-B
7	Chromium [ppm]	0.04	APHA : 2017:3111-B
8	Mercury [ppm]	0.03	APHA : 2017:3111-B

Notes :-

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Balraj
Senior Analyst

Rajeev
Authorized Signatory
(Report No: 300000111)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	900000029	Date :	21-04-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Vegetables/Crops	Date of Sample Collection/Monitoring :	23-03-2023
Point of Collection :	SKM (wheat leafs)	Date of Receipt :	27-03-2023
Date of Test/Analysis :	27-03-2023 to 20-04-2023	Sampling Plan :	Not Available
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
1	Lead [ppm]	0.69	APHA : 2017:3111-B
2	Zinc [ppm]	213.44	APHA : 2017:3111-B
3	Copper [ppm]	8.65	APHA : 2017:3111-B
4	Cadmium [ppm]	0.17	APHA : 2017:3111-B
5	Nickel [ppm]	0.52	APHA : 2017:3111-B
6	Iron [ppm]	286.72	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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Balram Agarwal
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: 900000029)



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TEST REPORT

Report No./ULR No. :	9000000030	Date :	21-04-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Vegetables/Crops	Date of Sample Collection/Monitoring :	23-03-2023
Point of Collection :	Bamania Kalan (Barley Leafs)	Date of Receipt :	27-03-2023
Date of Test/Analysis :	27-03-2023 to 20-04-2023	Sampling Plan :	Not Available
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
1	Lead [ppm]	1.24	APHA : 2017:3111-B
2	Zinc [ppm]	132.65	APHA : 2017:3111-B
3	Copper [ppm]	48.15	APHA : 2017:3111-B
4	Cadmium [ppm]	0.28	APHA : 2017:3111-B
5	Nickel [ppm]	0.52	APHA : 2017:3111-B
6	Iron [ppm]	364.72	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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Balram
Balram Agarwal
Senior Analyst

Raj
Authorized Signatory
(Report No: 9000000030)



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TEST REPORT

Report No./ULR No. :	900000031	Date :	21-04-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Vegetables/Crops	Date of Sample Collection/Monitoring :	23-03-2023
Point of Collection :	Ragunath pura (wheat Leafs)	Date of Receipt :	27-03-2023
Date of Test/Analysis :	27-03-2023 to 20-04-2023	Sampling Plan :	Not Available
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
1	Lead [ppm]	1.12	APHA : 2017:3111-B
2	Zinc [ppm]	174.63	APHA : 2017:3111-B
3	Copper [ppm]	14.29	APHA : 2017:3111-B
4	Cadmium [ppm]	0.16	APHA : 2017:3111-B
5	Nickel [ppm]	0.64	APHA : 2017:3111-B
6	Iron [ppm]	387.15	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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Bairam
Bairam Agarwal
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: 900000031)



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TEST REPORT

Report No./ULR No. :	900000032	Date :	21-04-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Vegetables/Crops	Date of Sample Collection/Monitoring :	23-03-2023
Point of Collection :	Kantiya Khara (Rajika Leafs)	Date of Receipt :	27-03-2023
Date of Test/Analysis :	27-03-2023 to 20-04-2023	Sampling Plan :	Not Available
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
1	Lead [ppm]	1.24	APHA : 2017:3111-B
2	Zinc [ppm]	78.25	APHA : 2017:3111-B
3	Copper [ppm]	12.95	APHA : 2017:3111-B
4	Cadmium [ppm]	0.19	APHA : 2017:3111-B
5	Nickel [ppm]	0.24	APHA : 2017:3111-B
6	Iron [ppm]	156.72	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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Balram
Balram Agarwal
Senior Analyst

Raj
Rajesh Babashwan
Authorized Signatory
(Report No: 900000032)



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Report No./ULR No. :	900000033	Date :	21-04-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Vegetables/Crops	Date of Sample Collection/Monitoring :	23-03-2023
Point of Collection :	Rajpura Village (Sugarcane Leafs)	Date of Receipt :	27-03-2023
Date of Test/Analysis :	27-03-2023 to 20-04-2023	Sampling Plan :	Not Available
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
1	Lead [ppm]	1.34	APHA : 2017:3111-B
2	Zinc [ppm]	64.17	APHA : 2017:3111-B
3	Copper [ppm]	3.16	APHA : 2017:3111-B
4	Cadmium [ppm]	0.16	APHA : 2017:3111-B
5	Nickel [ppm]	0.11	APHA : 2017:3111-B
6	Iron [ppm]	241.69	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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Balram
Balram Agarwal
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: 900000033)



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TEST REPORT

Report No./ULR No. :	9000000034	Date :	21-04-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distl. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Vegetables/Crops	Date of Sample Collection/Monitoring :	23-03-2023
Point of Collection :	Sindesar Khurd (Loki Leafs)	Date of Receipt :	27-03-2023
Date of Test/Analysis :	27-03-2023 to 20-04-2023	Sampling Plan :	Not Available
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
1	Lead [ppm]	0.61	APHA : 2017:3111-B
2	Zinc [ppm]	284.56	APHA : 2017:3111-B
3	Copper [ppm]	14.27	APHA : 2017:3111-B
4	Cadmium [ppm]	0.27	APHA : 2017:3111-B
5	Nickel [ppm]	0.38	APHA : 2017:3111-B
6	Iron [ppm]	713.42	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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Balram
Balram Aggarwal
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: 9000000034)



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TEST REPORT

Report No./ULR No. :	900000035	Date :	21-04-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Aquatic Life and Invertebrates Animals	Date of Sample Collection/Monitoring :	23-03-2023
Point of Collection :	Bamania Kalan (Banas River)	Date of Receipt :	27-03-2023
Date of Test/Analysis :	27-03-2023 to 20-04-2023	Sampling Plan :	Not Available
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
1	Lead [ppm]	0.27	APHA : 2017:3111-B
2	Zinc [ppm]	53.67	APHA : 2017:3111-B
3	Copper [ppm]	5.49	APHA : 2017:3111-B
4	Cadmium [ppm]	0.15	APHA : 2017:3111-B
5	Nickel [ppm]	0.82	APHA : 2017:3111-B
6	Iron [ppm]	61.44	APHA : 2017:3111-B
7	Chromium [ppm]	0.23	APHA : 2017:3111-B
8	Mercury [ppm]	0.04	APHA : 2017:3111-B

Notes :-

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Balraj
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 900000035)



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TEST REPORT

Report No./ULR No. :	900000036	Date :	21-04-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Aquatic Life and Invertebrates Animals	Date of Sample Collection/Monitoring :	23-03-2023
Point of Collection :	Raghunath pura Pond fish	Date of Receipt :	27-03-2023
Date of Test/Analysis :	27-03-2023 to 20-04-2023	Sampling Plan :	Not Available
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
1	Lead [ppm]	0.17	APHA : 2017:3111-B
2	Zinc [ppm]	35.72	APHA : 2017:3111-B
3	Copper [ppm]	6.92	APHA : 2017:3111-B
4	Cadmium [ppm]	0.13	APHA : 2017:3111-B
5	Nickel [ppm]	0.61	APHA : 2017:3111-B
6	Iron [ppm]	28.45	APHA : 2017:3111-B
7	Chromium [ppm]	0.06	APHA : 2017:3111-B
8	Mercury [ppm]	0.03	APHA : 2017:3111-B

Notes :-

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Sitaram Agarwal
Senior Analyst

Rajeshwar Singh
Authorized Signatory
(Report No: 900000036)



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TEST REPORT

Report No./ULR No. :	900000037	Date :	21-04-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Aquatic Life and Invertebrates Animals	Date of Sample Collection/Monitoring :	23-03-2023
Point of Collection :	Bharai Dam Pond Fish	Date of Receipt :	27-03-2023
Date of Test/Analysis :	27-03-2023 to 20-04-2023	Sampling Plan :	Not Available
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
1	Lead [ppm]	0.27	APHA : 2017:3111-B
2	Zinc [ppm]	36.41	APHA : 2017:3111-B
3	Copper [ppm]	5.86	APHA : 2017:3111-B
4	Cadmium [ppm]	0.14	APHA : 2017:3111-B
5	Nickel [ppm]	0.58	APHA : 2017:3111-B
6	Iron [ppm]	43.75	APHA : 2017:3111-B
7	Chromium [ppm]	0.05	APHA : 2017:3111-B
8	Mercury [ppm]	0.04	APHA : 2017:3111-B

Notes :-

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Balraj
Balraj Agarwal
Senior Analyst

Raj
Rajesh Maheshwari
Authorized Signatory
(Report No: 900000037)



Date: 19.02.2019

To,
 Director,
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 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: Reimagra, 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

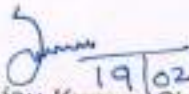
of transportation of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of sound and dust along with chances of accidents could be mitigated. All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation 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 सूरजबारी माताजी के पास 60 बीघा भूमि आवासीय प्रयोजनार्थ संपरिवर्तित करवायी है।

1. संपरिवर्तित जमीन भूमि में स्वीकृत प्लान अनुसार पक्की सड़के 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 31.05.2019 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 पत्रिका राजस्थान

11.06.2019

सूचना

Page - 05

जिला कलक्टर महोदय, राजसमन्द के आदेश क्रमांक 1418-26 दिनांक 04.06.2019 के अनुसार ग्राम सिन्देसर खुर्द को अन्यत्र बसाने के संबंध में लिए गये निर्णय अनुसार विस्थापन हेतु तहसीलदार रेलमगसा की उपस्थिति में कमेटी का गठन किया गया है। उक्त कमेटी ग्राम सिन्देसर खुर्द के अन्यत्र बसाने के मामले में ग्रामवासियों के प्रभावित मकानों, भूखण्डों व कृषि भूमियों के संबंध में स्थानीय व्यक्तियों से सम्पर्क/ सलाह/ समझौता कर सर्वे कार्य किया जायेगा और इसके साथ ही प्रभावित ग्रामवासियों को अन्यत्र बसाने का कार्य भी मजबूत 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-रेलमगसा

पृष्ठ-05, dtd. 11.06.2019

राज्य पत्रिका राजस्थान

सूचना

जिला कलक्टर महोदय, राजसमन्द के आदेश क्रमांक 1418-26 दिनांक 04.06.2019 के अनुसार ग्राम सिन्देसर खुर्द को अन्यत्र बसाने के संबंध में लिए गये निर्णय अनुसार विस्थापन हेतु तहसीलदार रेलमगसा की उपस्थिति में कमेटी का गठन किया गया है। उक्त कमेटी ग्राम सिन्देसर खुर्द के अन्यत्र बसाने के मामले में ग्रामवासियों के प्रभावित मकानों, भूखण्डों व कृषि भूमियों के संबंध में स्थानीय व्यक्तियों से सम्पर्क/ सलाह/ समझौता कर सर्वे कार्य किया जायेगा और इसके साथ ही प्रभावित ग्रामवासियों को अन्यत्र बसाने का कार्य भी मजबूत 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-रेलमगसा



CCS NATIONAL INSTITUTE OF AGRICULTURAL MARKETING



कार्यालय मुख्य वन संरक्षक, वन्यजीव, उदयपुर

क्रमांक: एफ 1()/एफसीए/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 आक्षेपों 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. खेरवा)

मुख्य वन संरक्षक,

वन्यजीव, उदयपुर

n/c

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

Awareness on Menstrual Hygiene Management & Sanitary Napkin Distribution

Date – 12/12/2022

Village – Gawardi

Location – Dariba

Under SAKHI program supported by HZL Dariba, Manjari Foundation organized one day awareness camp on menstrual hygiene management for adolescent girls at Gawardi village. Hygiene-related practices of women during menstruation are of considerable importance, as it has a health impact in terms of increased vulnerability to reproductive tract infections (RTI).



The major objectives of the awareness program are:

- To increase awareness among adolescent girls on Menstrual Hygiene
- To increase access to and use of quality sanitary napkins to adolescent girls in rural areas.
- To ensure safe disposal of Sanitary Napkins

Awareness session was facilitated by Ms. Rubi Singh as a trainer from Manjari Foundation. During the session facilitators provided knowledge and information on 28 days menstruation cycle, periods so that adolescents can crack periods date

and will do preparation for that accordingly. It was also discussed that menstruation is a natural fact of life and a monthly occurrence for girls, women. Facilitators talk about our story of first periods.

Following topics also discussed during the training session.

- Symptoms of period
- access to Hygienic napkins to be used during menstruation period
- What measures to be taken during menstruation pain
- Food and nutrition need to be taken during period
- Social myths and misconceptions attached with this issue
- Safe disposal of napkins
- Societal restriction and lack of menstrual-related information that affect girls' physical and emotional state



Total 21 women and adolescent girls participated in the program. Sanitary napkin distributed to all participants in this camp. Ms. Rubi from Manjari Foundation organized all the activity.

Awareness on Menstrual Hygiene Management & Sanitary Napkin Distribution

Date – 29 March 2023

Village – Kotdi

Location – Kotdi

Under SAKHI program supported by HZL Dariba, Manjari Foundation organized one day awareness camp on menstrual hygiene management for adolescent girls at Kotdi village. Hygiene-related practices of women during menstruation are of considerable importance, as it **has a health impact in terms of increased vulnerability to reproductive tract infections (RTI).**



The major objectives of the awareness program are:

- To increase awareness among adolescent girls on Menstrual Hygiene
- To increase access to and use of quality sanitary napkins to adolescent girls in rural areas.
- To ensure safe disposal of Sanitary Napkins

Awareness session was facilitated by Ms. Rubi Singh as a trainer from Manjari Foundation. During the session facilitators provided knowledge and information on 28 days menstruation cycle, periods so that adolescents can crack periods date and will do preparation for that accordingly. It was also discussed that menstruation is a natural fact of life and a monthly occurrence for girls, women. Facilitators talk about our story of first periods.

Following topics also discussed during the training session.

- Symptoms of period
- access to Hygienic napkins to be used during menstruation period
- What measures to be taken during menstruation pain
- Food and nutrition need to be taken during period
- Social myths and misconceptions attached with this issue
- Safe disposal of napkins
- Societal restriction and lack of menstrual-related information that affect girls' physical and emotional state.



Total 20 women and adolescent girls participated in the program.

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 Jan '23

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	
12.	Any other information:	

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 (μ Sv/hr or mR/hr)		Reference No. of NDC issued by AERB/SARC	Present status of the device (In use/ To be installed/ To be disposed off)
						5 cm	300 cm		
1	Berthold LB491	1	469-02-10	Cs137 & 15mCi	U/F HYDROFILL	1.31	0.12	AERB/RSD/NG/NR435/2010/26 41 Dt 22/03/2010	In Use
2	Berthold LB491	1	464-02-10	Cs137 & 15mCi	U/F HYDROFILL	0.58	0.61	AERB/RSD/NG/NR435/2010/26 41 Dt 22/03/2010	In Use
3	Berthold LB491	1	465-02-10	Cs137 & 15mCi	REGRIND CYCLONE	1.23	0.36	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	2.11	0.48	AERB/RSD/NG/NR435/2010/28 41 Dt 22/03/2010	In Use
5	Berthold LB491	1	467-02-10	Cs137 & 10mCi	PR-SEC CYCLONE STR-2	1.25	0.55	AERB/RSD/NG/NR435/2010/26 41 Dt 22/03/2010	In Use
6	Berthold LB491	1	468-02-10	Cs137 & 10mCi	TDPH	0.78	0.14	AERB/RSD/NG/NR435/2010/26 41 Dt 22/03/2010	In Use
7	Berthold LB491	1	469-02-10	Cs137 & 10mCi	TDPH	1.48	0.52	AERB/RSD/NG/NR435/2010/26 41 Dt 22/03/2010	In Use
8	Berthold LB491	1	470-02-10	Cs137 & 10mCi	TDPH	1.09	0.27	AERB/RSD/NG/NR435/2010/26 41 Dt 22/03/2010	In Use
9	Berthold LB491	1	471-02-10	Cs137 & 10mCi	TAILING THICKENER	1.58	0.44	AERB/RSD/NG/NR435/2010/26 41 Dt 22/03/2010	In Use
10	Berthold LB491	1	472-02-10	Cs137 & 6mCi	Zn Thickener	1.95	0.51	AERB/RSD/NG/NR435/2010/26 41 Dt 22/03/2010	In Use
11	Berthold LB491	1	473-02-10	Cs137 & 20mCi	Pb THICKENER	2.01	0.23	AERB/RSD/NG/NR435/2010/26 41 Dt 22/03/2010	In Use
12	Berthold LB491	1	1017-06-10	Cs137 & 10mCi	STORAGE ROOM	1.87	0.45	AERB/RSD/NG/NR435/2011/1/2067 Dt 15/01/2011	In Use
13	E&H FG031	1	TB616	Cs137 & 20mCi	LOW	2.01	0.47	AERB/RSD/NG/NR435/2010/99 63 Dt 14/10/2010	In Use
14	E&H FG031	1	TB617	Cs137 & 20mCi	HIGH	1.25	0.62	AERB/RSD/NG/NR435/2010/99 63 Dt 14/10/2010	In Use
15	Berthold LB491	1	1372-08-12	Cs137 & 10mCi	CYCLONE FEED HYDROFILL	1.41	0.31	AERB/RSD/NG/NR435/2012/10 504 Dt 22/08/2012	In Use
16	Berthold LB491	1	1373-08-12	Cs137 & 10mCi	CYCLONE FEED HYDROFILL	1.74	0.41	AERB/RSD/NG/NR435/2012/10 504 Dt 22/08/2012	In Use
17	Berthold LB491	1	1374-08-12	Cs137 & 10mCi	HYDROFILL	2.68	0.58	AERB/RSD/NG/NR435/2012/10 504 Dt 22/08/2012	In Use
18	Berthold LB491	1	1375-08-12	Cs137 & 10mCi	HYDROFILL	1.75	0.33	AERB/RSD/NG/NR435/2012/10 504 Dt 22/08/2012	In Use
19	Berthold LB491	1	1514-08-13	Cs137 & 56mCi	PASTE FILL - TAILING THICKENER	2.21	0.52	AERB/RSD/NG/NR435/2013/11 772 Dt 02/09/2013	In Use
20	Berthold LB491	1	1515-08-13	Cs137 & 56mCi	PASTE FILL - TAILING THICKENER	1.49	0.46	AERB/RSD/NG/NR435/2013/11 772 Dt 02/09/2013	In Use
21	Berthold LB491	1	1516-08-13	Cs137 & 20mCi	PASTE FILL	1.03	0.14	AERB/RSD/NG/NR435/2013/11 772 Dt 02/09/2013	In Use
22	Berthold LB491	1	1599-09-13	Cs137 & 20mCi	PASTE FILL	1.28	0.11	AERB/RSD/NG/NR435/2013/12 845 Dt 14/09/2013	In Use
23	FG660	1	18000001145	Cs137 & 5mCi	GRINDING CYCLONE FEED	1.5	0.91	16-NGPROC-128695	In Use
24	FG660	1	18000001145	Cs137 & 5mCi	ZINC THICKENER ST-2	1.32	0.51	16-NGPROC-128694	In Use
25	FG660	1	18000901145	Cs137 & 3mCi	TAILING THICKENER ST-2	2.2	0.84	16-NGPROC-128693	In Use
26	FG661	1	18004801139	Cs137 & 10mCi	LEAD THICKENER ST-2	2.5	0.28	16-NGPROC-128687	In Use
27	FG661	1	18004401139	Cs137 & 10mCi	TAILING BATTERY 1	2.68	0.22	16-NGPROC-128695	In Use
28	FG660	1	18000001145	Cs137 & 2mCi	TAILING BATTERY 2	1.09	0.16	16-NGPROC-128692	In Use
29	FG660	1	18000001145	Cs137 & 2mCi	TAILING BATTERY 3	2.53	0.62	16-NGPROC-128691	In Use
30	FG660	1	18000801145	Cs137 & 2mCi	PASTE FILL Battery-A	2.45	0.41	16-NGPROC-128690	In Use
31	FG660	1	18000801145	Cs137 & 3mCi	PASTE FILL Battery-B	1.97	0.59	16-NGPROC-128688	In Use
32	FG660	1	18000801145	Cs137 & 3mCi	GRINDING CYCLONE FEED	2.08	0.85	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.

Head - E & I

Signature:

Name: Sh. Jitendra Minare

Employer/Licensee

Signature:

Name: Sh. Anshul Kumar Khandelwal

(Seal of the Institution)

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

Annexure X



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						
m ³ /day		m ³ /year		m ³ /day		m ³ /year		m ³ /day		m ³ /year		m ³ /day		m ³ /year	
0.00		0.00				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)

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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.)

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:	Sindesarkhurd
	Latitude:	
	Logitude:	
	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
	Vailidity (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	



(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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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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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. :	TC502523100002519	Date :	09-01-2023
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 / -	Date of Sample Collection/Monitoring :	20-12-2022
Point of Collection :	SKM Inside	Date of Receipt :	27-12-2022
Date of Test/Analysis :	27-12-2022 to 09-01-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashtra Murari
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	7.49	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
2	Hardness (total) [mg/l]	120.19	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
3	Iron [mg/l]	0.11	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
4	Chloride [mg/l]	47.5	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	868	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	16.36	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]	40.66	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	-



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

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Phone : +91 6377210064, 9414077379,
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Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
12	Zinc [mg/l]	0.03	IS 3025 (Part 49) : 1994 RA 2019	5.00	15.00
13	Alkalinity - T [mg/l]	446.2	IS 3025 (Part 23) : 1986 RA 2019	200.00	600.00
14	Suspended Solids [mg/l]	3	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]	871	IS 3025 (part 15) : 1984 RA 2019	-	-

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.

Balram

Balram Agarwal
Senior Analyst

Rajesh

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523100002519)



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

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

TEST REPORT

Report No./ULR No. :	100002519	Date :	09-01-2023
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 / -	Date of Sample Collection/Monitoring :	20-12-2022
Point of Collection :	SKM Inside	Date of Receipt :	27-12-2022
Date of Test/Analysis :	27-12-2022 to 09-01-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashtra Murari
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
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 100002519)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No.:	TC502523100002520	Date :	09-01-2023
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 / -	Date of Sample Collection/Monitoring :	20-12-2022
Point of Collection :	Reimnagra	Date of Receipt :	27-12-2022
Date of Test/Analysis :	27-12-2022 to 09-01-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashtra Murari
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	7.18	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
2	Hardness (total) [mg/l]	442.31	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
3	Iron [mg/l]	0.03	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
4	Chloride [mg/l]	175.76	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	1216	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	56.07	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]	62.50	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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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]	0.11	IS 3025 (Part 49) : 1994 RA 2019	5.00	15.00
13	Alkalinity - T [mg/l]	417.1	IS 3025 (Part 23) : 1986 RA 2019	200.00	600.00
14	Suspended Solids [mg/l]	3	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]	1219	IS 3025 (part 15) : 1984 RA 2019	-	-

Notes :-

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Balram

Balram Agarwal
Senior Analyst

Rajesh

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523100002520)



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TEST REPORT

Report No./ULR No. :	100002520	Date :	09-01-2023
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 / -	Date of Sample Collection/Monitoring :	20-12-2022
Point of Collection :	Reimagra	Date of Receipt :	27-12-2022
Date of Test/Analysis :	27-12-2022 to 09-01-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashtra Murari
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
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 100002520)



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TEST REPORT

Report No./ULR No. :	TC502523100002521	Date :	09-01-2023
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 / -	Date of Sample Collection/Monitoring :	20-12-2022
Point of Collection :	Rajpura Village	Date of Receipt :	27-12-2022
Date of Test/Analysis :	27-12-2022 to 09-01-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashtra Murari
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]	355.77	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]	88.06	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	914	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	21.03	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]	223.33	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	-

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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]	0.19	IS 3025 (Part 49) : 1994 RA 2019	5.00	15.00
13	Alkalinity - T [mg/l]	281.3	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]	919	IS 3025 (part 15) : 1984 RA 2019	-	-

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Balram

Balram Agarwal
Senior Analyst

Rajesh

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523100002521)



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TEST REPORT

Report No./ULR No. :	100002521	Date :	09-01-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Daniba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Water / -	Date of Sample Collection/Monitoring :	20-12-2022
Point of Collection :	Rajpura Village	Date of Receipt :	27-12-2022
Date of Test/Analysis :	27-12-2022 to 09-01-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashna Murari
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	-	-

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Balram

Balram Agarwal
Senior Analyst

Rajesh

Rajesh Maheshwari
Authorized Signatory
(Report No: 100002521)



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TEST REPORT

Report No./ULR No. :	TC502523100002522	Date :	09-01-2023
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 / -	Date of Sample Collection/Monitoring :	20-12-2022
Point of Collection :	Raghunathpura Village	Date of Receipt :	27-12-2022
Date of Test/Analysis :	27-12-2022 to 09-01-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashtra Murari
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	7.40	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]	73.38	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	732	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	16.82	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]	106.33	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	-

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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]	407.4	IS 3025 (Part 23) : 1986 RA 2019	200.00	600.00
14	Suspended Solids [mg/l]	3	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]	735	IS 3025 (part 15) : 1984 RA 2019	-	-

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Balram

Balram Agarwal
Senior Analyst

Rajesh

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523100002522)



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TEST REPORT

Report No./ULR No. :	100002522	Date :	09-01-2023
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 / -	Date of Sample Collection/Monitoring :	20-12-2022
Point of Collection :	Raghunathpura Village	Date of Receipt :	27-12-2022
Date of Test/Analysis :	27-12-2022 to 09-01-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashna Murari
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	-	-

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Balram

Balram Agarwal
Senior Analyst

Rajesh

Rajesh Maheshwari
Authorized Signatory
(Report No: 100002522)



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TEST REPORT

Report No./ULR No. :	TC502523100002523	Date :	09-01-2023
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 / -	Date of Sample Collection/Monitoring :	20-12-2022
Point of Collection :	Amarpura Village	Date of Receipt :	27-12-2022
Date of Test/Analysis :	27-12-2022 to 09-01-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashtra Murari
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	7.39	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
2	Hardness (total) [mg/l]	240.38	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]	83.17	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	1070	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	21.03	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]	49.33	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	-

By:-



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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]	659.6	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]	1074	IS 3025 (part 15) : 1984 RA 2019	-	-

Notes :-

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Balram

Balram Agarwal
Senior Analyst

Rajesh

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523100002523)



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TEST REPORT

Report No./ULR No. :	100002523	Date :	09-01-2023
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 / -	Date of Sample Collection/Monitoring :	20-12-2022
Point of Collection :	Amarpura Village	Date of Receipt :	27-12-2022
Date of Test/Analysis :	27-12-2022 to 09-01-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashna Murari
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
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 100002523)



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TEST REPORT

Report No./ULR No. :	TC502523100002524	Date :	09-01-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsemand (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Water / -	Date of Sample Collection/Monitoring :	20-12-2022
Point of Collection :	Bamania Kalan Village	Date of Receipt :	27-12-2022
Date of Test/Analysis :	27-12-2022 to 09-01-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashna Murari
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	7.07	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
2	Hardness (total) [mg/l]	86.54	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]	146.76	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	758	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	11.68	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]	89.16	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	-

By



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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]	0.05	IS 3025 (Part 49) : 1994 RA 2019	5.00	15.00
13	Alkalinity - T [mg/l]	339.5	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]	766	IS 3025 (part 15) : 1984 RA 2019	-	-

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Balram

Balram Agarwal
Senior Analyst

Rajesh

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523100002524)



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TEST REPORT

Report No./ULR No. :	100002524	Date :	09-01-2023
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 / -	Date of Sample Collection/Monitoring :	20-12-2022
Point of Collection :	Bamania Kalan Village	Date of Receipt :	27-12-2022
Date of Test/Analysis :	27-12-2022 to 09-01-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashna Murari
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	-	-

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Balram
Balram Agarwal
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: 100002524)



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TEST REPORT

Report No./ULR No. :	TC502523100002525	Date :	09-01-2023
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 / -	Date of Sample Collection/Monitoring :	20-12-2022
Point of Collection :	Sindesar Khurd Village	Date of Receipt :	27-12-2022
Date of Test/Analysis :	27-12-2022 to 09-01-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashtra Murari
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	6.90	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
2	Hardness (total) [mg/l]	375	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]	46.47	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	581	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	18.69	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]	73.8	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	-

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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]	0.23	IS 3025 (Part 49) : 1994 RA 2019	5.00	15.00
13	Alkalinity - T [mg/l]	339.5	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]	588	IS 3025 (part 15) : 1984 RA 2019	-	-

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Balram

Balram Agarwal
Senior Analyst

Rajesh

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523100002525)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	100002525	Date :	09-01-2023
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 / -	Date of Sample Collection/Monitoring :	20-12-2022
Point of Collection :	Sindesar Khurd Village	Date of Receipt :	27-12-2022
Date of Test/Analysis :	27-12-2022 to 09-01-2023	Sampling Plan :	IS 3025:1987(Part 1)/RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashna Murari
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
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(Report No: 100002525)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523100002527	Date :	09-01-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajasamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Water / -	Date of Sample Collection/Monitoring :	21-12-2022
Point of Collection :	Bamniya Kalan	Date of Receipt :	27-12-2022
Date of Test/Analysis :	27-12-2022 to 09-01-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashtra Murari
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	8.32	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
2	Hardness (total) [mg/l]	57.69	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
3	Iron [mg/l]	0.09	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
4	Chloride [mg/l]	83.17	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	589	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	2.34	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]	75.4	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	-

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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]	286.15	IS 3025 (Part 23) : 1986 RA 2019	200.00	600.00
14	Suspended Solids [mg/l]	9	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]	598	IS 3025 (part 15) : 1984 RA 2019	-	-

Notes :-

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Raj

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(Report No: TC502523100002527)



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TEST REPORT

Report No./ULR No. :	100002527	Date :	09-01-2023
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 / -	Date of Sample Collection/Monitoring :	21-12-2022
Point of Collection :	Bamniya Kalan	Date of Receipt :	27-12-2022
Date of Test/Analysis :	27-12-2022 to 09-01-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashtra Murari
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
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 100002527)



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TEST REPORT

Report No./ULR No. :	TC502523100002529	Date :	09-01-2023
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 / -	Date of Sample Collection/Monitoring :	20-12-2022
Point of Collection :	Ragunath pura	Date of Receipt :	27-12-2022
Date of Test/Analysis :	27-12-2022 to 09-01-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashtra Murari
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	7.70	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
2	Hardness (total) [mg/l]	144.23	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
3	Iron [mg/l]	0.09	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
4	Chloride [mg/l]	83.17	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	786	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	11.68	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]	168.33	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	-

Ray



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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]	223.1	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]	801	IS 3025 (part 15) : 1984 RA 2019	-	-

Notes :-

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Balram

Balram Agarwal
Senior Analyst

Rajesh

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523100002529)



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TEST REPORT

Report No./ULR No. :	100002529	Date :	09-01-2023
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 / -	Date of Sample Collection/Monitoring :	20-12-2022
Point of Collection :	Ragunath pura	Date of Receipt :	27-12-2022
Date of Test/Analysis :	27-12-2022 to 09-01-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashtra Murari
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

Balram Agarwal
Senior Analyst

Rajesh

Rajesh Maheshwari
Authorized Signatory
(Report No: 100002529)



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TEST REPORT

Report No./ULR No. :	TC502523100002530	Date :	09-01-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsemand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Water / -	Date of Sample Collection/Monitoring :	20-12-2022
Point of Collection :	Bharai Dam	Date of Receipt :	27-12-2022
Date of Test/Analysis :	27-12-2022 to 09-01-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashtra Murari
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	8.44	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
2	Hardness (total) [mg/l]	80.77	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]	35.22	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	216	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	6.07	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]	22.33	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	-

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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]	114.46	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]	223	IS 3025 (part 15) : 1984 RA 2019	-	-

Notes :-

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Balram

Balram Agarwal
Senior Analyst

Rajesh

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523100002530)



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TEST REPORT

Report No./ULR No. :	100002530	Date :	09-01-2023
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 / -	Date of Sample Collection/Monitoring :	20-12-2022
Point of Collection :	Bharai Dam	Date of Receipt :	27-12-2022
Date of Test/Analysis :	27-12-2022 to 09-01-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashtra Murari
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	-	-

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Balram Agarwal
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 100002530)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523100000341	Date :	14-03-2023
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 :	25-02-2023
Point of Collection :	Rajpura Village	Date of Receipt :	28-02-2023
Date of Test/Analysis :	28-02-2023 to 14-03-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr.	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	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]	233.64	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]	95.72	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	984	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]	196.88	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	-



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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]	302.64	IS 3025 (Part 23) : 1986 RA 2019	200.00	600.00
14	Suspended Solids [mg/l]	3	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]	987	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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Belra
Pratam Agarwal
Senior Analyst

Pujan
Pujan Mal Yogi
Authorized Signatory
(Report No: TC502523100000341)



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TEST REPORT

Report No./ULR No. :	100000341	Date :	14-03-2023
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 :	25-02-2023
Point of Collection :	Rajpura Village	Date of Receipt :	28-02-2023
Date of Test/Analysis :	28-02-2023 to 14-03-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr.	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	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

Puran Mar Yogi
Authorized Signatory
(Report No: 100000341)



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TEST REPORT

Report No./ULR No. :	TC502523100000342	Date :	14-03-2023
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 :	25-02-2023
Point of Collection :	Ragunath pura	Date of Receipt :	28-02-2023
Date of Test/Analysis :	28-02-2023 to 14-03-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr.	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	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]	224.3	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]	67	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	860	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	18.17	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]	119.0	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	-

Pydantya
Signature



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

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
12	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994 RA 2019	5.00	15.00
13	Alkalinity - T [mg/l]	378.3	IS 3025 (Part 23) : 1986 RA 2019	200.00	600.00
14	Suspended Solids [mg/l]	6	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]	866	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.

Balraj
Senior Analyst

Purab Mishra
Authorized Signatory
(Report No: TC502523100000342)



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

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

TEST REPORT

Report No./ULR No. :	100000342	Date :	14-03-2023
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 :	25-02-2023
Point of Collection :	Ragunath pura	Date of Receipt :	28-02-2023
Date of Test/Analysis :	28-02-2023 to 14-03-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr.	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	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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Babram
Babram Agarwal
Senior Analyst

Puran
Puran Mal Yogi
Authorized Signatory
(Report No: 100000342)



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

TEST REPORT

Report No./ULR No. :	TC502523100000343	Date :	14-03-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Dist. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Water / Chemical	Date of Sample Collection/Monitoring :	25-02-2023
Point of Collection :	Amarpura Village	Date of Receipt :	28-02-2023
Date of Test/Analysis :	28-02-2023 to 14-03-2023	Sampling Plan :	IS 3025:1987(Part 1)/RA 2014
Quantity of Sample :	2 ltr.	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	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	7.73	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
2	Hardness (total) [mg/l]	214.95	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]	95.72	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	1036	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	18.17	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]	38.0	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	-

Puran Mal Yogi



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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]	727.5	IS 3025 (Part 23) : 1986 RA 2019	200.00	600.00
14	Suspended Solids [mg/l]	9	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]	1045	IS 3025 (part 15) : 1984 RA 2019	-	-

Notes :-

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Balram
Balram Agarwal
Senior Analyst

Purani
Purani Mal Yogi
Authorized Signatory
(Report No: TC502523100000343)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	100000343	Date :	14-03-2023
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 :	25-02-2023
Point of Collection :	Amarpura Village	Date of Receipt :	28-02-2023
Date of Test/Analysis :	28-02-2023 to 14-03-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr.	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	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 Agarwal
Senior Analyst

Authorized Signatory
(Report No: 100000343)



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TEST REPORT

Report No./ULR No. :	TC502523100000344	Date :	14-03-2023
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 :	25-02-2023
Point of Collection :	Bamania Kalan Village	Date of Receipt :	28-02-2023
Date of Test/Analysis :	28-02-2023 to 14-03-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr.	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	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	7.71	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
2	Hardness (total) [mg/l]	84.11	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]	67	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	978	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	14.76	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]	74.63	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	-

Rupam Marogi



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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]	315.25	IS 3025 (Part 23) : 1986 RA 2019	200.00	600.00
14	Suspended Solids [mg/l]	9	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]	987	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

Puran
Puran Mal Yogi
Authorized Signatory
(Report No: TC502523100000344)



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

TEST REPORT

Report No./ULR No. :	100000344	Date :	14-03-2023
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 :	25-02-2023
Point of Collection :	Bamania Kalan Village	Date of Receipt :	28-02-2023
Date of Test/Analysis :	28-02-2023 to 14-03-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr.	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	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 Jangid
Balram Jangid
Senior Analyst

Purushottam Yogi
Purushottam Yogi
Authorized Signatory
(Report No: 100000344)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523100000345	Date :	14-03-2023
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 :	25-02-2023
Point of Collection :	Sindesar Khurd Village	Date of Receipt :	28-02-2023
Date of Test/Analysis :	28-02-2023 to 14-03-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr.	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	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]	457.94	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
3	Iron [mg/l]	0.09	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
4	Chloride [mg/l]	47.86	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	546	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	59.04	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]	64.75	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	-

Puneet Togi



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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]	388	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]	550	IS 3025 (part 15) : 1984 RA 2019	-	-

Notes :-

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Balram
Senior Analyst

Puran Mal Yogi
Authorized Signatory
(Report No: TC502523100000345)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	100000345	Date :	14-03-2023
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 :	25-02-2023
Point of Collection :	Sindesar Khurd Village	Date of Receipt :	28-02-2023
Date of Test/Analysis :	28-02-2023 to 14-03-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr.	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	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 Agarwal
Senior Analyst

Purnima Yogi
Authorized Signatory
(Report No: 100000345)



TEAM TEST HOUSE

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



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

TEST REPORT

Report No./ULR No. :	TC502523100000346	Date :	14-03-2023
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 :	25-02-2023
Point of Collection :	Sunariya Kheda	Date of Receipt :	28-02-2023
Date of Test/Analysis :	28-02-2023 to 14-03-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr.	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	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	7.62	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
2	Hardness (total) [mg/l]	186.92	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]	47.86	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	576	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	19.98	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]	38.38	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
Purushottam Singh



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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]	166.84	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]	583	IS 3025 (part 15) : 1984 RA 2019	-	-

Notes :-

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Balram Agarwal
Senior Analyst

Purnima Yogi
Authorized Signatory
(Report No: TC502523100000346)



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TEST REPORT

Report No./ULR No. :	100000346	Date :	14-03-2023
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 :	25-02-2023
Point of Collection :	Sunariya Kheda	Date of Receipt :	28-02-2023
Date of Test/Analysis :	28-02-2023 to 14-03-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr.	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	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

Durgesh
Durgesh Mehta
Authorized Signatory
(Report No: 100000346)



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Email : director@teamtesthouse.com,
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TEST REPORT

Report No./ULR No. :	TC502523100000588A	Date :	05-04-2023
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 :	Water / Chemical	Date of Sample Collection/Monitoring :	22-03-2023
Point of Collection :	Bamniya Kalan	Date of Receipt :	27-03-2023
Date of Test/Analysis :	27-03-2023 to 05-04-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr.	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	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	7.67	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
2	Hardness (total) [mg/l]	118.87	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
3	Iron [mg/l]	0.03	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
4	Chloride [mg/l]	73.7	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	916	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	14.67	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]	86.5	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	-

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]	0.02	IS 3025 (Part 49) : 1994 RA 2019	5.00	15.00
13	Alkalinity - T [mg/l]	345.6	IS 3025 (Part 23) : 1986 RA 2019	200.00	600.00
14	Suspended Solids [mg/l]	13	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]	929	IS 3025 (part 15) : 1984 RA 2019	-	-

Notes :-

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Balram
Balram Agarwal
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523100000588A)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	100000588A	Date :	05-04-2023
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 :	Water / Chemical	Date of Sample Collection/Monitoring :	22-03-2023
Point of Collection :	Bamniya Kalan	Date of Receipt :	27-03-2023
Date of Test/Analysis :	27-03-2023 to 05-04-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr.	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	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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Balran
Balran Agarwal
Senior Analyst

Rajesh
Rajesh Manchewar
Authorized Signatory
(Report No: 100000588A)



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

TEST REPORT

Report No./ULR No. :	TC502523100000589A	Date :	05-04-2023
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 :	Water / Chemical	Date of Sample Collection/Monitoring :	22-03-2023
Point of Collection :	Banas River	Date of Receipt :	27-03-2023
Date of Test/Analysis :	27-03-2023 to 05-04-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr.	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	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	7.89	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
2	Hardness (total) [mg/l]	222.64	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
3	Iron [mg/l]	0.02	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
4	Chloride [mg/l]	135.92	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	902	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	29.34	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]	175.0	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 Maneshwan



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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]	241.92	IS 3025 (Part 23) : 1986 RA 2019	200.00	600.00
14	Suspended Solids [mg/l]	18	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]	930	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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Balran
Senior Analyst

Rajesh
Authorized Signatory
(Report No. TC502523100000589A)



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

TEST REPORT

Report No./ULR No. :	100000589A	Date :	05-04-2023
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 :	Water / Chemical	Date of Sample Collection/Monitoring :	22-03-2023
Point of Collection :	Banas River	Date of Receipt :	27-03-2023
Date of Test/Analysis :	27-03-2023 to 05-04-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr.	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	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
Authorized Signatory
(Report No: 100000589A)



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TEST REPORT

Report No./ULR No. :	TC502523100000590A	Date :	05-04-2023
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 :	Water / Chemical	Date of Sample Collection/Monitoring :	22-03-2023
Point of Collection :	Ragunath pura	Date of Receipt :	27-03-2023
Date of Test/Analysis :	27-03-2023 to 05-04-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr.	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	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	7.66	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
2	Hardness (total) [mg/l]	237.74	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
3	Iron [mg/l]	0.08	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
4	Chloride [mg/l]	74.66	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	926	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	28.43	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]	129.1	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	-

Rajeshwar



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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]	0.12	IS 3025 (Part 49) : 1994 RA 2019	5.00	15.00
13	Alkalinity - T [mg/l]	374.4	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]	940	IS 3025 (part 15) : 1984 RA 2019	-	-

Notes :-

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Balram
Balram Aggarwal
Senior Analyst

Rajesh
Rajesh Vigneshwaran
Authorized Signatory
(Report No: TC502523100000590A)



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TEST REPORT

Report No./ULR No. :	100000590A	Date :	05-04-2023
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 :	Water / Chemical	Date of Sample Collection/Monitoring :	22-03-2023
Point of Collection :	Ragunath pura	Date of Receipt :	27-03-2023
Date of Test/Analysis :	27-03-2023 to 05-04-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr.	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	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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Balrajgarwal
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 100000590A)



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

TEST REPORT

Report No./ULR No. :	TC502523100000591A	Date :	05-04-2023
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 :	Water / Chemical	Date of Sample Collection/Monitoring :	22-03-2023
Point of Collection :	Bharai Dam	Date of Receipt :	27-03-2023
Date of Test/Analysis :	27-03-2023 to 05-04-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr.	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	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	7.71	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
2	Hardness (total) [mg/l]	252.83	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]	151.23	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	917	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	34.85	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]	258.33	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	-



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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]	149.76	IS 3025 (Part 23) : 1986 RA 2019	200.00	600.00
14	Suspended Solids [mg/l]	22	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]	939	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
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523100000591A)



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TEST REPORT

Report No./ULR No. :	100000591A	Date :	05-04-2023
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 :	Water / Chemical	Date of Sample Collection/Monitoring :	22-03-2023
Point of Collection :	Bharai Dam	Date of Receipt :	27-03-2023
Date of Test/Analysis :	27-03-2023 to 05-04-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr.	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	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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Balran
Senior Analyst

Rajesh Kumar
Authorized Signatory
(Report No: 100000591A)



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TEST REPORT

Report No./ULR No.:	TC502523100002531	Date :	04-01-2023
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 / -	Date of Sample Collection/Monitoring :	20-12-2022
Point of Collection :	PW-2	Date of Receipt :	27-12-2022
Date of Test/Analysis :	27-12-2022 to 04-01-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Sunil Chouhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.51	IS 3025 (Part 11) : 1983 RA 2017
2	Hardness (total) [mg/l]	423.08	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	0.09	IS 3025 (Part 53) : 2003 RA 2019
4	Chloride [mg/l]	473.04	IS 3025 (Part 32) : 1988 RA 2019
5	Total Dissolved Solids [mg/l]	1628	IS 3025 (Part 16) : 1984 RA 2017
6	Magnesium [mg/l]	32.71	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]	566.66	IS 3025 (Part 24) : 1986 RA 2019

Note:

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RESULTS

S.No	Parameters	Observed Value	Testing Protocol
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]	BDL (<0.01)	IS 3025 (Part 49) : 1994 RA 2019
13	Alkalinity - T [mg/l]	242.5	IS 3025 (Part 23) : 1986 RA 2019
14	Suspended Solids [mg/l]	23	IS 3025 (Part 17) : 1984 RA 2017
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]	0.02	IS 3025 (Part 54) : 2003 RA 2019
18	Total Solids [mg/l]	1651	IS 3025 (part 15) : 1984 RA 2019

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: TC502523100002531)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	100002531	Date :	04-01-2023
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 / -	Date of Sample Collection/Monitoring :	20-12-2022
Point of Collection :	PW-2	Date of Receipt :	27-12-2022
Date of Test/Analysis :	27-12-2022 to 04-01-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Sunil Chouhan	Condition of Sample :	Fit for testing

RESULTS

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

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: 100002531)



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TEST REPORT

Report No./ULR No. :	TC502523100002533	Date :	04-01-2023
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 / -	Date of Sample Collection/Monitoring :	20-12-2022
Point of Collection :	PW-1	Date of Receipt :	27-12-2022
Date of Test/Analysis :	27-12-2022 to 04-01-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Sunil Chouhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.36	IS 3025 (Part 11) : 1983 RA 2017
2	Hardness (total) [mg/l]	461.54	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	0.09	IS 3025 (Part 53) : 2003 RA 2019
4	Chloride [mg/l]	468.12	IS 3025 (Part 32) : 1988 RA 2019
5	Total Dissolved Solids [mg/l]	1756	IS 3025 (Part 16) : 1984 RA 2017
6	Magnesium [mg/l]	37.38	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]	516.66	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	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]	BDL (<0.01)	IS 3025 (Part 49) : 1994 RA 2019
13	Alkalinity - T [mg/l]	368.6	IS 3025 (Part 23) : 1986 RA 2019
14	Suspended Solids [mg/l]	18	IS 3025 (Part 17) : 1984 RA 2017
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]	0.02	IS 3025 (Part 54) : 2003 RA 2019
18	Total Solids [mg/l]	1774	IS 3025 (part 15) : 1984 RA 2019

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: TC502523100002533)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	100002533	Date :	04-01-2023
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 / -	Date of Sample Collection/Monitoring :	20-12-2022
Point of Collection :	PW-1	Date of Receipt :	27-12-2022
Date of Test/Analysis :	27-12-2022 to 04-01-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashna Murari
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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Senior Analyst

Authorized Signatory
(Report No: 100002533)



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

TEST REPORT

Report No./ULR No. :	TC502523100002535	Date :	04-01-2023
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 / -	Date of Sample Collection/Monitoring :	20-12-2022
Point of Collection :	PW-5	Date of Receipt :	27-12-2022
Date of Test/Analysis :	27-12-2022 to 04-01-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Sunil Chouhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.44	IS 3025 (Part 11) : 1983 RA 2017
2	Hardness (total) [mg/l]	500	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	0.09	IS 3025 (Part 53) : 2003 RA 2019
4	Chloride [mg/l]	468.12	IS 3025 (Part 32) : 1988 RA 2019
5	Total Dissolved Solids [mg/l]	1608	IS 3025 (Part 16) : 1984 RA 2017
6	Magnesium [mg/l]	51.4	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]	506.60	IS 3025 (Part 24) : 1986 RA 2019

Note:

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

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
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]	BDL (<0.01)	IS 3025 (Part 49) : 1994 RA 2019
13	Alkalinity - T [mg/l]	116.4	IS 3025 (Part 23) : 1986 RA 2019
14	Suspended Solids [mg/l]	21	IS 3025 (Part 17) : 1984 RA 2017
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]	0.02	IS 3025 (Part 54) : 2003 RA 2019
18	Total Solids [mg/l]	1629	IS 3025 (part 15) : 1984 RA 2019

Notes :-

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Senior Analyst



Authorized Signatory

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

TEST REPORT

Report No./ULR No. :	100002535	Date :	04-01-2023
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 / -	Date of Sample Collection/Monitoring :	20-12-2022
Point of Collection :	PW-5	Date of Receipt :	27-12-2022
Date of Test/Analysis :	27-12-2022 to 04-01-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashna Murari
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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Senior Analyst

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

TEST REPORT

Report No./ULR No. :	TC502523100002532	Date :	03-01-2023
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 / -	Date of Sample Collection/Monitoring :	20-12-2022
Point of Collection :	PW-3	Date of Receipt :	27-12-2022
Date of Test/Analysis :	27-12-2022 to 03-01-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Sunil Chouhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.59	IS 3025 (Part 11) : 1983 RA 2017
2	Hardness (total) [mg/l]	520	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	0.05	IS 3025 (Part 53) : 2003 RA 2019
4	Chloride [mg/l]	389.88	IS 3025 (Part 32) : 1988 RA 2019
5	Total Dissolved Solids [mg/l]	1792	IS 3025 (Part 16) : 1984 RA 2017
6	Magnesium [mg/l]	53.46	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]	365	IS 3025 (Part 24) : 1986 RA 2019

Note:

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

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
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]	0.06	IS 3025 (Part 49) : 1994 RA 2019
13	Alkalinity - T [mg/l]	230	IS 3025 (Part 23) : 1986 RA 2019
14	Suspended Solids [mg/l]	13	IS 3025 (Part 17) : 1984 RA 2017
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]	1805	IS 3025 (part 15) : 1984 RA 2019

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Senior Analyst

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

TEST REPORT

Report No./ULR No. :	100002532	Date :	03-01-2023
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 / -	Date of Sample Collection/Monitoring :	20-12-2022
Point of Collection :	PW-3	Date of Receipt :	27-12-2022
Date of Test/Analysis :	27-12-2022 to 03-01-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashna Murari
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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TEST REPORT

Report No./ULR No. :	TC502523100002534	Date :	03-01-2023
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 / -	Date of Sample Collection/Monitoring :	20-12-2022
Point of Collection :	PW-4	Date of Receipt :	27-12-2022
Date of Test/Analysis :	27-12-2022 to 03-01-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Sunil Chouhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.85	IS 3025 (Part 11) : 1983 RA 2017
2	Hardness (total) [mg/l]	470	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]	349.89	IS 3025 (Part 32) : 1986 RA 2019
5	Total Dissolved Solids [mg/l]	1710	IS 3025 (Part 16) : 1984 RA 2017
6	Magnesium [mg/l]	46.17	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]	371	IS 3025 (Part 24) : 1986 RA 2019

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Email : marketinglab@teamtesthouse.com

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
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]	0.11	IS 3025 (Part 49) : 1994 RA 2019
13	Alkalinity - T [mg/l]	230	IS 3025 (Part 23) : 1986 RA 2019
14	Suspended Solids [mg/l]	10	IS 3025 (Part 17) : 1984 RA 2017
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]	1720	IS 3025 (part 15) : 1984 RA 2019

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Senior Analyst

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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	100002534	Date :	03-01-2023
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 / -	Date of Sample Collection/Monitoring :	20-12-2022
Point of Collection :	PW-4	Date of Receipt :	27-12-2022
Date of Test/Analysis :	27-12-2022 to 03-01-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashna Murari
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

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

TEST REPORT

Report No./ULR No. :	TC502523100002536	Date :	03-01-2023
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 / -	Date of Sample Collection/Monitoring :	20-12-2022
Point of Collection :	PW-6	Date of Receipt :	27-12-2022
Date of Test/Analysis :	27-12-2022 to 03-01-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Sunil Chouhan	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.92	IS 3025 (Part 11) : 1983 RA 2017
2	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]	339.89	IS 3025 (Part 32) : 1988 RA 2019
5	Total Dissolved Solids [mg/l]	1751	IS 3025 (Part 16) : 1984 RA 2017
6	Magnesium [mg/l]	48.6	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]	378.2	IS 3025 (Part 24) : 1986 RA 2019

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

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
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]	290	IS 3025 (Part 23) : 1986 RA 2019
14	Suspended Solids [mg/l]	8	IS 3025 (Part 17) : 1984 RA 2017
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]	1759	IS 3025 (part 15) : 1984 RA 2019

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Senior Analyst

Authorized Signatory
(Report No: TC502523100002536)



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

TEST REPORT

Report No./ULR No. :	100002536	Date :	03-01-2023
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 / -	Date of Sample Collection/Monitoring :	20-12-2022
Point of Collection :	PW-6	Date of Receipt :	27-12-2022
Date of Test/Analysis :	27-12-2022 to 03-01-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Krashtra Murari
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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Senior Analyst

Authorized Signatory
(Report No: 100002536)



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

TEST REPORT

Report No./ULR No. :	TC502523100000576A	Date :	05-04-2023
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 :	Water / Chemical	Date of Sample Collection/Monitoring :	24-03-2023
Point of Collection :	PW-1	Date of Receipt :	25-03-2023
Date of Test/Analysis :	25-03-2023 to 05-04-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr.	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
1	pH	7.27	IS 3025 (Part 11) : 1983 RA 2017
2	Hardness (total) [mg/l]	490.57	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	0.10	IS 3025 (Part 53) : 2003 RA 2019
4	Chloride [mg/l]	440.29	IS 3025 (Part 32) : 1988 RA 2019
5	Total Dissolved Solids [mg/l]	1839	IS 3025 (Part 16) : 1984 RA 2017
6	Magnesium [mg/l]	41.26	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]	531.25	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

Note:

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Rajesh Maheshwar



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

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
11	Lead [mg/l]	BDL (<0.01)	IS 3025 (Part 47) : 1994 RA 2019
12	Zinc [mg/l]	0.04	IS 3025 (Part 49) : 1994 RA 2019
13	Alkalinity - T [mg/l]	318.72	IS 3025 (Part 23) : 1986 RA 2019
14	Suspended Solids [mg/l]	17	IS 3025 (Part 17) : 1984 RA 2017
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]	1856	IS 3025 (part 15) : 1984 RA 2019

Notes :-

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Balram
Balram Agarwal
Senior Analyst

Rajesh
Rajesh Maheshwan
Authorized Signatory
(Report No: TC502523100000576A)



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TEST REPORT

Report No./ULR No. :	100000576A	Date :	05-04-2023
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 :	Water / Chemical	Date of Sample Collection/Monitoring :	24-03-2023
Point of Collection :	PW-1	Date of Receipt :	25-03-2023
Date of Test/Analysis :	25-03-2023 to 05-04-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr.	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
19	Cobalt (mg/l)	BDL(<0.01)	APHA :2017 :3111- B

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Balram
Balram Agarwal
Senior Analyst

Rajendra
Authorized Signatory
(Report No: 100000576A)



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

TEST REPORT

Report No./ULR No. :	TC502523100000577A	Date :	05-04-2023
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 :	Water / Chemical	Date of Sample Collection/Monitoring :	24-03-2023
Point of Collection :	PW-2	Date of Receipt :	25-03-2023
Date of Test/Analysis :	25-03-2023 to 05-04-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr.	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
1	pH	7.54	IS 3025 (Part 11) : 1983 RA 2017
2	Hardness (total) [mg/l]	462.26	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	0.13	IS 3025 (Part 53) : 2003 RA 2019
4	Chloride [mg/l]	459.43	IS 3025 (Part 32) : 1988 RA 2019
5	Total Dissolved Solids [mg/l]	1713	IS 3025 (Part 16) : 1984 RA 2017
6	Magnesium [mg/l]	36.68	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]	579.3	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

Note:

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

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
11	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2019
12	Zinc [mg/l]	0.07	IS 3025 (Part 49) : 1994 RA 2019
13	Alkalinity - T [mg/l]	276.48	IS 3025 (Part 23) : 1986 RA 2019
14	Suspended Solids [mg/l]	28	IS 3025 (Part 17) : 1984 RA 2017
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]	0.02	IS 3025 (Part 54) : 2003 RA 2019
18	Total Solids [mg/l]	1741	IS 3025 (part 15) : 1984 RA 2019

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Balram
Balram Agarwal
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
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TEST REPORT

Report No./ULR No. :	100000577A	Date :	05-04-2023
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 :	Water / Chemical	Date of Sample Collection/Monitoring :	24-03-2023
Point of Collection :	PW-2	Date of Receipt :	25-03-2023
Date of Test/Analysis :	25-03-2023 to 05-04-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr.	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
19	Cobalt (mg/l)	BDL(<0.01)	APHA :2017 :3111- B

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Balram
Balram Anawat
Senior Analyst

Rajesh
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TEST REPORT

Report No./ULR No. :	TC502523100000578A	Date :	05-04-2023
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 :	Water / Chemical	Date of Sample Collection/Monitoring :	24-03-2023
Point of Collection :	PW-3	Date of Receipt :	25-03-2023
Date of Test/Analysis :	25-03-2023 to 05-04-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr.	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
1	pH	7.37	IS 3025 (Part 11) : 1983 RA 2017
2	Hardness (total) [mg/l]	547.17	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	0.10	IS 3025 (Part 53) : 2003 RA 2019
4	Chloride [mg/l]	373.29	IS 3025 (Part 32) : 1988 RA 2019
5	Total Dissolved Solids [mg/l]	1864	IS 3025 (Part 16) : 1984 RA 2017
6	Magnesium [mg/l]	61.9	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]	382.4	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

Note:

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Email : marketinglab@teamtesthouse.com

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
11	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2019
12	Zinc [mg/l]	0.07	IS 3025 (Part 49) : 1994 RA 2019
13	Alkalinity - T [mg/l]	264.96	IS 3025 (Part 23) : 1986 RA 2019
14	Suspended Solids [mg/l]	16	IS 3025 (Part 17) : 1984 RA 2017
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]	1880	IS 3025 (part 15) : 1984 RA 2019

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Balram
Balram Agarwal
Senior Analyst

Rajesh
Rajesh Maneshwan
Authorized Signatory
(Report No: TC502523100000578A)



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TEST REPORT

Report No./ULR No. :	100000578A	Date :	05-04-2023
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 :	Water / Chemical	Date of Sample Collection/Monitoring :	24-03-2023
Point of Collection :	PW-3	Date of Receipt :	25-03-2023
Date of Test/Analysis :	25-03-2023 to 05-04-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr.	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
19	Cobalt [mg/l]	BDL(<0.01)	APHA :2017 :3111- B

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Balraj Agarwal
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: 100000578A)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523100000579A	Date :	05-04-2023
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 :	Water / Chemical	Date of Sample Collection/Monitoring :	24-03-2023
Point of Collection :	PW-4	Date of Receipt :	25-03-2023
Date of Test/Analysis :	25-03-2023 to 05-04-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr.	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
1	pH	7.09	IS 3025 (Part 11) : 1983 RA 2017
2	Hardness (total) [mg/l]	443.4	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	0.08	IS 3025 (Part 53) : 2003 RA 2019
4	Chloride [mg/l]	392.43	IS 3025 (Part 32) : 1988 RA 2019
5	Total Dissolved Solids [mg/l]	1924	IS 3025 (Part 16) : 1984 RA 2017
6	Magnesium [mg/l]	41.26	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]	392	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

Note:

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

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
11	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2019
12	Zinc [mg/l]	0.05	IS 3025 (Part 49) : 1994 RA 2019
13	Alkalinity - T [mg/l]	195.84	IS 3025 (Part 23) : 1986 RA 2019
14	Suspended Solids [mg/l]	29	IS 3025 (Part 17) : 1984 RA 2017
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]	1953	IS 3025 (part 15) : 1984 RA 2019

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Balran
Balran Agarwal
Senior Analyst

Rajesh
Rajesh Jaisankar
Authorized Signatory
(Report No: TC502523100000579A)



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Report No./ULR No. :	100000579A	Date :	05-04-2023
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 :	Water / Chemical	Date of Sample Collection/Monitoring :	24-03-2023
Point of Collection :	PW-4	Date of Receipt :	25-03-2023
Date of Test/Analysis :	25-03-2023 to 05-04-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr.	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
19	Cobalt [mg/l]	BDL(<0.01)	APHA :2017 :3111- B

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Balram
Balram Agarwal
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: 100000579A)



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TEST REPORT

Report No./ULR No. :	TC502523100000580A	Date :	05-04-2023
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 :	Water / Chemical	Date of Sample Collection/Monitoring :	24-03-2023
Point of Collection :	PW-5	Date of Receipt :	25-03-2023
Date of Test/Analysis :	25-03-2023 to 05-04-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr.	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
1	pH	7.60	IS 3025 (Part 11) : 1983 RA 2017
2	Hardness (total) [mg/l]	566.04	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	0.10	IS 3025 (Part 53) : 2003 RA 2019
4	Chloride [mg/l]	440.29	IS 3025 (Part 32) : 1988 RA 2019
5	Total Dissolved Solids [mg/l]	1746	IS 3025 (Part 16) : 1984 RA 2017
6	Magnesium [mg/l]	45.85	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]	511.1	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

Note:

Continue to next page...

Rajesh Maheshwari



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

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
11	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2019
12	Zinc [mg/l]	0.04	IS 3025 (Part 49) : 1994 RA 2019
13	Alkalinity - T [mg/l]	165.12	IS 3025 (Part 23) : 1986 RA 2019
14	Suspended Solids [mg/l]	25	IS 3025 (Part 17) : 1984 RA 2017
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]	1771	IS 3025 (part 15) : 1984 RA 2019

Notes :-

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Balram
Balram Agarwal
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523100000580A)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	100000580A	Date :	05-04-2023
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 :	Water / Chemical	Date of Sample Collection/Monitoring :	24-03-2023
Point of Collection :	PW-5	Date of Receipt :	25-03-2023
Date of Test/Analysis :	25-03-2023 to 05-04-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr.	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
19	Cobalt [mg/l]	BDL(<0.01)	APHA :2017 :3111- B

Notes :-

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Baba
Senior Analyst

Raj
Authorized Signatory
(Report No: 100000580A)



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TEST REPORT

Report No./ULR No. :	TC502523100000581A	Date :	05-04-2023
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 :	Water / Chemical	Date of Sample Collection/Monitoring :	24-03-2023
Point of Collection :	PW-6	Date of Receipt :	25-03-2023
Date of Test/Analysis :	25-03-2023 to 05-04-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr.	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
1	pH	7.53	IS 3025 (Part 11) : 1983 RA 2017
2	Hardness (total) [mg/l]	575.47	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	0.08	IS 3025 (Part 53) : 2003 RA 2019
4	Chloride [mg/l]	363.72	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]	55.02	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]	350	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

Note:

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Rajendra Mangarwan



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

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
11	Lead [mg/l]	BDL (<0.01)	IS 3025 (Part 47) : 1994 RA 2019
12	Zinc [mg/l]	0.04	IS 3025 (Part 49) : 1994 RA 2019
13	Alkalinity - T [mg/l]	276.48	IS 3025 (Part 23) : 1986 RA 2019
14	Suspended Solids [mg/l]	16	IS 3025 (Part 17) : 1984 RA 2017
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]	1905	IS 3025 (part 15) : 1984 RA 2019

Notes >

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Balran
Senior Analyst

Raj
Rajesh Manojanwan
Authorized Signatory
(Report No: TC502523100000581A)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	100000581A	Date :	05-04-2023
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 :	Water / Chemical	Date of Sample Collection/Monitoring :	24-03-2023
Point of Collection :	PW-6	Date of Receipt :	25-03-2023
Date of Test/Analysis :	25-03-2023 to 05-04-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr.	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
19	Cobalt [mg/l]	BDL(<0.01)	APHA :2017 :3111- B

Notes :-

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Balram
Senior Analyst

Neelam
Authorized Signatory
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Annexure XIV



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TEST REPORT

Report No./ULR No. :	TC502522600002083	Date :	21-10-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	11-10-2022
Point of Collection :	Bamania Kalan Village	Date of Receipt :	12-10-2022
Date of Test/Analysis :	12-10-2022 to 21-10-2022	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)]	52.3	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	42.6	IS 9989	45

Notes :-

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Pulak
Pulak Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwan
(Report No: TC502522600002083)



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TEST REPORT

Report No./ULR No. :	TC502522600002084	Date :	21-10-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	11-10-2022
Point of Collection :	Sindesar Khurd Village	Date of Receipt :	12-10-2022
Date of Test/Analysis :	12-10-2022 to 21-10-2022	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)]	53.2	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	41.7	IS 9989	45

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maneshwar
Authorized Signatory
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TEST REPORT

Report No./ULR No. :	TC502522600002085	Date :	21-10-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	11-10-2022
Point of Collection :	Rajpura Village	Date of Receipt :	12-10-2022
Date of Test/Analysis :	12-10-2022 to 21-10-2022	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)]	51.9	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	42.3	IS 9989	45

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajeshwan
Authorized Signatory
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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522600002086	Date :	21-10-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	11-10-2022
Point of Collection :	Mine Area Boundary in NE Direction (Industrial Area)	Date of Receipt :	12-10-2022
Date of Test/Analysis :	12-10-2022 to 21-10-2022	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)]	60.7	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	52.5	IS 9989	65

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory

(Report No: TC502522600002086)



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TEST REPORT

Report No./ULR No. :	TC502522600002087	Date :	21-10-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	10-10-2022
Point of Collection :	Near Endline (Acquired Area)-Industrial Area	Date of Receipt :	12-10-2022
Date of Test/Analysis :	12-10-2022 to 21-10-2022	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)]	59.7	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	50.3	IS 9989	65

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Indreshwar
Authorized Signatory
(Report No: TC502522600002087)



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

TEST REPORT

Report No./ULR No. :	TC502522600002088	Date :	21-10-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	10-10-2022
Point of Collection :	Near Tailing Dam	Date of Receipt :	12-10-2022
Date of Test/Analysis :	12-10-2022 to 21-10-2022	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)]	53.6	IS 9989	65

Notes :-

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Purni Mal Yogi
Senior Analyst

Rakesh Maheshwan
Authorized Signatory
(Report No: TC502522600002088)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522600002321	Date :	02-12-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	15-11-2022
Point of Collection :	Bamania Kalan Village	Date of Receipt :	23-11-2022
Date of Test/Analysis :	23-11-2022 to 02-12-2022	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)]	54.5	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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Sunil Kumar
Senior Analyst

Rajesh Maheshwari
Authorized Signatory

(Report No: TC502522600002321)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522600002322	Date :	02-12-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	15-11-2022
Point of Collection :	Sindesar Khurd Village	Date of Receipt :	23-11-2022
Date of Test/Analysis :	23-11-2022 to 02-12-2022	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)]	54.8	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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Sunil Kumar

Rajesh Maheshwari
(Report No: TC502522600002322)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522600002323	Date :	02-12-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	15-11-2022
Point of Collection :	Rajpura Village	Date of Receipt :	23-11-2022
Date of Test/Analysis :	23-11-2022 to 02-12-2022	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)]	53.7	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	40.3	IS 9989	45

Notes :-

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Sunil Kumar

Rajesh Mishra
(Report No: TC502522600002323)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522600002324	Date :	02-12-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	16-11-2022
Point of Collection :	Mine Area Boundary in NE Direction (Industrial Area)	Date of Receipt :	23-11-2022
Date of Test/Analysis :	23-11-2022 to 02-12-2022	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)]	66.4	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	52.0	IS 9989	65

Notes :-

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Sunil Kumar
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522600002324)



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

TEST REPORT

Report No./ULR No. :	TC502522600002325	Date :	02-12-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Darba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	16-11-2022
Point of Collection :	Near Endline (Acquired Area)-Industrial Area	Date of Receipt :	23-11-2022
Date of Test/Analysis :	23-11-2022 to 02-12-2022	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)]	67.4	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	52.2	IS 9989	65

Notes :-

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Senior Analyst
Sunil Kumar

Authorized Signatory
(Report No: TC502522600002325)



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TEST REPORT

Report No./ULR No. :	TC502522600002326	Date :	02-12-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	16-11-2022
Point of Collection :	Near Tailing Dam	Date of Receipt :	23-11-2022
Date of Test/Analysis :	23-11-2022 to 02-12-2022	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)]	62.5	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	52.6	IS 9989	65

Notes :-

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Sunil Kumar

Rajesh Kumar
Authorized Signatory
(Report No: TC502522600002326)



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TEST REPORT

Report No./ULR No. :	TC502522600002567	Date :	31-12-2022
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 :	19-12-2022
Point of Collection :	Bamania Kalan Village	Date of Receipt :	27-12-2022
Date of Test/Analysis :	27-12-2022 to 31-12-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krushna 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)]	52.4	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	42.2	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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Puran Mal Yogi
Senior Analyst

Rajesh Maneswar
Authorized Signatory
(Report No: TC502522600002567)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522600002568	Date :	31-12-2022
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 :	19-12-2022
Point of Collection :	Sindesar Khurd Village	Date of Receipt :	27-12-2022
Date of Test/Analysis :	27-12-2022 to 31-12-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashtra 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)]	53.4	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	41.1	IS 9989	45

Notes :-

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Purni Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522600002568)



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TEST REPORT

Report No./JLR No. :	TC502522600002569	Date :	31-12-2022
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 :	19-12-2022
Point of Collection :	Rajpura Village	Date of Receipt :	27-12-2022
Date of Test/Analysis :	27-12-2022 to 31-12-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashtra 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)]	52.8	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	43.5	IS 9989	45

Notes :-

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Puran
Puran Mal Yogi
Senior Analyst

Rajesh
Rajesh Maneshwar
Authorized Signatory
(Report No: TC502522600002569)



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

TEST REPORT

Report No./ULR No. :	TC502522600002571	Date :	31-12-2022
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 :	20-12-2022
Point of Collection :	Near Encline (Acquired Area)-Industrial Area	Date of Receipt :	27-12-2022
Date of Test/Analysis :	27-12-2022 to 31-12-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashtra 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)]	62.6	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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Puran
Puran Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522600002571)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522600002572	Date :	31-12-2022
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 :	20-12-2022
Point of Collection :	Near Tailing Dam	Date of Receipt :	27-12-2022
Date of Test/Analysis :	27-12-2022 to 31-12-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashna 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)]	61.4	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	52.2	IS 9989	65

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522600002572)



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

TEST REPORT

Report No./ULR No. :	TC502523600000095	Date :	30-01-2023
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 :	17-01-2023
Point of Collection :	Bamania Kalan Village	Date of Receipt :	20-01-2023
Date of Test/Analysis :	20-01-2023 to 30-01-2023	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)]	51.7	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	40.5	IS 9989	45

Notes :-

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Purnan Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: TC502523600000095)



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TEST REPORT

Report No./ULR No. :	TC502523600000096	Date :	30-01-2023
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 :	17-01-2023
Point of Collection :	Sindesar Khurd Village	Date of Receipt :	20-01-2023
Date of Test/Analysis :	20-01-2023 to 30-01-2023	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)]	50.9	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	41.6	IS 9989	45

Notes :-

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

Purni Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523600000096)



TEAM TEST HOUSE

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



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523600000097	Date :	30-01-2023
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 :	17-01-2023
Point of Collection :	Rajpura Village	Date of Receipt :	20-01-2023
Date of Test/Analysis :	20-01-2023 to 30-01-2023	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)]	42.4	IS 9989	45

Notes :-

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

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523600000097)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523600000098	Date :	30-01-2023
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 :	16-01-2023
Point of Collection :	Mine Area Boundary in NE Direction (Industrial Area)	Date of Receipt :	20-01-2023
Date of Test/Analysis :	20-01-2023 to 30-01-2023	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)]	65.1	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	55.3	IS 9989	65

Notes :-

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Puran
Puran Mai Yogi
Senior Analyst

Rajesh
Rajesh Maheshwan
Authorized Signatory
(Report No: TC502523600000098)



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TEST REPORT

Report No./ULR No. :	TC502523600000099	Date :	30-01-2023
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 :	16-01-2023
Point of Collection :	Near Encline (Acquired Area)-Industrial Area	Date of Receipt :	20-01-2023
Date of Test/Analysis :	20-01-2023 to 30-01-2023	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)]	64.6	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	54.7	IS 9989	65

Notes :-

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Purni Mal Yogi
Senior Analyst


Rajesh Maheshwan
Authorized Signatory
(Report No: TC502523600000099)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523600000100	Date :	30-01-2023
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 :	17-01-2023
Point of Collection :	Near Tailing Dam	Date of Receipt :	20-01-2023
Date of Test/Analysis :	20-01-2023 to 30-01-2023	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)]	64.3	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	56.2	IS 9989	65

Notes :-

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Purushottam Singh
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523600000100)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523600000309	Date :	09-03-2023
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 :	24-02-2023 12:38 to 25-02-2023 12:38
Point of Collection :	Bamania Kalan Village	Date of Receipt :	28-02-2023
Date of Test/Analysis :	28-02-2023 to 09-03-2023	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)]	52.4	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	42.9	IS 9989	45

Notes :-

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

Authorized Signatory
(Report No: TC502523600000309)



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TEST REPORT

Report No./ULR No. :	TC502523600000310	Date :	09-03-2023
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 :	24-02-2023 12:40 to 25-02-2023 12:41
Point of Collection :	Sindesar Khurd Village	Date of Receipt :	28-02-2023
Date of Test/Analysis :	28-02-2023 to 09-03-2023	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)]	51.5	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	41.5	IS 9989	45

Notes :-

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

Authorized Signatory
(Report No: TC502523600000310)



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TEST REPORT

Report No./ULR No. :	TC502523600000311	Date :	09-03-2023
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 :	24-02-2023 12:42 to 25-02-2023 12:42
Point of Collection :	Rajpura Village	Date of Receipt :	28-02-2023
Date of Test/Analysis :	28-02-2023 to 09-03-2023	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)]	50.4	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	40.6	IS 9989	45

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: TC502523600000311)



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TEST REPORT

Report No./ULR No. :	TC502523600000312	Date :	09-03-2023
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 :	23-02-2023 12:44 to 24-02-2023 12:44
Point of Collection :	Mine Area Boundary in NE Direction (Industrial Area)	Date of Receipt :	28-02-2023
Date of Test/Analysis :	28-02-2023 to 09-03-2023	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)]	64.5	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	55.2	IS 9989	65

Notes :-

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

Authorized Signatory
(Report No: TC502523600000312)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523600000313	Date :	09-03-2023
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 :	23-02-2023 12:49 to 24-02-2023 12:49
Point of Collection :	Near Endline (Acquired Area)-Industrial Area	Date of Receipt :	28-02-2023
Date of Test/Analysis :	28-02-2023 to 09-03-2023	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)]	62.1	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	53.5	IS 9989	65

Notes :-

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

Authorized Signatory
(Report No: TC502523600000313)



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TEST REPORT

Report No./ULR No. :	TC502523600000314	Date :	09-03-2023
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 :	23-02-2023 12:50 to 24-02-2023 12:50
Point of Collection :	Near Tailing Dam	Date of Receipt :	28-02-2023
Date of Test/Analysis :	28-02-2023 to 09-03-2023	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)]	62.9	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	54.9	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

Authorized Signatory
(Report No: TC502523600000314)



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TEST REPORT

Report No./ULR No. :	TC502523600000628	Date :	03-04-2023
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 :	20-03-2023 12:48 to 21-03-2023 12:48
Point of Collection :	Bamania Kalan Village	Date of Receipt :	25-03-2023
Date of Test/Analysis :	25-03-2023 to 03-04-2023	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)]	50.6	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	40.7	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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P. Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523600000628)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523600000629	Date :	03-04-2023
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 :	21-03-2023 12:49 to 22-03-2023 12:49
Point of Collection :	Sindesar Khurd Village	Date of Receipt :	25-03-2023
Date of Test/Analysis :	25-03-2023 to 03-04-2023	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)]	53.4	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	42.3	IS 9989	45

Notes :-

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

P. Mar Yogi
Senior Analyst

Rajesh Mathanwan
Authorized Signatory
(Report No: TC502523600000629)



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

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TEST REPORT

Report No./ULR No. :	TC502523600000630	Date :	03-04-2023
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 :	20-03-2023 13:12 to 21-03-2023 13:12
Point of Collection :	Rajpura Village	Date of Receipt :	25-03-2023
Date of Test/Analysis :	25-03-2023 to 03-04-2023	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)]	51.2	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	40.6	IS 9989	45

Notes :-

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Senior Analyst


Authorized Signatory
(Report No: TC502523600000630)



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

TEST REPORT

Report No./ULR No. :	TC502523600000631	Date :	03-04-2023
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 :	21-03-2023 13:13 to 22-03-2023 13:13
Point of Collection :	Mine Area Boundary in NE Direction (Industrial Area)	Date of Receipt :	25-03-2023
Date of Test/Analysis :	25-03-2023 to 03-04-2023	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)]	62.6	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	52.5	IS 9989	65

Notes :-

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Senior Analyst **Al Yogi**


Authorized Signatory
(Report No: TC502523600000631)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523600000632	Date :	03-04-2023
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 :	21-03-2023 15:33 to 22-03-2023 15:33
Point of Collection :	Near Endline (Acquired Area)-Industrial Area	Date of Receipt :	25-03-2023
Date of Test/Analysis :	25-03-2023 to 03-04-2023	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)]	64.3	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	53.7	IS 9989	65

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523600000632)



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TEST REPORT

Report No./ULR No. :	TC502523600000633	Date :	03-04-2023
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Dist. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	21-03-2023 15:34 to 22-03-2023 15:34
Point of Collection :	Near Tailing Dam	Date of Receipt :	25-03-2023
Date of Test/Analysis :	25-03-2023 to 03-04-2023	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)]	62.5	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	51.3	IS 9989	65

Notes :-

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Purush Mahtani
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523600000633)

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

SHIKSHA SAMBAL:

RDC Bestowed with Shiksha Vibushan Bhamashah Award for its exemplary work in the field of education. The Bhamashah Award is a state level award presented for contribution in the field of education



- A total of 761 Diwali classes conducted: total enrolled students: 861. Telephonic follow ups 650, Home visits: 111.
- Handholding Visits to newly added Bamaniya Kalan and Khadbamaniya Sen. Sec School.
- Career Counselling sessions
- Winter Learning Camps at 5 schools targeting 390 students.
- Employee Volunteering: Active volunteering done by 6 Employees. Equal participation from RD and DSC Employees. Total manhours: 9 Hours



RDC COMMUNITY CONNECT

Community connect drive : RDM Senior management connects with community at Mataji Kheda village

On the occasion of Diwali RDC Senior management along with CSR team along discussed about various other initiatives being done at the village. 20+ community members participated



"Special volunteering drive by RDM Employees" on the occasion of Diwali:

Distribution of winter wear by with RDM senior management and employees as their voluntary contribution on the occasion of Diwali at Anganwadi centers and primary school in Khedia and Ambawadi. 100+ children benefitted



SAKHI

- Sakhi Stall displaying all ME products displayed in front of Vedanta Vihar, inaugurated by Ladies club president, Sales of more than INR 29K done.

- Exposure visit of Skilling project's Microfinance students done to Sunariya Kheda stitching center



- Visit of Sunariya Kheda Stitching center by wife of Directorate General of Mines and CSR team members.
- Mamta ji, one of the SAKHI members working as Business Sakhi earned Rs. 2190 as net profit. Jyoti Ji, from Udalpura working in the cadre of Business Sakhi and earned Rs. 3100 as net profit



SAMADHAN

World Animal Day : On 4th October, it was observed at Lathiyakhedi village with 50+ community members. Awareness session on widespread outbreak of Lumpy Skin Disease was conducted along with active participation also observed from female farmers



KHUSHI

- **BAL DIWAS :** On Children's day 14th November, a week-long celebration through Bal Diwas was organized with children in 40 Anganwadi center across all 3 blocks Rajsamand, Railmagra and Khamnor. Fun activities like sports races, poetry recitations, poster making competitions and similar activities done with 351 children. Active participation observed from parents/local guardians of children, village leaders/PRI members and other community members.



COMMUNITY ASSET CREATION

- **Support towards Animal Welfare; Bhoomi Pujan for Animal Shed construction work at Rajpura:** For the Ruminants and other stray animals of the village and to ensure special care and a proper feeding area in especially during extreme weather conditions for them to stay healthy. A Bhumi Pujan was organized to auspiciously start off the work for Animal Shed



Major Infrastructure works have been successfully completed

- Makanpuriya Community center
- SK Cremation area
- Railmagra Old bus stand repair work
- Waste water pit Rajpura and Railmagra
- School infra : Gawardi school toilet and Khadbamaniya School toilet
- School Painting and Renovation works: Banjaro ka Kheda and SK School



SAFETY

- Conducted safety training at Anganwadi and Govt. girls' college and covered topics like Fire safety, Road safety, Health safety and Lumpy disease in cattle were covered. The participants actively participated in the training and put forward their doubts and suggestions. 70+ People participated in the session. Convergence with JR College Railmagra for conducting fire safety session.
- Organized a Safety session in JR College Railmagra to spread awareness on: Road safety, Health safety, Fire safety. A total of 250 students were benefitted and they were provided knowledge on how To Protect themselves and the society fearlessly. Take full care while walking



VOLUNTEERING INITIATIVES

30+ Executives including their family members actively participated in this noble cause of painting a nearby Govt school. RDC senior management supported the team for the same. From these more than 50 students were benefitted



CSR Community runs for a cause

At RDC, participation was observed from **200 + beneficiaries** of Shiksha Sambal, SAKHI and Skilling project to support Vedanta Delhi Half Marathon -VDHM run for zero hunger cause



ZINC KAUSHAL

- Placement drive : 16 Assistant electrician trade trainees placed in Perfect Solutions pvt ltd and Mothersons Sumi at avg pack of INR 21K
- Exposure visit for Assistant Electrician Batch was organised at ITI College, Rajsamand.
- Exposure visit for General Duty Assistant Batch was organised at RK Hospital, Rajsamand.
- A safety session was organised at Government School Mehanduriya.
- 02 Alumni Guest lecture took place this month in Assistant Electrician Batch.
- Meeting with JR College Officials.



SUCCESS STORY: Amarpura Girl Breaking Barriers



NAME	SANKARI GADRI
VILLAGE	AMARPURA
TRADE	UNARMED SECURITY GUARD
ORGANIZATION	SPYBOT SECURITIES
LOCATION	JAIPUR
DESIGNATION	SECURITY GUARD.
SALARY	10,500/- PM + Food + Accommodation

Thanking HZL and ACF she says, “I always wanted to be an independent woman but due to my family conditions I couldn’t complete my studies. Then I got to know about Zinc Kaushal Kendra and took admission in Unarmed Security Guard trade. The team here is full of energy and adds a lot of value to the table. The training here adds a lot to my knowledge and enhanced my skills. I feel privileged to be part to be this training program.”

SPORTS

Support extended to community level Kabbadi tournament organised at Rajpura and 28 teams from all nearby gram panchayats participated. 250+ players from across nearby villages participated in this event. **Winning team: Sindesar Khurd village**



Rajpura school district level kabaddi tournament opening program: Support extended to about 1200 players who participated from nearby districts



District level sports tournament organised at Naya Dariba (for Primary school students). A series of different sports activities took place in this tournament. More than 600 players across district including RDC's nearby area participated in the tournament.



Q4 FY23 – CSR RDC HIGHLIGHTS

Safety

- Communities stepping forward on 34th National Road Safety Week: Active participation observed from **600+ beneficiaries** across operational villages of RDC's areas through various awareness sessions, nukkad natak at community level, campaigns like safety rallies, oath taking sessions and Roko Toko campaign
- CPR and first aid training organised in 4 Shiksha Sambal Govt schools – Rajpura, Gawardi, Khadbamaniya and Bamaniya Kalan. 300+ students & 20+ Govt. teachers trained and covered.



Zinc Kaushal

- Mobilisation of trainees: 116 trainees FTM through diff strategies. New mobilisation strategy FTM of March introduced : **Rozgar Rath** covering all core villages by course details displayed on vehicle followed by announcements of the same.
- RD Unit Head, Pradhan Railmagra, Sarpanch Khadbamaniya visit to Zinc Kaushal Kendra on National Youth Day 12th Jan 2023, 50+ trainees participated, various activities like cycle rally, poster competition, nukkad natak etc done
- Safety audit done at Zinc Kaushal by RD Safety Head
- Kickstarted new year with Graduation ceremony of Unarmed Security guard batch, Assistant Electrician Trade and General Duty Assistant batch
- **First ever 100% girls batch for unarmed security guard** : This is a unique batch is going on under un-armed training where all 22 students are girls. They are belonging to nearby villages. Trainees as part of their training **interacted with SP Rajsamand, Mr. Sudheer Joshi. Convocation ceremony of first ever female USG batch:** Distribution of course completion certificate to USG trainees, Unit Head RDC, Dept Unit Head Zinc, Head CSR HZL motivated the trainees to keep pursuing their dreams at every stage in life.
- **Kaushal Apke Dwar initiative AIM:** Building more connection with the community, ZKK Team visited Kotdi and did many activities on this day like Alumni meet, parent's felicitation, Certificate distribution, Door to Door mobilization, awareness program by

gather group of people at a place, Ongoing trainees home visit, Canopy mobilization etc

- Guest session by Head External Affairs RDC Mr Paresh Gajjar: A session on road safety and various do and don'ts to be taken care of while driving two/four wheelers and while walking on roads.
- Electrician batch 16- did free electrical camp at JR College Railmagra
- Placement drive details : Orientation & Campus Interviews were conducted by the State team of CreditAccess Grameen Limited. Trainees from Tally and MFE trainees. Campus Interview was conducted by Mr. Rajeev (State HR Head Arohan Finance)

S.No	Trade	Male	Female	Total Placed
1	Unarmed Security Guard	0	19	19
2	Micro-finance Executive	4	7	11
3	Tally	1	8	9
4	General Duty Assistant	0	12	12
5	Assistant Electrician	16	4	20

- Appreciation Letter by Govt. Senior secondary school, Railmagra for conducting fire safety, and personal hygiene session and Sarpanch of Operational village Bamaniya Kalan for electrical camp conducted by trainees.
- As an effort towards better visibility , trainees appreciated and thanked HZL for all the support received during the entire course.



प्रधान ने किया कौशल कार्यक्रम का निरीक्षण

राजस्थान न्यूज नेटवर्क

rajasthannews.com

रेलमग्रा. प्रधान आरक्षक प्रतापसिंह चौहान ने रजपुरा पट्टीबा पार्स के हेड नाथसिंह चौधरी व खड़बामनिया सरपंच प्रतिनिधि रतनसिंह रामावत के साथ रेलमग्रा बिक व अंतर्गत फाउंडेशन द्वारा चलाए जा रहे कौशल केंद्र का निरीक्षण कर दिशा-निर्देश दिए। इस दौरान उन्होंने संस्थान द्वारा चलाए जा रहे कोर्स व कार्यक्रमों की जानकारी भी ली।

संस्था प्रभारी चिन्मय जैन ने बताया कि संस्थान द्वारा अब तक 1300 से अधिक युवाओं



राष्ट्रिय रेली को हल्की दिशाकर रवाना कर रहे प्रभारी।

को रोजगार से जोड़कर कुशल बनाने का कार्य किया है। अंत में प्रधान द्वारा बिक कौशल केंद्र व मोडल स्कूल रेलमग्रा द्वारा आयोजित युवा राष्ट्रिय रेली को हरी झंडी दिखाकर रवाना किया। इस

PLACEMENTS

20th Annual Skills India Fair conducted online placement drive for students of the successful placement of the ongoing training. The trainees were placed in the various units of different organizations.

22 CDA personnel got placed in Government Hospital, GDA, Amritsar, India, Mumbai and Noida.

17 Assistant Electricians got placed in various electrical companies like M/s. M/s. M/s.

16 female personnel got placed in various companies like M/s. M/s. M/s.



Electrical Batch 16 did free electrical maintenance camp at JR college in Railmagra block.



Appreciation Certificate by JR College for conducting electrical camp

Sakhi

- Awareness workshop on Menstruation & Hygiene (Sanitary Napkin Distribution) with 36 females and adolescent girls at operational villages Railmagra (15 women) and Gawardi (21 women)
- Other highlight:** With continuous efforts, initiated SHG formation in core village Sindesar Khurd, mobilising 20 women from the village. Further will be provided training on stitching from the month of Feb. 2023.
- Stall setup at Mela ground to market the product produced by the women under LEDP program and ME products with the objective to promote Business Sakhi model. The stall was sanctioned by BDO, Railmagra



- Sakhi Utsav celebration on 23rd March 2023 on the theme FY23 Embrace Equity. 1000+ Sakhi women and 35 Females executives from RDC participated in the event. Chief guests were.

DDM NABARD – Ms Vasundhara

DSC Head, RD Mines Unit head, CCO RDC, Head External Affairs RDC.

Sarpanches from operational villages Bamaniyan Kalan, Sindesar Kalan, Khad Bamaniya and Railmagra and Mehaduriya Up Sarpanch.



Microenterprise

- Livelihood Entrepreneurship Development Programme: Convergence with NABARD: Under the LEDP scheme Sakhi women are get training for livelihood entrepreneur development program.
- First ever batch Completed Handicraft Training Programme at Railmagra with 30 SHG members.
- Stitching center update: Stitching center females received a bulk order of 300 Traditional Rajputi Poshak paving way for better opportunities.
- Organized second batch of LEDP program at Kotdi with 30 members participated; second batch of LEDP NABARD, was successfully completed in Kotdi
- 2 SHGs formed in Sindesar Khurd, the field was closed since 2019.



SAMADHAN

- Extending support towards developing goat cluster in core village Shivpura. 30+ families from the village along with SHG women, with the aim of facilitating livelihood opportunities in the village
- Regular training providing on rearing and breeding and AI of goat by technical experts.

Training

Month/Year	Type of Training	No. of Training	No. Of Participant
Jan.2023	Agriculture	05	188
Jan. 2023	USD	02	70
16 Jan.2023	Read Safety	01	52
Total		07	255



Integrated Livestock Development Centre

Artificial Insemination Jan. 2023

S.No.	Type of AI	Targets	Achievements
1	Scrotal	117	138
2	Conventional	44	60
3	Rectal	9	8

Female Cattle Fries	41
Goat Kids Ewes	6



- Animal Health Camps Organized with Animal Husbandry Department in 15 Villages Covering 5700 Cattle,
- 4 Training Sessions on sustainable Agriculture Organized in core villages, 120 Farmers Trained
- Nursery Raising for Summer Vegetable cultivation Done with 29 Farmers
- FPO BOD Meeting Organized, Business of 41 Lakhs Done with Net profit of 2.19 Lacs



KHUSHI



Anganwadi Day celebration

Observed across 509 AWC across these blocks. Various fun games were organised for children and these events were graced by their parents as well. The major agenda is to curate the concept of awareness with fun games with respect to various services being made available in the Anganwadis apart from Pre-school education.



- Pre-School Education assessment: done for boys-girls age group 3-4 and 4-6 yrs age.

Community Asset Creations

Recently constructed Gawardi School toilet and classrooms which will aid towards better sanitation facilities at the school and access to proper education facilities. This facility will benefit 300+ students.



Extending support towards Education

School Renovation and painting work completed at Banjaro Ka kheda Govt School and Sindesar Khurd Govt. school.



Completed following major infra works

- Shivpura CC road
- Shopura Cremation Shed
- Dariba Sansera CC Road
- Sindesar Kala Health Sub Center Boundary Wall)

Bhumi Pujan Naya Dariba Bitumen Road work: To start construction work of the road on an auspicious note, Bhumi Pujan was done with Pradhan and other PRI members.



STATE OF THE ART Model bus stand Railmagra and Boundary wall at Community place inaugurated.

Chief Guests

- Sh CP Joshi- Speaker of Rajasthan Legislative Assembly
- Dist Collector Sh. Nilabh Saxena and ACBEO
- SDM, Railmagra : Sh. Mansukh Ram Damor
- Pradhan Panchayat Samiti Railmagra, Sh. Aditya Pratap Singh Chauhan
- Up Pradhan Railmagra, Sh. Kamlesh Choudhary
- Head CSR HZL , Ms. Anupam Nidhi, CEO-IBU RDC, Sh Vinod Jangir, RD Head Sh. Nathu Singh Choudhary
- Sarpanch Railmagra Smt Asha Jat and other esteemed dignitaries from Govt, along with PRI members

Salient feature of Model Bus stand

- Solar based electric supply.
- Partnering with Panchayat and Police admin



Special visits CSR

- Chairperson HZL and Non-Exec Director Vedanta Ltd Ms. Priya interacted with Sakhi women and entrepreneurs from nearby areas of Rajasthan and unveiled the brand DAICHI. She also visited Morra Nandghar at RDC, interacted with Anganwadi workers, viewed some best practices followed across HZL Nandghar's, launched community safety module and had an interactive session with the children there.



- HZL CFO along with RDC CFO visited Zinc Kaushal Kendra and FPO input shop at RDC. Extremely positive feedback received for all the work being done on ground. Interaction round with trainees at Skilling center and motivated the trainees to keep pursuing their dreams through grit and determination.



Shiksha Sambal

- Glimpses from language workshop at Rajpura and Gawardi sr sec govt. school. Meeting with school principal and staff with respect to fellowship model took place.
- Fun activities with children at both schools curating the concept of learning through creativity and games.
- Additional teachers also provided in Sindesar Khurd, Raghunathpura , Sarvariya khedi, Mataji Kheda, Dariba for Govt Primary schools



- 2 Volunteers deployed in schools from nearby community RDC from Jan. 30, 2023. They are focusing on 4 low performing schools, working on main topics in SEM Subjects in line the upcoming board examinations. Total classes taken for class 9 and 10 are 106 classes and 80 classes respectively.

Special volunteering drive by RDM senior management: Stationery kit distribution in nearby 4 govt schools Raghunathpura, KantiyaKheda, Shopura and govt school near Vedanta Vihar colony as a noble act to support children coming from poverty-stricken background. 105 students benefitted.







REGISTERED AD


HINDUSTAN ZINC
 Zinc & Silver of India

HZL/SKM/ENV/2022/EC Comp/126

November 24th, 2022

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-2022 to September 2022.

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-2022 to September 2022.


The copy of above compliance report is also being sent in soft format through email to (rocz.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 Director,
Ministry of Environment, Forests & Climate
Change, GoI, Regional Office (Central
Region), 5th Floor, Kendriya Bhawan,
Sector-H, Aliganj,
Lucknow (UP) - 226024.
3. The Member Secretary,
Rajasthan State Pollution Control Board,
4th, Institutional Area, Jhalana Doongari,
Jaipur (Raj.) - 302004.
4. Regional Officer,
Rajasthan State Pollution Control Board,
Old Building of District Excise Office,
Kalalwati, Rajnagar,
Rajsamand (Raj.)-313324.

राजसमंद. नाथद्वारा

सांकेतिक • खंड • राजसमंद

दैनिक भास्कर

उदयपुर, बुधवार 06 जून, 2018

रैलमार्ग • राजसमंद • टेलमार्ग

(भतीजा, भतीजा)

अंतरा

कर सजा दिलाई।

श्री : चारभुजा धाम क्षेत्र की 14 श्रद्धालु नाथालिन डा निवासो नारायणसिंह न प्रियका 29 जनवरी फुसला का घुमने जाने ने गए। तीनों ही लाकाडी साथ लेकर देपुर नाथद्वारा आधान के मंदिर गए, जहां था। उसके बाद चारों ही उनके दर्शन करने गए। जहां कोलाह में दुष्कर्म करने के लिए उनकी खान कली गई। ना वापस देवनारायण मंदिर कोलाह ने दुष्कर्म किया। उन देवलान पीड़ित श्री आ और नारायणसिंह के ने किया।



हिन्दुस्तान जिंक लिमिटेड

रजि. कारिका बसाव नवन, उदयपुर-313 004
PDA No. 0204-8004000, CIN-L27204RJ1998PLC001206, www.hindustan.com

सिन्दर खुर लेड-जिंक खनन परियोजना ग्राम सिन्दर खुर, तहसील रेलमार्ग, जिला राजसमंद (राज.) पर्यावरण स्वीकृति प्राप्ति सूचना बाबत

सर्वसाधारण को सूचित किया जाता है कि भारत सरकार के वन एवं पर्यावरण मंत्रालय, नई दिल्ली के वन क्रमांक J-11015/72017(A/WM), दिनांक 31.05.2018 के द्वारा हिन्दुस्तान जिंक लिमिटेड को सिन्दर खुर खदान एम.एन. 02/7/85, खनन पट्टा क्षेत्र 199.84 हेक्टेयर) की वर्तमान उत्पादन क्षमता 45 लाख मेट्रिक टन प्रतिवर्ष लेड-जिंक खनिज अथवा उत्पादन से बचाकर 80 लाख मेट्रिक टन लेड-जिंक प्रतिवर्ष खनिज अथवा उत्पादन एवं लेड-जिंक अथवा सजावटीकरण 50 लाख मेट्रिक टन प्रतिवर्ष से बचाकर 65 लाख मेट्रिक टन प्रतिवर्ष वन पर्यावरण स्वीकृति प्रदान कर दी गई है।

इसकी प्रति राजस्थान राज्य प्रमुख नियंत्रण मंडल, जयपुर कार्यालय में उपलब्ध है। साथ ही वन एवं पर्यावरण मंत्रालय, नई दिल्ली की वेबसाइट <http://mefor.mca.gov.in> पर भी उपलब्ध है।

राजसमंद

सुनिता देव

सिन्दर खुर मंडल

दैनिक भास्कर

अपनों को अर्पित कीजिए
शब्दों के श्रद्धा सुमन



राजसमंद-9672912813

नाथद्वारा

देवगढ़-9783627200

कामलगढ़

रेलमार्ग-941492

CONTACT

1009444, 8504068122
राजस्थान पत्रिका, उदयपुर, बुधवार, 06.06.2018

rajasthanpatrika.com
राजस्थान पत्रिका, उदयपुर, बुधवार, 06.06.2018



हिन्दुस्तान जिंक लिमिटेड

रजि. कारिका बसाव नवन, उदयपुर-313 004
PDA No. 0204-8004000, CIN-L27204RJ1998PLC001206, www.hindustan.com

सिन्दर खुर लेड-जिंक खनन परियोजना ग्राम सिन्दर खुर, तहसील रेलमार्ग, जिला राजसमंद (राज.) पर्यावरण स्वीकृति प्राप्ति सूचना बाबत

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राजसमंद

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