

REGISTERED AD

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

November 24<sup>th</sup>, 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.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*  
*Khurd Mine*  
Unit Head & Authorized Signatory  
Hindustan Zinc Limited  
P.O. Dariba, Teh. Railmagra, Distt. Rajsamand, Rajasthan - 313 211  
Sindesar Khurd Mines, HZL  
Rajsamand (Raj.)

Safely, Healthily, Environmentally (SHE)

Hindustan Zinc Limited, Registered Office : Yashad Bhawan, Udaipur-313 004, Rajasthan, INDIA.  
[www.hzlindia.com](http://www.hzlindia.com) CIN : L27204RJ1966PLC001208  
Sindesar Khurd Mine, P.O. Dariba, Teh. Railmagra, Distt. Rajsamand, Rajasthan - 313 211  
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**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,  
4<sup>th</sup>, Institutional Area, Jhalana Doongari,  
Jaipur (Raj.) - 302004.
4. Regional Officer,  
Rajasthan State Pollution Control Board,  
Old Building of District Excise Office,  
Kalawati, 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  
(April'2022 to September'2022)**

**November 2022**

Compliance Report of Environmental Clearance

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

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

**Period of Compliance:** April 2022 to September 2022.

Sr No	Condition	Compliance Status
<b>A. Specific Condition</b>		
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 <b>Annexure – I</b> .
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 <b>Annexure -II</b> .

6	<p>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&amp;CC and its Regional office every six-months.</p>	<p>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.</p> <p>Report of slope and stability monitoring is being submitted along with half year compliance report. Latest report is enclosed as <b>Annexure - III.</b></p>
7	<p>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.</p>	<p>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.</p>
8	<p>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.</p>	<p>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 <b>Annexure – IV.</b></p>
9	<p>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.</p>	<p>Ecological survey in the surrounding area has been carries out. No impact due to mining operation was observed. Regular monitoring/ study is being done. Copy enclosed as <b>Annexure – IV.</b></p>
10	<p>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.</p>	<p>Occupational Health Study of employees conducted &amp; 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.</p>

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,  Permanent water sprinkler is provided for main haulage road. Transfer points, loading and unloading points of Ores and roads is being ensured. Dust Extraction systems have been installed in Crushers. All the conveyors are covered to minimise the dust emission. Trial with addition of reagent with water to improve dust suppression has been carried out and sprinkling of the same is being ensured regularly. Heavy duty road sweepers are deployed permanently, and regular road sweeping is being ensured. Avenue plantation along with roads and other areas of mines ensured to mitigate impact of dust.  Network of conveyors has been established and shaft has been commissioned, installation of additional crusher in underground is ensured to reduce vehicle movement for Ore movement and dust emission due to vehicle movement.</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 &amp; CC.</p>	<p>We are exploring possibility of monitoring the same. We have also submitted request for exemption of this condition to MoEF&amp;CC by our letter No. SKM/ENV/2020/02/396 dated 19.02.2020. Copy enclosed as <b>Annexure – V.</b></p>

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14	<p>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.</p>	<p>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 than 3 times of PWD rates for construction and land more than existing area for each family of village. Note on progress is enclosed as <b>Annexure – VI</b>.</p>
15	<p>Implementation of conservation of all Schedule-I species as per revised plan submitted to DFO-Rajsamand for approval vide letter no. SKM/ENV/DFO/2018/01 dated 09.01.2018 with budgetary provision of Rs. 2 Crore. The Proponent shall implement the Wildlife Conservation Plan along with the funds so allocated with consultation of Chief Wild Life Warden of the State Govt. A copy of action plan shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office, Lucknow and the Chief Wild Life Warden of the State Govt.</p>	<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 1<sup>st</sup> 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<sup>th</sup> 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 <b>Annexure- VII</b>.</p>
16	<p>Implementation of action plan on remedial and preventive actions for lead contamination on human health for the community in consultation with experts with budgetary provisions of Rs 50 Lakhs for conducting various programs in connection to Lead.</p>	<p>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.</p>

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		These community RO are further having a distribution network of 16 Water ATMs in surrounding villages, which are provided for meeting the safe drinking water requirement of surrounding villages/ community.
17	PP shall run an awareness campaign on sanitation for women and utilization of Sanitary Napkin and also to distribute the Sanitary Napkin/pads to the women and provide the training for proper disposal.	Being Complied, We have collaborated with "Manjari Foundation" under Sakhi project along with medical professional of Govt. Health Dept., who have conducted awareness camps in surrounding villages covering women and school female students. The same is under progress in other villages and sanitary napkins provided. Copy of latest awareness campaign is enclosed as <b>Annexure- VIII</b> .
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 <b>Annexure - IX</b> .

<b>B.</b>	<b>Standard conditions.</b>	
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 m3/day of inflow of water due to mining operation has been obtained from CGWB. Renewal for 121 m3/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 m3/day during proposed expansion of mine is also obtained. Copy enclosed as <b>Annexure – X.</b>
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 <b>Annex– XI.</b>

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, 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, 3 nos. online monitoring stations installed at site results of the same are being displayed at the main gate. Apart from this Monthly AAQ monitoring from 5 locations from core and buffer zone is being done as per AAQ notification 2009. Water sprinkling on loading and unloading points, transfer points is being done. Permanent water sprinklers are provided at Crushers with venturi spray. Haul roads are being wetted through mobile water sprinkler. Conveyors are covered. Transfer points have dust control system. In addition to above, sprinkling of water though 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 <b>Annexure – XII</b>.</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, 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 <b>Annexure – XIII</b>.</p>

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11	<p>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 and 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.</p>	<p>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.</p>
12	<p>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.</p>	<p>Complied, Regular monitoring is carried out &amp; reports are being submitted. Copy enclosed as <b>Annexure – XIII</b>.</p>
13	<p>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.</p>	<p>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.</p>

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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 <b>Annexure - XIV</b>.</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 <b>Annex - XV</b>.</p>

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18	<p>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.</p>	<p>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.</p> <p>Report of slope and stability monitoring is being submitted along with half year compliance report. Latest report is enclosed as <b>Annex-III</b>.</p>
19	<p>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.</p>	<p>Noted and shall be complied,</p> <p>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.</p>
20	<p>The top soil, if any, shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation. The over burden (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only and it should not be kept active for a long period of time. The maximum height of the dumps shall not exceed 60m and width 20 m and overall slope of the dumps shall be maintained to 45°. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas, use of geo textiles shall be undertaken for stabilization of the dump. The entire excavated area shall be backfilled and afforested. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office on six monthly basis.</p>	<p>Being underground mine and is in operation. No top soil removal is envisaged. However necessary precautions will take care for the same.</p> <p>At present waste dump is in active stage. Prescribed height, width and angle is being maintained. Inactive waste dump will be reclaimed in scientific manner. Waste rock generated from mining is being used for filling of mine voids. Waste remained during closure will be filled back in mine voids at the time of mine closure voids at the time of mine closure and scientific reclamation by plantation of suitable species will be ensured at waste dump.</p>

21	<p>Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, mineral and OB dumps to prevent run off of water and flow of sediments directly into the river and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly. The drains, settling tanks and check dams of appropriate size, gradient and length shall be constructed both around the mine pit and over burden dumps to prevent run off of water and flow of sediments directly into the river and other water bodies and sump capacity should be designed keeping 50 safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material. Sedimentation pits shall be constructed at the corners of the garland drains and desilted at regular intervals.</p>	<p>No natural watercourse is obstructed during mining operations. Catch drains for mine working and mineral dump provided to prevent water run-off and flow of sediments directly natural water bodies. Water is being recycled after necessary precaution of settling of silt material through retaining wall /garland drain and desiltation pit. Zero liquid discharge is being ensured.</p>
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 Schlaris), karanj (Ficus Pinnata), Silver oak, Shisham, Ber (Ziziphus mauritiana), Kachnar, dhaak (Butea monosperma), Amaltas (cassia fistula), Bauhnia (Bauhinia purpurea), etc.</p>
23	<p>Project Proponent shall follow the mitigation measures provided in Office Memorandum No. Z-11013/57/2014-IA.II (M), dated 29<sup>th</sup> 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 1<sup>st</sup> 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 26<sup>th</sup> 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 <b>Annexure- VII</b>.</p>

Compliance Report of Environmental Clearance

26	<p>As per the Company Act, the CSR cost should be 2 % of average net profit of last three years. Hence CSR expenses should be as per the Company Act/Rule for the Socio Economic Development of the neighbourhood Habitats which could be planned and executed by the Project Proponent more systematically based on the 'Need based door to door survey' by established Social Institutes/Workers. The report shall be submitted to the Ministry of Environment, Forest and Climate Change and Its Regional Office on six monthly basis.</p>	<p>Being Complied, 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.</p> <p>As per SOP of base line survey (Need based door to door) needs to be done every 3 years "Latest survey was done through "KPMG" organization in current financial year. Final report is awaited. Basis the findings and suggestions appropriate actions will be taken. <b>Annexure – XVI.</b></p>
27	<p>The Ministry has issued a circular vide no. 22-65/2017-IA.III, dated 1st May2018 on Corporate Environment Responsibility (CER). Accordingly, PP shall comply the circular w.r.t. details of budget and its activities.</p>	<p>Noted and being complied with.</p>
28	<p>Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.</p>	<p>Being Complied, 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.</p>
29	<p>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.</p>	<p>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.</p>
30	<p>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.</p>	<p>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.</p>

**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 till Sept'22 Rs 1,09,58,784/-
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 31.05.2022 is enclosed as <b>Annexure – XVII.</b>
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 <a href="http://www.environmentclearance.nic.in">www.environmentclearance.nic.in</a> 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 <b>Annexure – XVIII</b> .
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.fores@rajasthan.gov.in  
क्रमांक: पत्रा ( ) संख्या / उद्धरण / 2017-18 / 3741 दिनांक: 22-9-17

निमित्त :-

यूनिट हेड  
सिन्देसर खुर्द माइन  
हिन्दुस्तान चिंक लिंग  
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)

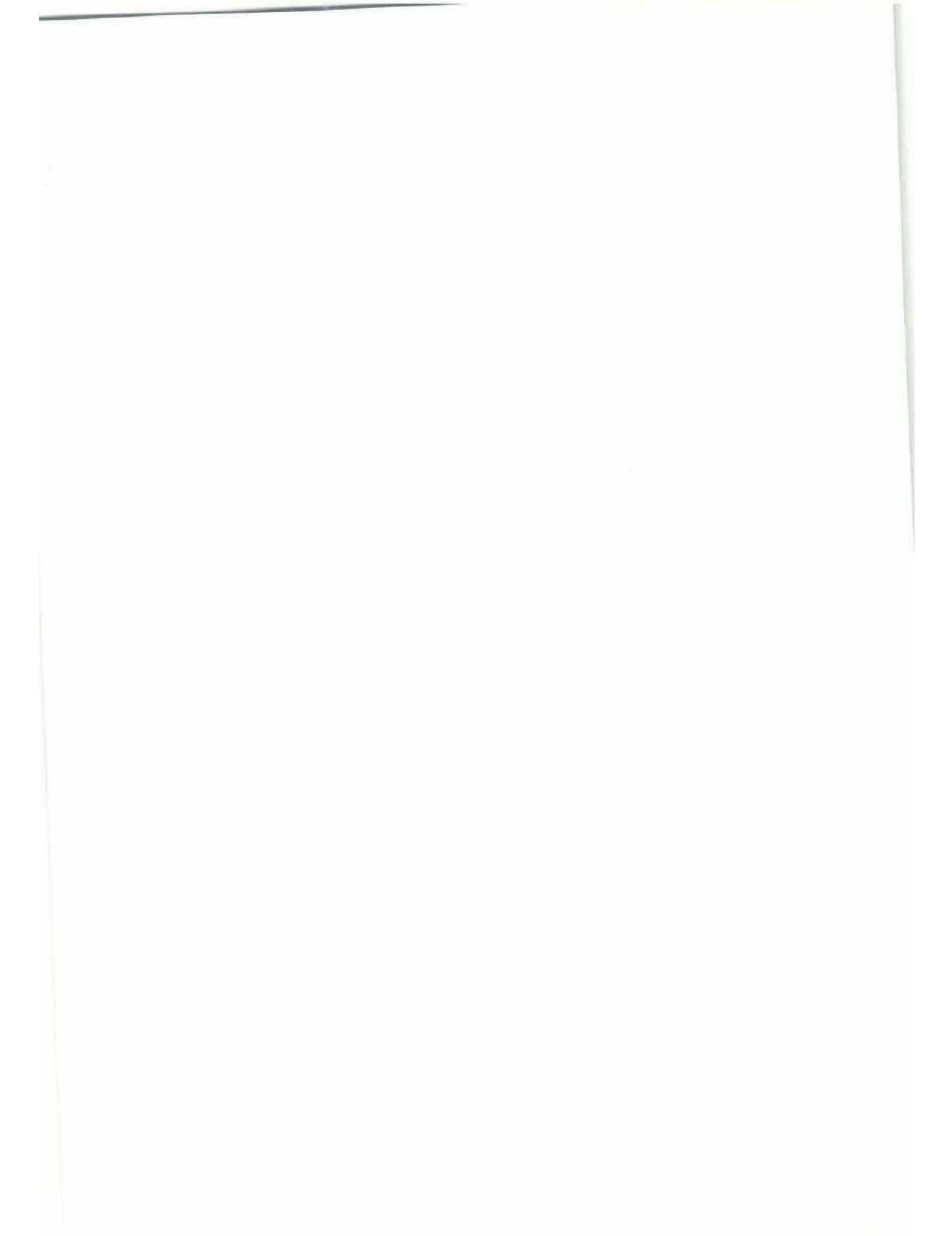
संदर्भ :- आपका पत्राक HZL/SKM/Env/2017/08/42 Date : 29.08.2017 के क्रम में।

उपरोक्त विषयान्तर्गत संदर्भित पत्र में वर्णित एम.एल. नम्बर 07/95 सिन्देसर खुर्द माइन के घरी तरफ 10 किमी<sup>0</sup> की पश्चिमी से National Park, Sanctuary, Biosphere Reserve, Wild life corridor, Tiger/Elephant Reserves in Core and Buffer Zone क्षेत्र नहीं पड़ता है।

  
(किशोर सिंह मेहता)

उप वन संरक्षक

राजसमन्द





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

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**TEST REPORT**

Report No./ULR No.:	TC502522400001125	Date :	05-05-2022
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	27-04-2022
Point of Collection	Near Tailing Dam (24°57.495'N, 74°08.842'E)	Date of Receipt :	28-04-2022
Date of Test/Analysis :	28-04-2022 to 05-05-2022	Sampling Plan :	IS 5182:2000 (Part 14) RA 2014
Quantity of Sample	-	Sample Collected By	Sitaram jangid
Unit's representative :	Mr Anurag Khandelwal	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 <sup>3</sup> ]	340	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	13.06	IS 5182 (Part 6) : 2006 Reaffirmed 2017	60.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	238.24	IS 5182 (Part 4) : 1999 RA 2019	-
4	Particulate Matter (PM2.5) [microgram/m <sup>3</sup> ]	41.09	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	5.07	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	76.71	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Puran Mai Yogi  
Senior Analyst

Ref:-  
Ravish Kishanwar  
Authorized Signatory  
(Report No: TC502522400001125 )

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

JBNUDH

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ISO 14001:2015

ISO 45001:2018 (OH&S)

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 Email : [marketinglab@teamtesthouse.com](mailto:marketinglab@teamtesthouse.com)

### TEST REPORT

Report No./JLR No.:	TC5025224D0001124	Date :	05-05-2022
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 :	26-04-2022
Point of Collection :	Near Endline (Acquired Area)-Industrial Area (25°00'118"N, 074°08'710"E)	Date of Receipt :	28-04-2022
Date of Test/Analysis :	28-04-2022 to 05-05-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Anurag Khandelwal	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 <sup>3</sup> ]	350	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	12.46	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	177.93	IS 5182 (Part 4) 1999 RA 2019	-
4	Particulate Matter (PM2.5) [microgram/m <sup>3</sup> ]	34.36	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	2.76	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	70.1	IS 5182 (Part 23) 2006 RA 2017	100.00

Notes :-

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Puran Mat Yogi  
 Senior Analyst

(Signature)  
**Rakesh Maheshwari**  
 Authorized Signatory  
 (Report No: TC5025224D0001124 )



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**TEST REPORT**

Report No./ULR No.:	TC502522400001123	Date:	05-05-2022
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:	26-04-2022
Point of Collection:	Mine Area Boundary in NE Direction (Industrial Area) (25°00'381"N, 074°08'.804"E)	Date of Receipt:	28-04-2022
Data of Test/Analysis:	28-04-2022 to 05-05-2022	Sampling Plan:	IS 5182:2000(Part 14)RA 2014
Quantity of Sample:	-	Sample Collected By:	Sitaram Jangid
Unit's representative:	Mr. Anurag Khandelwal	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 <sup>3</sup> ]	360	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	12.17	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	189.03	IS 5182 (Part 4) : 1999 RA 2019	-
4	Particulate Matter (PM2.5) [microgram/m <sup>3</sup> ]	32.4	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	4.73	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	75.75	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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JLc  
**Puran Mat Yogi**  
 Senior Analyst

*[Signature]*  
 Authorized Signatory  
 (Report No: TC502522400001123 )

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**TEST REPORT**

Report No./ULR No.:	TC502522400001122	Date :	05-05-2022
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 :	25-04-2022
Point of Collection	Rajpura Village, Sindesar Khurd Mine (Residential Area) (24°58'33.1"N, 074°07'7.46"E)	Date of Receipt :	28-04-2022
Date of Test/Analysis :	28-04-2022 to 05-05-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram Jangid
Unit's representative :	Mr. Anurag Khandelwal	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 <sup>3</sup> ]	370	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	13.69	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	149.62	IS 5182 (Part 4) : 1999 RA 2019	-
4	Particulate Matter (PM2.5) [microgram/m <sup>3</sup> ]	31.58	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	3.04	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	73.94	IS 5182 (Part 23) : 2006 RA 2017	100.00

Notes :-

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Senior Analyst

Rajesh Maheshwari  
 Authorized Signatory  
 (Report No: TC502522400001122 )



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**TEST REPORT**

Report No./ULR No.:	TC502522400001121	Date :	05-05-2022
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 :	25-04-2022
Point of Collection	Sindesar Khurd Village (Residential Area) (25°00'31.1"N, 074°08.372"E)	Date of Receipt :	28-04-2022
Date of Test/Analysis :	28-04-2022 to 05-05-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram Jangid
Unit's representative :	Mr Anurag Khandolwal	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 <sup>3</sup> ]	310	TTH/AQAM/08	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	16.61	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	221.54	IS 5182 (Part 4) : 1999 RA 2019	-
4	Particulate Matter (PM2.5) [microgram/m <sup>3</sup> ]	44.71	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	4.42	IS 5182 (Part 2) : 2001 RA 2017	60.00
6	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	75.46	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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*Puran Mal Yogi*  
Senior Analyst

*Rajat*  
Authorized Signatory  
(Report No. TC502522400001121 )



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**TEST REPORT**

Report No./ULR No.	TC502522400001120	Date :	05-05-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Danba - 313211, Distt. Raigarh (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	25-04-2022
Point of Collection :	Bamania Kalon Village (Residential Area) (25°02'31.4"N, 074°09'30.9"E)	Date of Receipt :	28-04-2022
Date of Test/Analysis :	28-04-2022 to 05-05-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Anurag Khandelwal	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 <sup>3</sup> ]	340	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	15.09	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	194.49	IS 5182 (Part 4) : 1999 RA 2019	-
4	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	37.82	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	3.95	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]	76.95	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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/...../  
Puran Mat Yogi  
Senior Analyst

Rakesh Maheshwari  
Authorized Signatory  
(Report No: TC502522400001120 )



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**TEST REPORT**

Report No./ULR No.:	TC502522400001326	Date :	01-06-2022
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:	19-05-2022
Point of Collection:	Near Tailing Dam (24°57.495'N, 74°08.842'E)	Date of Receipt:	24-05-2022
Date of Test/Analysis:	24-05-2022 to 01-06-2022	Sampling Plan:	IS 5182:2000(Part 14)RA 2014
Quantity of Sample:	-	Sample Collected By:	Krishna Murari
Unit's representative:	Mr Anurag Khandelwal	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 <sup>3</sup> ]	270	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	11.35	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	245.12	IS 5182 (Part 4) : 1999 RA 2019	-
4	Particulate Matter (PM2.5) [microgram/m <sup>3</sup> ]	42.12	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	3.7	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	82.96	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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*Puran Mai Yogi*  
Senior Analyst

*(Signature)*  
Authorized Signatory  
(Report No: TC502522400001326 )



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**TEST REPORT**

Report No./ULR No.:	TC502522400001325	Date :	01-06-2022
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 :	19-05-2022
Point of Collection	Near Encline (Acquired Area)-Industrial Area (25°00'118"N, 074°08'710"E)	Date of Receipt :	24-05-2022
Date of Test/Analysis :	24-05-2022 to 01-06-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Anurag Khandelwal	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 <sup>3</sup> ]	280	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	10.16	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	156.62	IS 5182 (Part 4) : 1999 RA 2019	-
4	Particulate Matter (PM2.5) [microgram/m <sup>3</sup> ]	28.61	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	4.36	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	75.64	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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*Puran Mai Yogi*  
Senior Analyst

*Rakesh Maneswaran*  
Authorized Signatory  
(Report No: TC502522400001325)



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**TEST REPORT**

Report No./ULR No.	TC502522400001324	Date :	01-06-2022
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 :	19-05-2022
Point of Collection	Mine Area Boundary in NE Direction (Industrial Area) (25°00'38.1"N, 074°08'80.4"E)	Date of Receipt :	24-05-2022
Date of Test/Analysis :	24-05-2022 to 01-06-2022	Sampling Plan :	IS:5182:2000(Part 16)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krishna Murari
Unit's representative :	Mr Anurag Khandelwal	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 <sup>3</sup> ]	310	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	12.92	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	152.81	IS 5182 (Part 4) : 1999 RA 2019	-
4	Particulate Matter (PM2.5) [microgram/m <sup>3</sup> ]	29.71	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	3.82	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	66.72	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Puran Mai Yogi  
Senior Analyst

Rajeshwar Singh  
Authorized Signatory  
(Report No: TC502522400001324 )



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**TEST REPORT**

Report No./ULR No.:	TC502522400001323	Date :	01-06-2022
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 :	18-05-2022
Point of Collection :	Rajpura Village, Sindesar Khurd Mine (Residential Area) (24°58'33.1"N, 074°07.746"E)	Date of Receipt :	24-05-2022
Date of Test/Analysis :	24-05-2022 to 01-06-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krishna Murari
Unit's representative :	Mr Anurag Khandelwal	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 <sup>3</sup> ]	310	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	12.61	IS 5182 (Part 6) : 2006 Reaffirmed 2017	60.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	152.51	IS 5182 (Part 4) : 1999 RA 2019	-
4	Particulate Matter (PM2.5) [microgram/m <sup>3</sup> ]	30.04	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	5.27	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM-10) [microgram/m <sup>3</sup> ]	67.71	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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*Puran Mai Yogi*  
Senior Analyst

*Rakesh Mehta*  
Authorized Signatory  
(Report No: TC502522400001323 )



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**TEST REPORT**

Report No./ULR No.:	TC502522400001322	Date :	01-06-2022
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 :	18-05-2022
Point of Collection :	Sindesar Khurd Village (Residential Area) (25°00'311"N, 074°08'372"E)	Date of Receipt :	24-05-2022
Date of Test/Analysis :	24-05-2022 to 01-06-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krishna Murari
Unit's representative :	Mr Anurag Khandelwal	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 <sup>3</sup> ]	290	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	15.03	IS 5182 (Part 5) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	214.48	IS 5182 (Part 4) : 1999 RA 2019	-
4	Particulate Matter (PM2.5) [microgram/m <sup>3</sup> ]	28.33	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	4.68	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	74.27	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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*Puran Mai Yogi*  
Puran Mai Yogi  
Senior Analyst

*6/1*  
Authorized Signatory  
(Report No: TC502522400001322 )



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 Email : marketinglab@teamtesthouse.com

**TEST REPORT**

Report No./ULR No.:	TC502522400001321	Date :	01-06-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Deriba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring	18-05-2022
Point of Collection	Bamania Kalan Village (Residential Area) (25°02'31.4"N, 074°09'30.9"E)	Date of Receipt :	24-05-2022
Date of Test/Analysis :	24-05-2022 to 01-06-2022	Sampling Plan :	IS 5182:2000 (Part 14) RA 2014
Quantity of Sample :	-	Sample Collected By :	Krishna Murari
Unit's representative :	Mr Anurag Khandelwal	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 <sup>3</sup> ]	310	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	14.47	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	174.34	IS 5182 (Part 4) : 1999 RA 2019	-
4	Particulate Matter (PM2.5) [microgram/m <sup>3</sup> ]	36.93	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	4.38	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	71.95	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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*Puran Mai Yogi*  
 Puran Mai Yogi  
 Senior Analyst

*Rakesh Manoharwar*  
 Rakesh Manoharwar  
 Authorized Signatory  
 (Report No: TC502522400001321 )

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**TEST REPORT**

Report No./JLR No.:	TC502522400001711	Date :	04-07-2022
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 :	20-06-2022
Point of Collection :	Near Encline (Acquired Area)-Industrial Area (25°00'118"N, 074°08'.710"E)	Date of Receipt :	24-06-2022
Date of Test/Analysis :	24-06-2022 to 04-07-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Anurag Khandelwal	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 <sup>3</sup> ]	310	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	12.07	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	174.5	IS 5182 (Part 4) : 1999 RA 2019	-
4	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	30.69	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	5.2	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	69.26	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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**Puran Mai Yogi**  
 Senior Analyst

**Rajesh Maheshwari**  
 Authorized Signatory  
 (Report No: TC502522400001711 )



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**TEST REPORT**

Report No./ULR No.:	TC502522400001710	Date :	04-07-2022
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 :	20-06-2022
Point of Collection	Mine Area Boundary in NE Direction (Industrial Area) (25°00'38.1"N, 074°08.804"E)	Date of Receipt :	24-06-2022
Date of Test/Analysis :	24-06-2022 to 04-07-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Anurag Khandelwal	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 <sup>3</sup> ]	260	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	12.07	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	208.82	IS 5182 (Part 4) : 1999 RA 2019	-
4	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	31.25	IS 5182 (Part 24) : 2019	80.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	3.32	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	69.53	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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*Puran Mai Yogi*  
 Senior Analyst

*Rajesh Maheshwari*  
 Authorized Signatory  
 (Report No: TC502522400001710 )



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

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

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Email : [marketinglab@teamtesthouse.com](mailto:marketinglab@teamtesthouse.com)

**TEST REPORT**

Report No./ULR No.:	TC502522400001708	Date.:	04-07-2022
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:	18-06-2022
Point of Collection:	Sindesar Khurd Village (Residential Area) (25°00'31.1"N,074°08.372"E)	Date of Receipt:	24-06-2022
Date of Test/Analysis:	24-06-2022 to 04-07-2022	Sampling Plan:	IS 5182:2000(Part 1-2)RA 2014
Quantity of Sample:	-	Sample Collected By:	Vimal Kumar Yadav
Unit's representative:	Mr Anurag Khandelwal	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 <sup>3</sup> ]	290	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	12.2	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	158.79	IS 5182 (Part 4) : 1999 RA 2019	-
4	Particulate Matter (PM2.5) [microgram/m <sup>3</sup> ]	29.86	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	5.07	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	65.1	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Puran Mai Yogi  
Senior Analyst

Rajesh Maheshwari  
Authorized Signatory

(Report No: TC502522400001708.)



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

JDA/UDH

**TEST REPORT**

Report No./ULR No. :	TC502522400001707	Date :	04-07-2022
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 :	18-06-2022
Point of Collection	Bamania Kalan Village (Residential Area) (25°02'31.4"N, 074°09.309"E)	Date of Receipt :	24-06-2022
Date of Test/Analysis :	24-06-2022 to 04-07-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Anurag Khandelwal	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 <sup>3</sup> ]	280	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	12.16	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	187.93	IS 5182 (Part 4) : 1999 RA 2019	-
4	Particulate Matter (PM 2.5) [microgram/m <sup>3</sup> ]	27.87	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	5	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	70.73	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Puran Mai Yogi  
Senior Analyst

Rajesh Maheshwari  
Authorized Signatory  
(Report No: TC502522400001707 )



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TEST REPORT

Report No./ULR No.:	TC502522400001709	Date :	07-07-2022
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 :	18-06-2022
Point of Collection :	Rajpura Village, Sindesar Khurd Mine (Residential Area) (24°58'33.1"N, 074°07'7.48"E)	Date of Receipt :	24-06-2022
Date of Test/Analysis :	24-06-2022 to 04-07-2022	Sampling Plan :	IS 5182:2000(Part 14) RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Anurag Khandelwal	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 <sup>3</sup> ]	310	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	12.17	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	175.51	IS 5182 (Part 4) : 1999 RA 2019	-
4	Particulate Matter (PM2.5) [microgram/m <sup>3</sup> ]	30.18	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	4.83	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	72.67	IS 5182 (Part 23)-2006 RA 2017	100.00

NINETY-

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Senior **Rutan Mal Yogi**

Rajesh Maheswari  
Siddiqui  
(Report No: TC502522400001739)



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**TEST REPORT**

Report No./JLR No.:	TC502522400001712	Date :	04-07-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Deriba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	19-06-2022
Point of Collection :	Near Tailling Dam (24°57.495'N, 74°08.842'E)	Date of Receipt :	24-06-2022
Date of Test/Analysis :	24-06-2022 to 04-07-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Anumag Khandelwal	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 <sup>3</sup> ]	290	TTH/AQOM/08	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	12.36	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	184.96	IS 5182 (Part 4) : 1999 RA 2019	-
4	Particulate Matter (PM2.5) [microgram/m <sup>3</sup> ]	32.74	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	5.47	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	65	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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*[Signature]*  
**Puran Mal Yogi**  
 Senior Analyst

*[Signature]*  
**Rajesh Maheshwari**  
 Authorized Signatory

(Report No: TC502522400001712)



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**TEST REPORT**

Report No./ULR No.:	TC502522400002176	Date :	04-08-2022
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	29-07-2022
Point of Collection :	Near Tailing Dam (24°57'49.6"N, 74°08'.842"E)	Date of Receipt :	30-07-2022
Date of Test/Analysis :	30-07-2022 to 04-08-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By	Vimal Kumar Yadav
Unit's representative :	Mr Anurag Khandelwal	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 <sup>3</sup> ]	230	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	12.45	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	146.19	IS 5182 (Part 4) : 1999 RA 2019	-
4	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	19.76	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	4.08	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	48.65	IS 5182 (Part 23)-2008 RA 2017	100.00

Notes :-

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**Puran Mal Yogi**  
 Senior Analyst

**Rajesh Maheshwari**  
 Authorized Signatory  
 (Report No: TC502522400002176 )



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TEST REPORT

Report No./ULR No.	TC502522400002175	Date :	04-08-2022
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 :	28-07-2022
Point of Collection	Near Encline (Acquired Area)-Industrial Area (25°00'118"E, 074°08.710"N)	Date of Receipt :	30-07-2022
Date of Test/Analysis	30-07-2022 to 04-08-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Anurag Khandelwal	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 <sup>3</sup> ]	220	TTH/AQPM/08	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	12.4	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	111.08	IS 5182 (Part 4) : 1999 RA 2019	-
4	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	18.55	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	4.08	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM <sub>10</sub> ) [microgram/m <sup>3</sup> ]	33.58	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Purushottam Yogi  
 Senior Analyst

Rajesh Maheshwari  
 Authorized Signatory  
 (Report No: TC502522400002175 )



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**TEST REPORT**

Report No./ULR No.:	TC502522400002174	Date:	04-08-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Daniba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit:	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring:	28-07-2022
Point of Collection	Mine Area Boundary in NE Direction (Industrial Area) (25°00'38.1"N, 074°08.804"E)	Date of Receipt:	30-07-2022
Date of Test/Analysis:	30-07-2022 to 04-08-2022	Sampling Plan:	IS 5182:2000(Part 14) RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative:	Mr Anurag Khandelwal	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 <sup>3</sup> ]	210	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	12.46	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	93.61	IS 5182 (Part 4) : 1999 RA 2019	-
4	Particulate Matter (PM2.5) [microgram/m <sup>3</sup> ]	17.89	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	3.84	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	43.03	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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*Puran Mai Yogi*

Senior Analyst

*Rajesh Maheshwari*  
Authorized Signatory  
(Report No: TC502522400002174 )



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Email : [marketinglab@teamtesthouse.com](mailto:marketinglab@teamtesthouse.com)

**TEST REPORT**

Report No./JLR No :	TC502522400002173	Date :	04-08-2022
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 :	29-07-2022
Point of Collection :	Rajpura Village, Sindesar Khurd Mine (Residential Area) (24°58'33.1"N, 074°07.746"E)	Date of Receipt :	30-07-2022
Date of Test/Analysis :	30-07-2022 to 04-08-2022	Sampling Plan :	IS 5182:2009(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Anumag Khandelwal	Condition of Sample :	Fit for testing

**RESULTS**

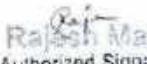
S No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m <sup>3</sup> ]	190	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	12.43	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	114.59	IS 5182 (Part 4) : 1999 RA 2019	-
4	Particulate Matter (PM2.5) [microgram/m <sup>3</sup> ]	16.09	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	4.09	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	42.44	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: TC502522400002173 )



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**TEST REPORT**

Report No./ULR No. :	TC502522400002172	Date :	04-08-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Danba - 313211, Distt. Rajasamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	29-07-2022
Point of Collection :	Sindesar Khurd Village (Residential Area) (25°00'31.1"N, 074°08.372"E)	Date of Receipt :	30-07-2022
Date of Test/Analysis :	30-07-2022 to 04-08-2022	Sampling Plan :	IS 5182:2000(Part 14) RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Anurag Khandelwal	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 <sup>3</sup> ]	210	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	12.42	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	112.68	IS 5182 (Part 4) : 1999 RA 2019	-
4	Particulate Matter (PM2.5) [microgram/m <sup>3</sup> ]	19.77	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	3.82	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	44.46	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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*Puran Mal Yogi*  
 Senior Analyst

*Rajesh Meherewari*  
 Authorized Signatory  
 (Report No: TC502522400002172 )



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**TEST REPORT**

Report No./ULR No.	TC502522400002171	Date :	04-08-2022
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 :	29-07-2022
Point of Collection	Bamania Kalan Village (Residential Area) (25°02'314"N, 074°09'309"E)	Date of Receipt :	30-07-2022
Date of Test/Analysis :	30-07-2022 to 04-08-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Anurag Khandelwal	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 <sup>3</sup> ]	230	TTH/AQOM/08	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	12.69	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	121	IS 5182 (Part 4) : 1999 RA 2019	-
4	Particulate Matter (PM2.5) [microgram/m <sup>3</sup> ]	19.83	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	3.29	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	46.35	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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*Puran Mal Yogi*  
**Puran Mal Yogi**  
 Senior Analyst

*Rakesh Maheshwari*  
**Rakesh Maheshwari**  
 Authorized Signatory  
 (Report No: TC502522400002171)



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

**TEST REPORT**

Report No./ULR No.:	TC502522400002523	Date :	05-09-2022
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:	27-08-2022
Point of Collection:	Near Tailling Dam (24°57'495"N, 74°08'842"E)	Date of Receipt:	31-08-2022
Date of Test/Analysis:	31-08-2022 to 05-09-2022	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/m <sup>3</sup> ]	250	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	13	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	152.27	IS 5182 (Part 4) : 1999 RA 2019	-
4	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	24.75	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	3.44	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	47.98	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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*Rajput*  
 Senior Analyst

*J. S. Patel*  
 Authorized Signatory  
 (Report No: TC502522400002523)



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**TEST REPORT**

Report No./ULR No.:	TC502522400002522	Date:	05-09-2022
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 :	27-08-2022
Point of Collection :	Near Encline (Acquired Area)-Industrial Area (25°00'118"N, 074°08'710"E)	Date of Receipt :	31-08-2022
Date of Test/Analysis :	31-08-2022 to 05-09-2022	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/m <sup>3</sup> ]	210	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	13.17	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	136.14	IS 5182 (Part 4) : 1999 RA 2019	-
4	Particulate Matter (PM2.5) [microgram/m <sup>3</sup> ]	20.08	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	3.25	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	56.23	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst

Authorized Signatory  
(Report No: TC502522400002522 )



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**TEST REPORT**

Report No./ULR No.:	TC502522400002521	Date :	05-09-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Daniba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	27-08-2022
Point of Collection	Mine Area Boundary in NE Direction (Industrial Area) (25°00'38.1"N, 074°08'804"E)	Date of Receipt :	31-08-2022
Date of Test/Analysis :	31-08-2022 to 05-09-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krishna 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/m <sup>3</sup> ]	230	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	10.37	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	119.72	IS 5182 (Part 4) : 1999 RA 2019	-
4	Particulate Matter (PM2.5) [microgram/m <sup>3</sup> ]	17.01	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	3.2	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	43.87	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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*Purushottam Yogi*  
 Purushottam Yogi  
 Senior Analyst

*Rao*  
 Authorized Signatory  
 (Report No: TC502522400002521)



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Email : [marketinglab@teamtesthouse.com](mailto:marketinglab@teamtesthouse.com)

**TEST REPORT**

Report No./JLR No.	TC502522400002520	Date :	05-09-2022
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 :	28-08-2022
Point of Collection :	Rajpura Village, Sindesar Khurd Mine (Residential Area) (24°58'331"N, 074°07'746"E)	Date of Receipt :	31-08-2022
Date of Test/Analysis :	31-08-2022 to 03-09-2022	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]	170	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	10.52	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m3]	127.41	IS 5182 (Part 4) : 1999 RA 2019	-
4	Particulate Matter (PM2.5) [microgram/m3]	23.8	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m3]	2.08	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m3]	44.26	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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*Puran Mai Yogi*  
Puran Mai Yogi  
Senior Analyst

*D. Patel*  
Authorized Signatory  
(Report No: TC502522400002520 )



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**TEST REPORT**

Report No./ULR No.:	TC502522400002519	Date :	05-09-2022
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 :	28-08-2022
Point of Collection :	Sindesar Khurd Village (Residential Area) (25°00'31.1"N, 074°08.372"E)	Date of Receipt :	31-08-2022
Date of Test/Analysis :	31-08-2022 to 03-09-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krishna 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/m <sup>3</sup> ]	180	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	9.85	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	115.34	IS 5182 (Part 4) : 1999 RA 2019	-
4	Particulate Matter (PM2.5) [microgram/m <sup>3</sup> ]	21.91	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	3.29	IS 5182 (Part 2) : 2001 RA 2017	60.00
6	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	55.42	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Purushottam Yogi  
Senior Analyst

K.N. DUKHOPADHYAY  
Authorized Signatory  
(Report No: TC502522400002519 )



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**TEST REPORT**

Report No./ULR No.:	TC502522400002518	Date :	05-09-2022
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 :	28-08-2022
Point of Collection :	Bamania Kalan Village (Residential Area) (25°02'31.4"N, 074°09'30.9"E)	Date of Receipt :	31-08-2022
Date of Test/Analysis :	31-08-2022 to 03-09-2022	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/m <sup>3</sup> ]	240	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	13.05	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	112.77	IS 5182 (Part 4) : 1999 RA 2019	-
4	Particulate Matter (PM 2.5) [microgram/m <sup>3</sup> ]	22.19	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	3.43	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	53.21	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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*Purushottam*  
Purushottam  
Senior Analyst

*K.N. Mukhopadhyay*  
K.N. Mukhopadhyay

Authorized Signatory  
(Report No: TC502522400002518 )



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**TEST REPORT**

Report No./ULR No.:	TC502522400002892	Date :	04-10-2022
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 :	22-09-2022
Point of Collection	Near Tailling Dam (24°57'49.5"N, 74°08'64.2"E)	Date of Receipt :	28-09-2022
Date of Test/Analysis :	28-09-2022 to 04-10-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krishna 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/m <sup>3</sup> ]	290	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	13.55	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	137.12	IS 5182 (Part 4) : 1999 RA 2019	-
4	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	24.42	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	1.78	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	44.81	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst

*Rakesh Mehta*  
 Authorized Signatory  
 (Report No: TC502522400002892 )



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**TEST REPORT**

Report No./JLR No.:	TC502522400002891	Date:	04-10-2022
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 :	22-09-2022
Point of Collection	Near Encline (Acquired Area)-Industrial Area (25°00'118"N, 074°08.710"E)	Date of Receipt :	28-09-2022
Date of Test/Analysis :	28-09-2022 to 04-10-2022	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/m <sup>3</sup> ]	320	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	12.93	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	249.07	IS 5182 (Part 4) : 1999 RA 2019	-
4	Particulate Matter (PM2.5) [microgram/m <sup>3</sup> ]	37.11	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	2.55	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	79.49	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes:-

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Senior Analyst

Authorized Signatory  
(Report No: TC502522400002891.)



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

**TEST REPORT**

Report No./ULR No. :	TC502522400002890	Date :	04-10-2022
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 :	22-09-2022
Point of Collection :	Mine Area Boundary in NE Direction (Industrial Area) (25°00'38.1"N, 074°08.804"E)	Date of Receipt :	28-09-2022
Date of Test/Analysis :	28-09-2022 to 04-10-2022	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/m <sup>3</sup> ]	280	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	12.85	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	220.8	IS 5182 (Part 4) : 1999 RA 2019	-
4	Particulate Matter (PM2.5) [microgram/m <sup>3</sup> ]	33.52	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	2.56	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	63.49	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Krashna Murari  
 Senior Analyst

Rajesh Mehta  
 Authorized Signatory  
 (Report No: TC502522400002890 )



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**TEST REPORT**

Report No./ULR No. :	TC502522400002889	Date :	04-10-2022
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 :	21-09-2022
Point of Collection :	Rajpura Village, Sindesar Khurd Mine (Residential Area) (24°58.331'N, 074°07.748"E)	Date of Receipt :	28-09-2022
Date of Test/Analysis :	28-09-2022 to 04-10-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krishna 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/m <sup>3</sup> ]	270	TTH/AQPM/08	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	12.48	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	137.06	IS 5182 (Part 4) : 1999 RA 2019	-
4	Particulate Matter (PM <sub>2.5</sub> ) [microgram/m <sup>3</sup> ]	23.52	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	1.76	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	41.61	IS 5182 (Part 23)-2006 RA 2017	100.00

**Notes :-**

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**Sushil Kumar**  
Senior Analyst

**Authorized Signatory**  
(Report No: TC502522400002889 )



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**TEST REPORT**

Report No./ULR No.:	TC502522400002888	Date:	04-10-2022
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:	21-09-2022
Point of Collection:	Sindesar Khurd Village (Residential Area) (25°00'31.1"N, 074°08'37.2"E)	Date of Receipt:	28-09-2022
Date of Test/Analysis:	28-09-2022 to 04-10-2022	Sampling Plan:	IS 5182:2000 (Part 14) RA 2014
Quantity of Sample:	-	Sample Collected By:	Krishna Murali
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 <sup>3</sup> ]	250	TTH/AQCM/08	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	12.73	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	166.15	IS 5182 (Part 4) : 1999 RA 2019	-
4	Particulate Matter (PM2.5) [microgram/m <sup>3</sup> ]	33.78	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	2.09	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	57.6	IS 5182 (Part 23)-2008 RA 2017	100.00

Notes :-

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Senior Analyst

  
Authorized Signatory  
(Report No: TC502522400002888 )



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**TEST REPORT**

Report No./JLR No.:	TC502522400002887	Date :	04-10-2022
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 :	21-09-2022
Point of Collection :	Bamania Kalan Village (Residential Area) (25°02'314"N, 074°09.309"E)	Date of Receipt :	28-09-2022
Date of Test/Analysis :	28-09-2022 to 04-10-2022	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/m <sup>3</sup> ]	330	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO <sub>2</sub> [microgram/m <sup>3</sup> ]	13.26	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Suspended Particulate Matter (SPM) [microgram/m <sup>3</sup> ]	129.5	IS 5182 (Part 4) : 1999 RA 2019	-
4	Particulate Matter (PM2.5) [microgram/m <sup>3</sup> ]	20.74	IS 5182 (Part 24) : 2019	60.00
5	Sulphur Dioxide [microgram/m <sup>3</sup> ]	3.32	IS 5182 (Part 2) : 2001 RA 2017	80.00
6	Particulate Matter (PM 10) [microgram/m <sup>3</sup> ]	41.71	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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**Sunil Kumar**  
Senior Analyst

**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: TC502522400002887 )

## INTERNAL REPORT ON WASTE DUMP'S STABILITY

Waste dump is a integral part of ground control management plan. A three dimensional view of the current profile of the waste dump is shown in figure 1. The maximum height of the dump slope is 23 metre as shown in figure 2. Photograph of the dump is shown in figure 3. Surface is properly levelled and no tension cracks found. With the current bench configuration and geometry of the dump it has good stability and not have any danger of collapse. Wherever the dump boundary comes closer to a haulage road, a protective wall/parapet wall needs to be constructed against the same to avoid roll down of any waste rock into the haulage road. If the height of the dump from the original surface profile is increased more than 30m, a bench of minimum 30m width needs to be left prior to starting a second bench. The dump profile movements are continued to be monitored using Total Station survey on a regular basis.

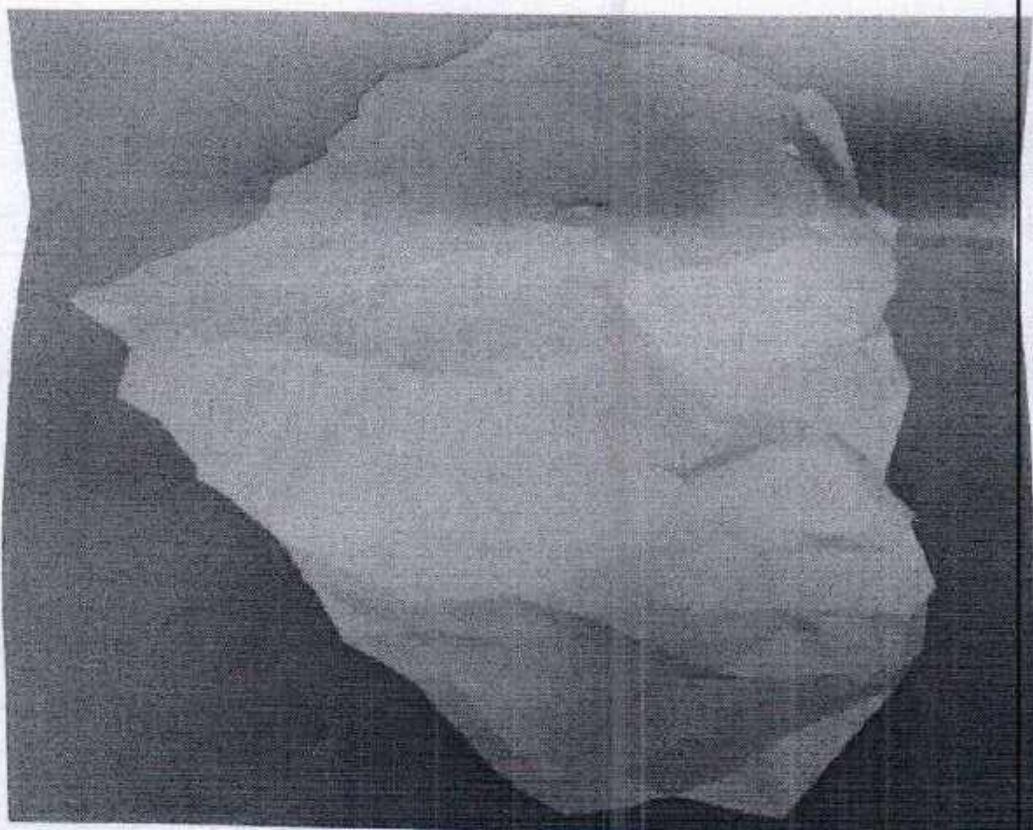


Figure-1

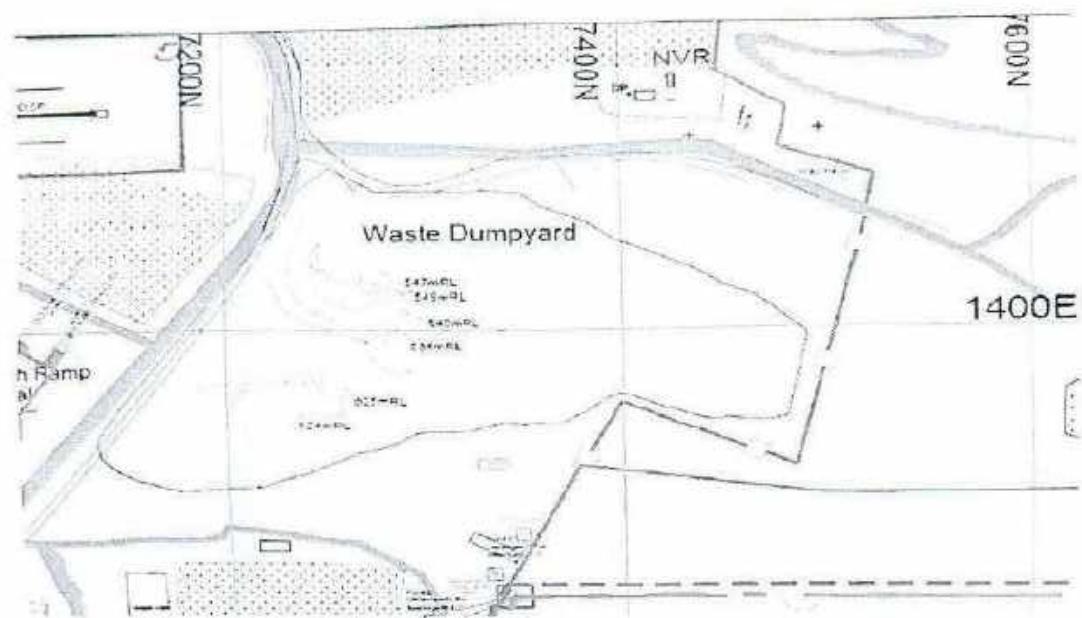


Figure 2

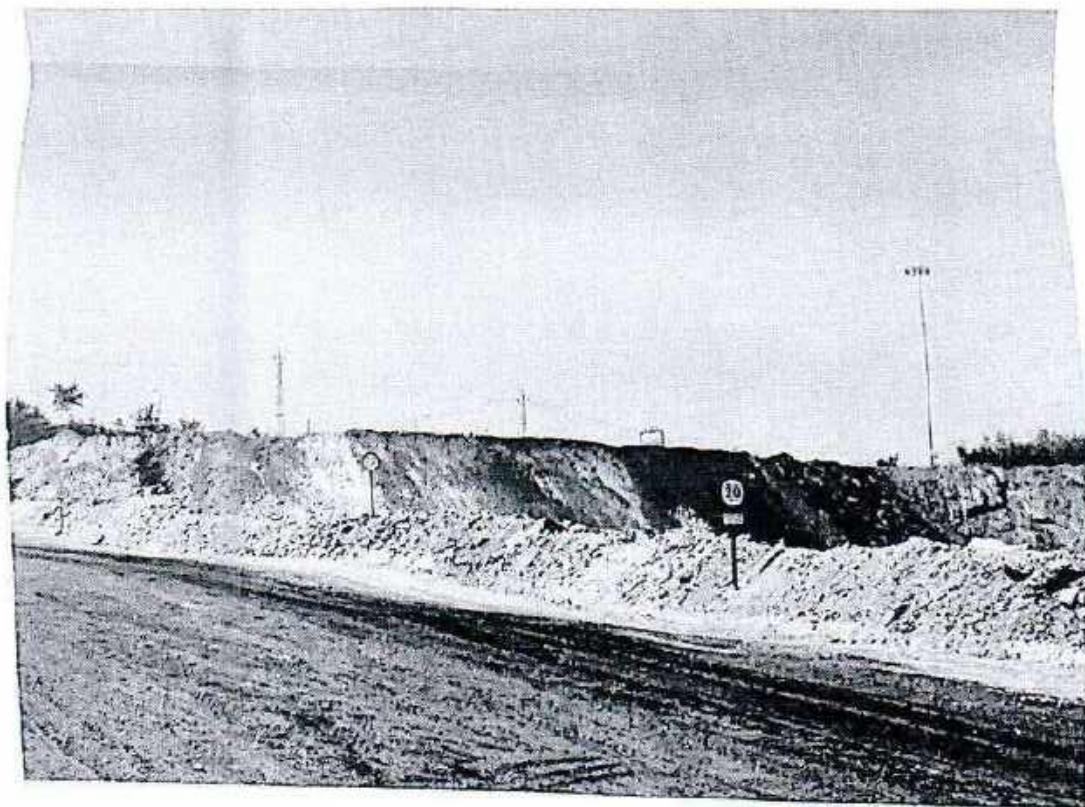


Figure 3

*[Handwritten signature]*



ANNEXURE - IV

**TEAM TEST HOUSE**  
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Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No.:	300000032	Date :	20-06-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar KhurdMines) P.O. - Daniba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Vegetables/Crops	Date of Sample Collection/Monitoring :	21-05-2022
Point of Collection :	SKM	Date of Receipt :	24-05-2022
Date of Test/Analysis :	24-05-2022 to 20-06-2022	Sampling Plan :	Not Available
Quantity of Sample :	-	Sample Collected By :	Krishan Murari
Unit's representative :	Mr Anurag Khandelwal	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Lead [ppm]	16.83	APHA : 2017:3111-B
2	Zinc [ppm]	55.76	APHA : 2017:3111-B
3	Copper [ppm]	4.1	APHA : 2017:3111-B
4	Cadmium [ppm]	0.38	APHA : 2017:3111-B
5	Nickel [ppm]	Less than 0.1	APHA : 2017:3111-B
6	Iron [ppm]	135.62	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) & parameter(s). Endorsement of products is neither inferred nor implied.
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Balram Khandelwal

Rajesh Maheshwari  
Authorized Signatory  
(Report No: 300000032)



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

**TEST REPORT**

Report No./ULR No. :	300000033	Date :	20-06-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar KhurdMines) P.O. - Danba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Vegetables/Crops	Date of Sample Collection/Monitoring :	21-05-2022
Point of Collection :	Bamania kalan	Date of Receipt :	24-05-2022
Date of Test/Analysis :	24-05-2022 to 20-06-2022	Sampling Plan :	Not Available
Quantity of Sample :	-	Sample Collected By :	Krishan Murari
Unit's representative :	Mr Anurag Khandelwal	Condition of Sample :	Fit for testing

**RESULTS**

S.No	Parameters	Observed Value	Testing Protocol
1	Lead [ppm]	140.62	APHA : 2017:3111-B
2	Zinc [ppm]	280.77	APHA : 2017:3111-B
3	Copper [ppm]	31.71	APHA : 2017:3111-B
4	Cadmium [ppm]	3.68	APHA : 2017:3111-B
5	Nickel [ppm]	3.92	APHA : 2017:3111-B
6	Iron [ppm]	012.97	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 Maneshwan**  
Authorized Signatory  
(Report No: 300000033)



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Email : marketinglab@teamtesthouse.com

**TEST REPORT**

Report No./ULR No.:	300000034	Date :	20-06-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar KhurdMines) P. O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Vegetables/Crops	Date of Sample Collection/Monitoring :	21-05-2022
Point of Collection :	Raghunath pura	Date of Receipt :	24-05-2022
Date of Test/Analysis :	24-05-2022 to 20-06-2022	Sampling Plan :	Not Available
Quantity of Sample :	-	Sample Collected By :	Krishan Murari
Unit's representative :	Mr Anurag Khandelwal	Condition of Sample :	Fit for testing

**RESULTS**

S.No	Parameters	Observed Value	Testing Protocol
1	Lead [ppm]	17.64	APHA : 2017:3111-B
2	Zinc [ppm]	56.94	APHA : 2017:3111-B
3	Copper [ppm]	1.65	APHA : 2017:3111-B
4	Cadmium [ppm]	0.39	APHA : 2017:3111-B
5	Nickel [ppm]	0.25	APHA : 2017:3111-B
6	Iron [ppm]	126.51	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 (x). Endorsement of products is neither inferred nor implied.
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**Balram Agarwal**  
Senior Analyst

**Rajesh Maneshwar**  
Authorized Signatory  
(Report No: 300000034)



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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./JLR No.:	300000035	Date :	20-06-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar KhurdMines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Vegetables/Crops	Date of Sample Collection/Monitoring :	21-05-2022
Point of Collection :	Kantiya Khera (Chana leaf)	Date of Receipt :	24-05-2022
Date of Test/Analysis :	24-05-2022 to 20-06-2022	Sampling Plan :	Not Available
Quantity of Sample :	-	Sample Collected By :	Krishan Murari
Unit's representative :	Mr Anumag Khandelwal	Condition of Sample :	Fit for testing

**RESULTS**

S.No	Parameters	Observed Value	Testing Protocol
1	Lead [ppm]	19.62	APHA : 2017:3111-B
2	Zinc [ppm]	85.22	APHA : 2017:3111-B
3	Copper [ppm]	1.03	APHA : 2017:3111-B
4	Cadmium [ppm]	0.31	APHA : 2017:3111-B
5	Nickel [ppm]	0.36	APHA : 2017:3111-B
6	Iron [ppm]	139.45	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

*Rajesh Mahesnwan*  
Rajesh Mahesnwan  
Authorized Signatory  
(Report No: 30000035)



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**TEST REPORT**

Report No./ULR No. :	300000036	Date :	20-06-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar KhurdMines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan)	Type of Unit :	Mines
Type of Sample :	Vegetables/Crops	Date of Sample Collection/Monitoring :	21-05-2022
Point of Collection :	Rajpura village	Date of Receipt :	24-05-2022
Date of Test/Analysis :	24-05-2022 to 20-06-2022	Sampling Plan :	Not Available
Quantity of Sample :	-	Sample Collected By :	Krishan Murari
Unit's representative :	Mr Anurag Khandelwal	Condition of Sample :	Fit for testing

**RESULTS**

S.No	Parameters	Observed Value	Testing Protocol
1	Lead [ppm]	148.76	APHA : 2017:3111-B
2	Zinc [ppm]	294.47	APHA : 2017:3111-B
3	Copper [ppm]	17.58	APHA : 2017:3111-B
4	Cadmium [ppm]	3.12	APHA : 2017:3111-B
5	Nickel [ppm]	5.21	APHA : 2017:3111-B
6	Iron [ppm]	953.09	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*  
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*Rajesh Maheshwari*  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: 300000036)



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**TEST REPORT**

Report No./ULR No. :	300000037	Date :	20-06-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar KhurdMines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Vegetables/Crops	Date of Sample Collection/Monitoring :	21-05-2022
Point of Collection :	Sindesar Khurd	Date of Receipt :	24-05-2022
Date of Test/Analysis :	24-05-2022 to 20-06-2022	Sampling Plan :	Not Available
Quantity of Sample :	-	Sample Collected By :	Krishan Murari
Unit's representative :	Mr Anumag Khandelwal	Condition of Sample :	Fit for testing

**RESULTS**

S.No.	Parameters	Observed Value	Testing Protocol
1	Lead [ppm]	142.8	APHA : 2017:3111-B
2	Zinc [ppm]	549.74	APHA : 2017:3111-B
3	Copper [ppm]	17.75	APHA : 2017:3111-B
4	Cadmium [ppm]	3.77	APHA : 2017:3111-B
5	Nickel [ppm]	3.85	APHA : 2017:3111-B
6	Iron [ppm]	1036.84	APHA : 2017:3111-B
7	Chromium [ppm]	Less than 0.1	APHA : 2017:3111-B
8	Mercury [ppm]	Less than 0.1	APHA : 2017:3111-B

Notes :-

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Balram  
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Rajesh Maheshwari  
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**TEST REPORT**

Report No./ULR No. :	300000038	Date :	20-06-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar KhurdMines) P.O. - Dariba - 313211, Distt. Rejasamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Aquatic Life and Invertebrates Animals	Date of Sample Collection/Monitoring :	20-05-2022
Point of Collection :	Bamania Kalan (Banas River)	Date of Receipt :	24-05-2022
Date of Test/Analysis :	24-05-2022 to 20-06-2022	Sampling Plan :	Not Available
Quantity of Sample :	-	Sample Collected By :	Krishan Murari
Unit's representative :	Mr Anurag Khandelwal	Condition of Sample :	Fit for testing

**RESULTS**

S.No	Parameters	Observed Value	Testing Protocol
1	Lead [ppm]	0.19	APHA : 2017:3111-B
2	Zinc [ppm]	29.36	APHA : 2017:3111-B
3	Copper [ppm]	3.55	APHA : 2017:3111-B
4	Cadmium [ppm]	0.13	APHA : 2017:3111-B
5	Nickel [ppm]	0.58	APHA : 2017:3111-B
6	Iron [ppm]	25.48	APHA : 2017:3111-B
7	Chromium [ppm]	0.36	APHA : 2017:3111-B
8	Mercury [ppm]	0.05	APHA : 2017:3111-B

Notes :-

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*Balram Agarwal*  
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Senior Analyst

*Rakesh Maheshwari*  
Rakesh Maheshwari  
Authorized Signatory  
(Report No: 300000038)



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**TEST REPORT**

Report No/JLRL No.	300000039	Date :	20-06-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar KhurdMines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Aquatic Life and Invertebrates Animals	Date of Sample Collection/Monitoring :	20-05-2022
Point of Collection :	Raghunath Pura Pond Fish	Date of Receipt :	24-05-2022
Date of Test/Analysis:	24-05-2022 to 20-06-2022	Sampling Plan :	Not Available
Quantity of Sample :	-	Sample Collected By :	Krishan Murari
Unit's representative :	Mr Anurag Khandelwal	Condition of Sample :	Fit for testing

**RESULTS**

S.No	Parameters	Observed Value	Testing Protocol
1	Lead [ppm]	0.15	APHA : 2017:3111-B
2	Zinc [ppm]	23.28	APHA : 2017:3111-B
3	Copper [ppm]	8.32	APHA : 2017:3111-B
4	Cadmium [ppm]	0.19	APHA : 2017:3111-B
5	Nickel [ppm]	0.49	APHA : 2017:3111-B
6	Iron [ppm]	20.86	APHA : 2017:3111-B
7	Chromium [ppm]	0.03	APHA : 2017:3111-B
8	Mercury [ppm]	0.06	APHA : 2017:3111-B

Notes :-

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*Balram Agarwal*  
Balram Agarwal  
Senior Analyst

*Rakesh Maheshwari*  
Rakesh Maheshwari  
Authorized Signatory  
(Report No: 300000039)



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**TEST REPORT**

Report No./ULR No. :	300000040	Date :	20-06-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar KhurdMines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Aquatic Life and Invertebrates Animals	Date of Sample Collection/Monitoring :	20-05-2022
Point of Collection :	Bharat Dam Pond Fish	Date of Receipt :	24-05-2022
Date of Test/Analysis :	24-05-2022 to 20-06-2022	Sampling Plan :	Not Available
Quantity of Sample :	-	Sample Collected By :	Krishan Murari
Unit's representative :	Mr Anurag Khandelwal	Condition of Sample :	Fit for testing

**RESULTS**

S.No	Parameters	Observed Value	Testing Protocol
1	Lead [ppm]	0.19	APHA : 2017:3111-B
2	Zinc [ppm]	17.69	APHA : 2017:3111-B
3	Copper [ppm]	8.63	APHA : 2017:3111-B
4	Cadmium [ppm]	0.14	APHA : 2017:3111-B
5	Nickel [ppm]	0.63	APHA : 2017:3111-B
6	Iron [ppm]	32.41	APHA : 2017:3111-B
7	Chromium [ppm]	0.05	APHA : 2017:3111-B
8	Mercury [ppm]	0.07	APHA : 2017:3111-B

Notes :-

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**Balram Agarwal**  
Senior Analyst

**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: 300000040)





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**TEST REPORT**

Report No./ULR No.:	300000065	Date :	14-09-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar KhurdMines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Vegetables/Crops	Date of Sample Collection/Monitoring :	28-08-2022
Point of Collection :	Raghunath pura (Loki leafs)	Date of Receipt :	01-09-2022
Data of Test/Analysis :	01-09-2022 to 14-09-2022	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]	0.41	APHA 2017:3111-B
2	Zinc [ppm]	93.96	APHA 2017:3111-B
3	Copper [ppm]	13.9	APHA 2017:3111-B
4	Cadmium [ppm]	0.20	APHA 2017:3111-B
5	Nickel [ppm]	0.48	APHA 2017:3111-B
6	Iron [ppm]	453.85	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

Notes :-

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Mr. Balram  
Senior Analyst ID

Balram  
Authenticated Signature  
(Report No: 300000065)



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JDA/UDH

**TEST REPORT**

Report No./ULR No.:	300000066	Date :	14-09-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Vegetables/Crops	Date of Sample Collection/Monitoring :	28-08-2022
Point of Collection	Kantiya Khera (Kachri leafs)	Date of Receipt:	01-09-2022
Date of Test/Analysis :	01-09-2022 to 14-09-2022	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]	0.47	APHA : 2017:3111-B
2	Zinc [ppm]	68.9	APHA : 2017:3111-B
3	Copper [ppm]	10.27	APHA : 2017:3111-B
4	Cacium [ppm]	0.22	APHA : 2017:3111-B
5	Nickel [ppm]	0.76	APHA : 2017:3111-B
6	Iron [ppm]	1273	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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N. Sejal Chouhan  
Senior Analyst

Balbir  
Authorized Signatory  
(Report No. 300000066)



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**TEST REPORT**

Report No./JLR No.:	300000067	Date :	14-09-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar KhurdMines) P.O. - Danba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Vegetables/Crops	Date of Sample Collection/Monitoring :	28-08-2022
Point of Collection :	Rajpura Village (Shem leafs)	Date of Receipt :	01-09-2022
Date of Test/Analysis :	01-09-2022 to 14-09-2022	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]	0.24	APHA : 2017:3111-B
2	Zinc [ppm]	100.4	APHA : 2017:3111-B
3	Copper [ppm]	11.89	APHA : 2017:3111-B
4	Cadmium [ppm]	0.10	APHA : 2017:3111-B
5	Nickel [ppm]	0.87	APHA : 2017:3111-B
6	Iron [ppm]	447.4	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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M.A.  
Senior Analyst

B.D.  
Authorized Signatory  
(Report No: 300000067)



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JDA/UDH

**TEST REPORT**

Report No./ULR No.:	300000068	Date :	14-09-2022
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 :	28-08-2022
Point of Collection :	Sindesar Khurd (Kachri leafs)	Date of Receipt :	01-09-2022
Date of Test/Analysis :	01-09-2022 to 14-09-2022	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]	0.45	APHA : 2017:3111-B
2	Zinc [ppm]	69.81	APHA : 2017:3111-B
3	Copper [ppm]	8.61	APHA : 2017:3111-B
4	Cadmium [ppm]	0.20	APHA : 2017:3111-B
5	Nickel [ppm]	0.65	APHA : 2017:3111-B
6	Iron [ppm]	1105.5	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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*Majid*  
Majid  
Senior Analyst

*Balwan*  
Balwan  
Authorized Signatory  
(Report No: 300000068)



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Office : E-65, Chiranjit Marg, C-Scheme, Jaipur - 302001, Rajasthan Phone : +91 6377210064, 9414077379, Website : <a href="http://www.teamtesthouse.com">www.teamtesthouse.com</a> Email : team.bdhead@gmail.com			Laboratory : G1-584, RIICO Industrial Area, Sitapura, Jaipur - 302022, Rajasthan Phone : +91 9460222039, 9460222040, Email : director@teamtesthouse.com Email : marketinglab@teamtesthouse.com	

**TEST REPORT**

Report No./JLR No. :	300000069	Date :	14-09-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar KhurdMines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Aquatic Life and Invertebrates Animals	Date of Sample Collection/Monitoring :	28-08-2022
Point of Collection :	Bamania Kalan (Banas River)	Date of Receipt :	01-09-2022
Date of Test/Analysis :	01-09-2022 to 14-09-2022	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]	34.12	APHA : 2017:3111-B
3	Copper [ppm]	4.25	APHA : 2017:3111-B
4	Cadmium [ppm]	0.10	APHA : 2017:3111-B
5	Nickel [ppm]	0.64	APHA : 2017:3111-B
6	Iron [ppm]	31.44	APHA : 2017:3111-B
7	Chromium [ppm]	0.32	APHA : 2017:3111-B
8	Mercury [ppm]	0.04	APHA : 2017:3111-B

Notes :-

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

M. Aqib  
Senior Analyst

Balram Adhikary  
Authorized Signatory  
(Report No: 300000069)



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

**TEST REPORT**

Report No./ULR No.:	300000070	Date :	14-09-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar KhurdMines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Aquatic Life and Invertebrates Animals	Date of Sample Collection/Monitoring :	28-08-2022
Point of Collection	Raghunath pura Pond Fish	Date of Receipt :	01-09-2022
Date of Test/Analysis :	01-09-2022 to 14-09-2022	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]	0.12	APHA : 2017:3111-B
2	Zinc [ppm]	17.64	APHA : 2017:3111-B
3	Copper [ppm]	7.53	APHA : 2017:3111-B
4	Cadmium [ppm]	0.12	APHA : 2017:3111-B
5	Nickel [ppm]	0.38	APHA : 2017:3111-B
6	Iron [ppm]	18.24	APHA : 2017:3111-B
7	Chromium [ppm]	0.02	APHA : 2017:3111-B
8	Mercury [ppm]	0.05	APHA : 2017:3111-B

Notes :-

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

*Manoj Chouhan*  
**Manoj Chouhan**  
Senior Analyst

*Balaji*  
**Balaji**  
Authorized Signatory  
Report No: 300000070



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

JDA/UDH

**TEST REPORT**

Report No./ULR No.:	300000071	Date :	14-09-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Aquatic Life and Invertebrates Animals	Date of Sample Collection/Monitoring :	26-08-2022
Point of Collection :	Bharai Dam Pond Fish	Date of Receipt :	01-09-2022
Date of Test/Analysis :	01-09-2022 to 14-09-2022	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]	0.17	APHA : 2017:3111-B
2	Zinc [ppm]	19.55	APHA : 2017:3111-B
3	Copper [ppm]	7.26	APHA : 2017:3111-B
4	Cadmium [ppm]	0.12	APHA : 2017:3111-B
5	Nickel [ppm]	0.54	APHA : 2017:3111-B
6	Iron [ppm]	37.11	APHA : 2017:3111-B
7	Chromium [ppm]	0.03	APHA : 2017:3111-B
8	Mercury [ppm]	0.06	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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Nafisid  
Senior Analyst  
NGCID

Balram  
Authorized Signatory  
(Report No: 300000071)



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JDA/UDH

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

**TEST REPORT**

Report No./ULR No.:	300000073	Date :	14-09-2022
Issued To :	M/S Hindustani Zinc Limited (Sindesar KhurdMines) P.O. - Dariba - 313211, Distt: Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Vegetables/Crops	Date of Sample Collection/Monitoring :	28-08-2022
Point of Collection :	SKM (Makka leafs)	Date of Receipt :	01-09-2022
Date of Test/Analysis :	01-09-2022 to 14-09-2022	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]	0.33	APHA : 2017:3111-B
2	Zinc [ppm]	85.2	APHA : 2017:3111-B
3	Copper [ppm]	9.98	APHA : 2017:3111-B
4	Cadmium [ppm]	0.09	APHA : 2017:3111-B
5	Nickel [ppm]	0.82	APHA : 2017:3111-B
6	Iron [ppm]	168.6	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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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Majid  
Senior Analyst NGID

Balgopal Agarwal  
Authorized Signatory  
(Report No: 300000073)



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

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**TEST REPORT**

Report No./JLR No.:	300000074	Date :	14-09-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar KhurdMines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Vegetables/Crops	Date of Sample Collection/Monitoring :	28-08-2022
Point of Collection :	Bamania Kalan (Makka leafs)	Date of Receipt :	01-09-2022
Date of Test/Analysis :	01-09-2022 to 14-09-2022	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**

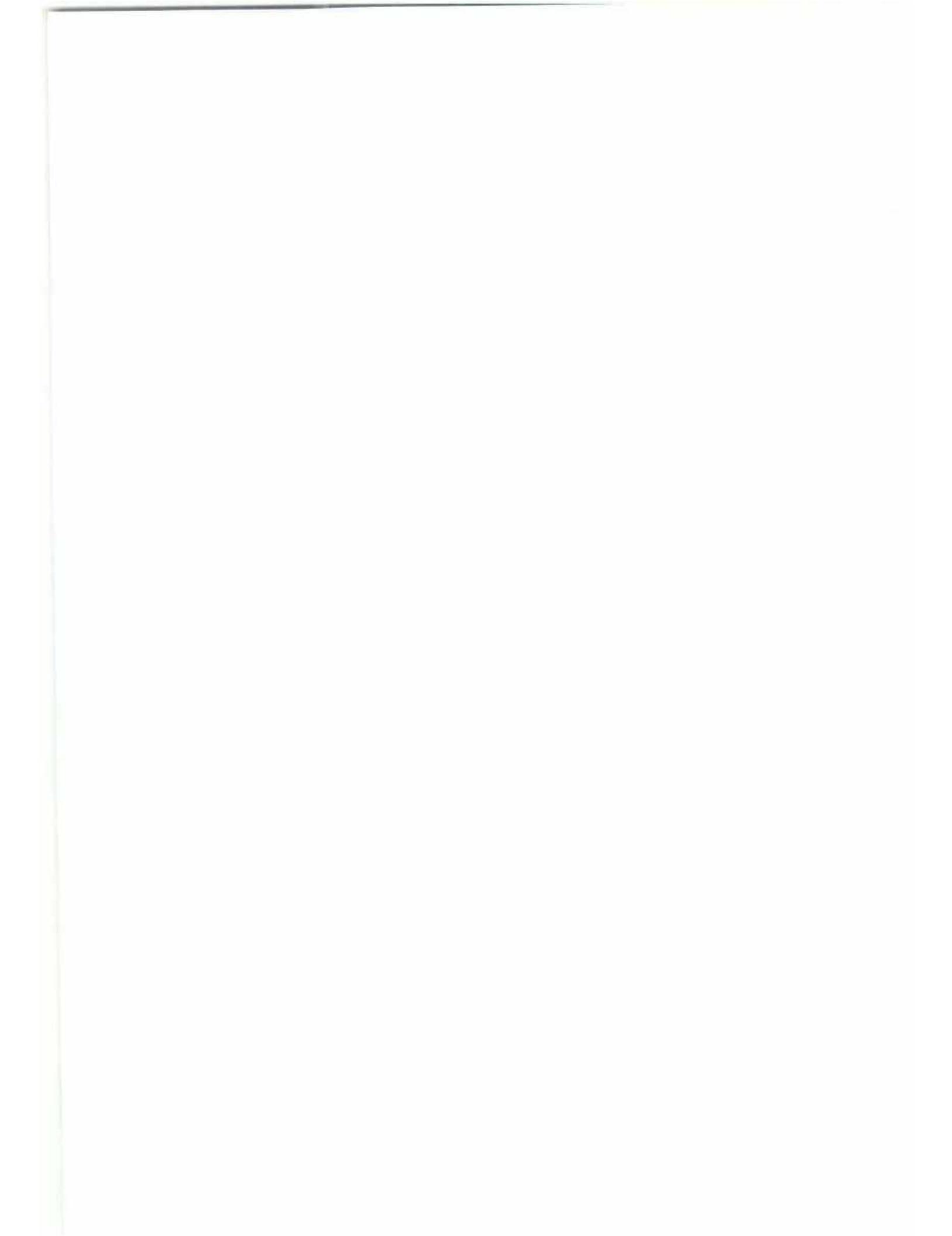
S.No	Parameters	Observed Value	Testing Protocol
1	Lead [ppm]	0.40	APHA : 2017:3111-B
2	Zinc [ppm]	74.15	APHA : 2017:3111-B
3	Copper [ppm]	7.49	APHA : 2017:3111-B
4	Cadmium [ppm]	0.11	APHA : 2017:3111-B
5	Nickel [ppm]	0.87	APHA : 2017:3111-B
6	Iron [ppm]	173.4	APHA : 2017:3111-B
7	Chromium [ppm]	0.22	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 intended 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.

**Nigid**  
 Senior Analyst

**Balraj**  
 Authorized Signatory  
 (Report No: 300000074)





Date: 19.02.2019

To,  
 Director,  
 IA - Division (Non-Coal Mining)  
 A-106, Agni Block, 1st Floor,  
 Indira Paryavaran Bhawan  
 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 Sindedar 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 Sindedar 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 Sindedar Khurd village Tehsil: Reimgra, District, Rajasmand, 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

#### Hindustan Zinc Limited

Sindedar Khurd Mine, P.O. Dariba, Teh. Reimgra, Distt. Rajasmand (Rajasthan) - 313 211  
 T +91-2952 265 275 F +91-2952 265 143 www.hzlindia.com

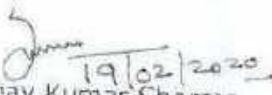
of transportation of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of sound and dust along with chances of accidents could be mitigated. All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation 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 - Sindedar 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-II

एप्पारेंटेसर सुदूर को अन्यत्र बसावेंगे। ऐसा प्राप्त सिद्धेश्वर दहर में जिसके भीतर दूर दक्षी याम की ओर में गुज़बारी नालाडी के पास 67 बीघा खुली आवासीय फैलावना नालीकर्णा करता है।

१. बासिन्दिकर जलधारी में ७० करोड़ लीटर अनुकार प्रतिवर्ष सुलुक चतुर्भुज ब्लॉक्स के जिलायती क्षेत्र जिला नालीकर्णा में नालीकर्णा बांध है।

(विद्युत आपूर्ति का एक नियम इन्हुकराकर्णी नालीकर्णा नालीकर्णा है। सामान्य राजधानी का लिए लागू होना विद्युत आपूर्ति का एक नालीकर्णा है।)

२. आवासीय आपूर्ति की १४०० दर ३०० लीटर प्रति दर्जे प्रति दर्जे की है जिसके तुकाराम १७०० लीटर प्रति दर्जे की नियमित की जाती है तथा आवासीय भूमि के क्षेत्र के बराबर या उससे अधिक ३०० लीटर प्रति दर्जे की आपूर्ति ने छपानी नहीं दी जिसका लान देना स्थान नियम है।

३. नियमित किसी जाते जाते भाग विद्येशर सुदूर के नियम ३१.०६.२०१० को बढ़ावा दिया एवं उनका कानूनी कानून होने के बाद राज्यालय रेलवे द्वारा राजस्वान परिवहन संचालन के दिनांक ११.०६.२०१० के बाद से दृष्टि नीरामनियत नहीं रखती है।

४. नियमित के उद्दृश्यक विविधों की रकमों अनुसार १७ फ्लॉटिंग भूमि (पट्टी) व नियमित लान के नियमित दृष्टि विवार की गई। जिसमें आवासीय भूमि के पट्टी में कर्मीया भागी गई। उद्दृश्यक भूमि पर पट्टी की दृष्टि में स्थानीय घौड़ी रकम या जलाला पायी गई। एक ही भूखण्ड का दोहरा पट्टा जारी किया जाना कारों भूमि में पट्टा जारी किया जाना एक्सामिन। इन्हुकराकर्णी की विविधता में जाते सभी कर्मी भूमि के अविभाग रूप से ७ विविधीय रेपार की गई हैं किन्तु लोटिंग १९ की विवरण ऐसे रोक जारी रखा जाये जा सकता।

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JUL-10-5, dtd. 11-06-2019  
CHARTERED BY 2000-195

सुचिना

148 of 148

## कार्यालय मुख्य वन संरक्षक, वन्यजीव, उदयपुर

फैसला एफ 1( ) रक्तीर मुद्रा दरी 2021-22 1525 दिनांक 27/7/21  
मिनेस

प्रधान मुख्य वन संरक्षक  
एव मुख्य वनस्पति प्रक्रियालय  
राजस्थान जयपुर

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

सदमे:- आपका पत्राक 2020-21 69 दिनांक 18/02/2021

महोदय

उपरोक्त विधानसभा निवेदन है कि उप वन संरक्षक वन्यजीव राजस्थान द्वारा विधायिका चार्टर्ड लाइफ कन्जरेशन प्लान में वाहित आडोपी की पूर्ति की जाकर तदनुसार परामर्श अर्थात् करने हेतु इस कार्यालय में भिजवाया है जो मूल ही प्रस्ताव ~~मा~~ के सत्त्वाव वर अवैध आवश्यक कार्यवाही हेतु प्रेषित है।

संस्करण:- प्रस्ताव की 3 प्रतियों।

भवारीय

~~स्टार्ट~~

(आर के लेखा)  
मुख्य वन संरक्षक  
वन्यजीव, उदयपुर

o/c  
CD

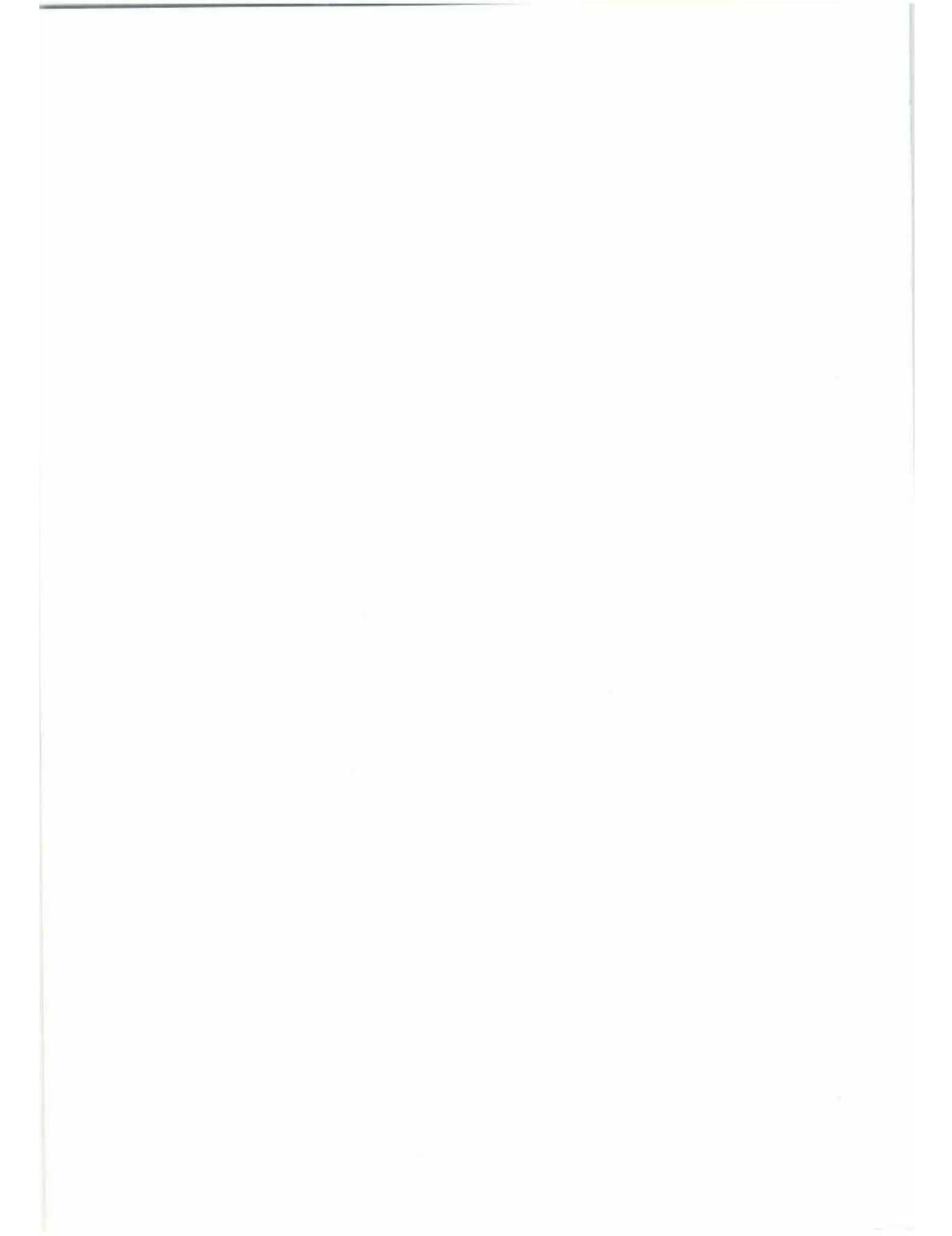
क्रमांक: एफ1( )/तक.1/मुवस/वजी/2021-22/1226-27 दिनांक 27/07/21  
प्रतिलिपि निम्नलिखित को सूचनार्थ प्रेषित है-

1. उप वन संरक्षक, वन्यजीव, राजस्थान।
2. यूनिट हैड मैसर्स हिन्दुस्तान जिंक लिमिटेड, सिन्देसर खुर्द, रेलगढ़ा, राजस्थान।

~~भवारीय~~  
मुख्य वन संरक्षक,  
वन्यजीव, उदयपुर

o/c

CD



## Awareness on Menstrual Hygiene Management & Sanitary Napkin Distribution

Date – 30/06/2022

Village – Naya Dariba

Location – Dariba

Under SAKHI program supported by HZL Dariba, Manjari Foundation organized one day awareness camp on menstrual hygiene management for adolescent girls at Naya Dariba village.

The aim behind organizing this program was to give awareness to people about Taboos , myths , and constrictions associated with menstruation leave a negative impact . Therefore, to break the silence and normalize menstruation,



**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 sessions were facilitated by Nisha from HZL and Ms. Rubi Singh trainer from Manjari foundation Railmagra. 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.

- Nutrition - In the Nutrition during periods, what are the vegetables are important for the body , fruits that daily need to be consumed .  
All green vegetables, milk eggs, grains, pulses, etc.
- Menstrual Hygiene - We are explained who to sanitary pad attached with a panty and explained how to attach the sanitary pad its uses.
- What measures to be taken during menstruation pain
- Social myths and misconceptions attached with this issue .
- Safe disposal of sanitary napkins .
- Societal restriction and lack of menstrual-related information that affect girls' physical and emotional state

Total 25 women and adolescent girls were participated in the program. Sanitary napkin distributed to all participants in this camp. Ms Nisha From HZL and Rubi from Manjari Foundation were organized all the session activities.



## **Awareness on Menstrual Hygiene Management & Sanitary Napkin Distribution**

**Date – 02/09/2022**

**Village – Aajna**

**Location – Dariba**

Under SAKHI program supported by HZL Dariba, Manjari Foundation organized one day awareness camp on menstrual hygiene management for adolescent girls at Aajna village .



**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

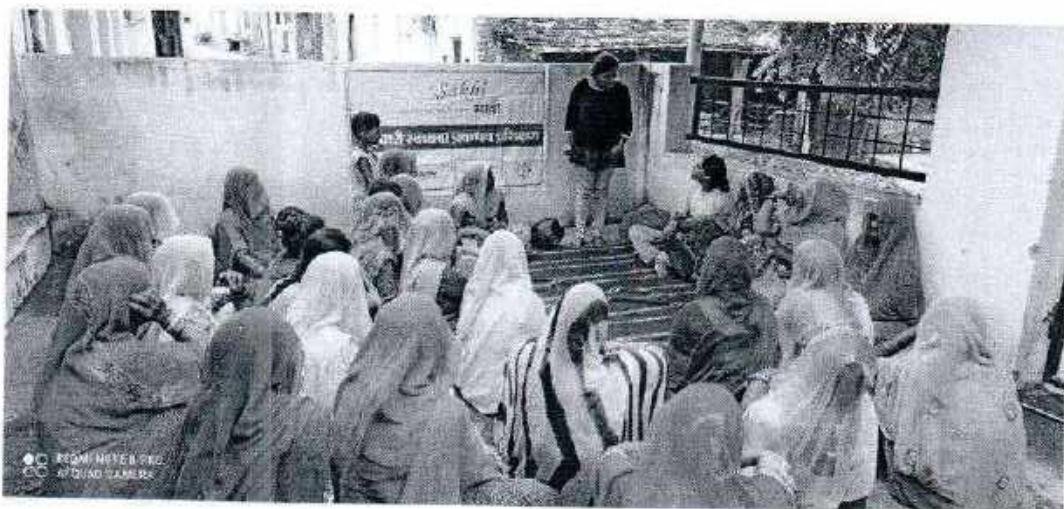
Awareness sessions were facilitated by Ms. Rubi Singh trainer from Manjari Foundation. During the session facilitators provided knowledge and information on 28 days menstruation cycle, periods so that adolescents can crack periods date and will do preparation for that accordingly. It was also discussed 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 36 women and adolescent girls were participated in the program. Sanitary napkin distributed to all participants in this camp. Miss Rubi from Manjari Foundation were organized all the session activities.



## Safety Status Report (SSR)

(Nucleonic Gauge Facility)

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

Name of Institution:	Sindesar Khurd Mines
e-LORA Institution Number	RJ-35620
SSR Reporting period	July 22

### Inventory of the Nucleonic Gauges/Sources

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

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

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

S.No	Make & Model of nucleonic devices	Number of nucleonic devices	Serial number of nucleonic device	Source & Activity	Location/Plant name	* Stray Radiation Level from External housing of device ( $\mu\text{Sv/hr}$ or $\text{mR/hr}$ )		Reference No. of NOC Issued by AERB/BARC	Present status of the device (In use/ To be installed/ To be disposed off)
						5 cm	100 cm		
1	Berthold LB491	1	4E3-02-30	Cs137 & 15mCi	U/F HYDROFILL	1.13	0.54	AERB/RSD/NG/NRA435/2010/25 41 Dt 22/03/2010	In Use
2	Berthold LB491	1	4E4-02-10	Cs137 & 15mCi	U/F HYDROFILL	1.28	0.46	AERB/RSD/NG/NRA435/2010/26 41 Dt 22/03/2010	In Use
3	Berthold LB491	1	4E5-02-10	Cs137 & 15mCi	REGRIND CYCLONE	1.67	0.34	AERB/RSD/NG/NRA435/2010/26 41 Dt 22/03/2010	In Use
4	Berthold LB491	1	4E6-02-10	Cs137 & 10mCi	PR-SEC CYCLONE STR-1	1.19	0.35	AERB/RSD/NG/NRA435/2010/26 41 Dt 22/03/2010	In Use
5	Berthold LB491	1	4E7-02-10	Cs137 & 10mCi	PR-SEC CYCLONE STR-2	1.03	0.24	AERB/RSD/NG/NRA435/2010/26 41 Dt 22/03/2010	In Use
6	Berthold LB491	1	4E8-02-10	Cs137 & 10mCi	TDPH	1.56	0.47	AERB/RSD/NG/NRA435/2010/25 41 Dt 22/03/2010	In Use
7	Berthold LB491	1	4E9-02-10	Cs137 & 10mCi	TDPH	1.65	0.58	AERB/RSD/NG/NRA435/2010/25 41 Dt 22/03/2010	In Use
8	Berthold LB491	1	4E0-02-10	Cs137 & 10mCi	TDPH	1.17	0.39	AERB/RSD/NG/NRA435/2010/26 41 Dt 22/03/2010	In Use
9	Berthold LB491	1	4E1-02-10	Cs137 & 10mCi	TAILING THICKENER	1.71	0.42	AERB/RSD/NG/NRA435/2010/26 41 Dt 22/03/2010	In Use
10	Berthold LB491	1	4E2-02-10	Cs137 & 10mCi	Zn Thickener	2.08	0.49	AERB/RSD/NG/NRA435/2010/26 41 Dt 22/03/2010	In Use
11	Berthold LB491	1	4E3-02-10	Cs137 & 20mCi	PB THICKENER	3.1	0.67	AERB/RSD/NG/NRA435/2010/26 41 Dt 22/03/2010	In Use
12	Berthold LB491	1	4E4-02-10	Cs137 & 10mCi	STORAGE ROOM	1.76	0.39	AERB/RSD/NG/NRA435/2010/26 41 Dt 22/03/2010	In Use
13	E&H PQG31	1	18816	200mCi	LOW	2.38	0.36	AERB/RSD/NG/NRA435/2010/99 83 Dt 14/10/2010	In Use
14	E&H PQG31	1	18817	200mCi	HIGH	2.85	0.53	AERB/RSD/NG/NRA435/2010/99 83 Dt 14/10/2010	In Use
15	Berthold LB491	1	1E72-08-12	Cs137 & 20mCi	CYCLONE FEED HYDROFILL	1.38	0.27	AERB/RSD/NG/NRA435/2012/10 504 Dt 23/08/2012	In Use
16	Berthold LB491	1	1E73-08-12	Cs137 & 20mCi	CYCLONE FEED HYDROFILL	1.64	0.33	AERB/RSD/NG/NRA435/2012/10 504 Dt 23/08/2012	In Use
17	Berthold LB491	1	1E74-08-12	Cs137 & 10mG	HYDROFILL	3.52	0.71	AERB/RSD/NG/NRA435/2012/10 504 Dt 23/08/2012	In Use
18	Berthold LB491	1	1E75-08-12	Cs137 & 10mCi	HYDROFILL	0.62	0.11	AERB/RSD/NG/NRA435/2012/10 504 Dt 23/08/2012	In Use
19	Berthold LB491	1	1E76-08-13	Cs137 & 50mCi	PASTE FILL-TAILING THICKENER	2.29	0.46	AERB/RSD/NG/NRA435/2013/11 772 Dt 02/09/2013	In Use
20	Berthold LB491	1	1E77-08-13	Cs137 & 50mCi	PASTE FILL-TAILING THICKENER	0.54	0.09	AERB/RSD/NG/NRA435/2013/11 772 Dt 02/09/2013	In Use
21	Berthold LB491	1	1E78-08-13	Cs137 & 20mCi	PASTE FILL	1.61	0.58	AERB/RSD/NG/NRA435/2013/11 772 Dt 02/09/2013	In Use
22	Berthold LB491	1	1E79-09-13	Cs137 & 20mCi	PASTE FILL	1.01	0.27	AERB/RSD/NG/NRA435/2013/12 841 Dt 14/09/2013	In Use
23	PQG60	1	LB0000001145	Cs137 & 5mCi	GRINDING CYCLONE FEED	0.76	0.1	16-NGPROC-128695	In Use
24	PQG60	1	LB0000001145	Cs137 & 1mCi	ZINC THICKENER ST-2	1.15	0.67	16-NGPROC-128694	In Use
25	PQG60	1	LB0000901145	Cs137 & 3mCi	TAILING THICKENER ST-2	1.52	0.48	16-NGPROC-128693	In Use
26	PQG61	1	LB000400113F	Cs137 & 30mCi	LEAD THICKENER ST-2	1.21	0.79	16-NGPROC-128697	In Use
27	PQG61	1	LB0004AD113F	Cs137 & 10mCi	TAILING BATTERY 1	1.01	0.55	16-NGPROC-128693	In Use
28	PQG60	1	LB000DA01145	Cs137 & 2mCi	TAILING BATTERY 2	2.11	0.98	16-NGPROC-128691	In Use
29	PQG60	1	LB0000001145	Cs137 & 2mCi	TAILING BATTERY 3	1.21	0.69	16-NGPROC-128691	In Use
30	PQG60	1	LB0000801145	Cs137 & 2mCi	PASTEFILL Battery-A	2.15	0.62	16-NGPROC-128690	In Use
31	PQG60	1	LB000A01145	Cs137 & 3mCi	PASTEFILL Battery-B	1.47	0.58	16-NGPROC-128689	In Use
32	PQG60	1	LB000801145	Cs137 & 3mCi	GRINDING CYCLONE FEED	1.05	0.62	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: Jitendra Minare

Employer/Licensee

Signature:  
Name: Sh. Anshul Kumar Khandelwal

(Seal of the Institution)

Unit Head  
Sindesar Khurd Mine  
Hindustan Zinc Limited



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
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Purpose of Renewal Application:	Existing Ground Water
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Application Type Category/ Type of Application	Base Metal Ores
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**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
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Address Line 2 :	
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Address Line 3 :	
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State:	RAJASTHAN
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District:	RAJSAMAND
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Sub-District:	RAILMAGRA
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Village/Town:	Sindesarkhurd
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Latitude:	
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Longitude:	
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Area Type :	Non-Notified
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Area Type Category :	Over Exploited
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Whether industry is MSME:	No
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**4. Communication Address**

Address Line 1:	SINDESAR KHURD MINE, HINDUSTAN ZINC LIMITED
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Address Line 2:	PO DARIBA
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Address Line 3:	TEHSIL RAILMAGRA
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State:	RAJASTHAN
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District:	RAJSAMAND
-----------	-----------

Sub-District:	RAILMAGRA
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Pincode:	313211
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Phone Number with Area Code:	
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Mobile Number:	91 9829499165
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Fax Number:	
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**5. Details of Existing NOC issued by CGWA (enclose copy)**  
E-Mail: anshul.khandelwal@vedanta.co.in

NOC Letter No:	CGWA/NOC/MIN/REN/1/2021/6407
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Date of Issuance:	12/11/2021
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Validity (Start):	24/09/2020
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Validity (End):	23/09/2022
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**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    Were facing error in application software it was not visible  
 Validity (Attach Affidavit): Applying in permitted timeline.

**6. Change in Land Use Pattern after execution of Project and Surroundings (10 km Radius - Outside)**

Agricultural-6872.8 ha., Vegetation-3817.5 ha., Sparse Scrub-7338.77 ha., Fallow land-10795.03 ha., Dense Scrub-4877.4 ha., Wasteland-1218.2 ha., Built up-1086.3 ha., Barren-330.8 ha. Water Bodies-1034.5 ha. Total 37371.3 ha.

**7. Land Use Detail of Project Area**

Land Use Details	Existing (sq meter)	Proposed (sq meter)	Grand Total (sq meter)
Green Belt Area	1020100.00	0.00	1020100.00
Open Land	512800.00	0.00	512800.00
Road/ Paved Area	23000.00	0.00	23000.00
Rooftop area of building/sheds	442500.00	0.00	442500.00
Total	1998400.00	0.00	1998400.00

**8. Whether there is a change in Topography of the Area after the execution of the Project:** No

- a) Regional
- b) Project Area

**9. Whether there is change in Drainage pattern of the area after the execution of the Project:** No

- a) Regional
- b) Project Area

**10. Present Townships / Villages within 10 km radius of the Project:-** Sindesar Khurd, Sindesar Kalan, Manakpuriya, Lathiya Kheri, Shivpura and Relmagra



भारत सरकार  
जल विकास मंत्रालय  
जल वर्षा धन, 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

(पूँजल निकासी हेतु अनापनि 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:	Sindesarkhurd	Block:	Railmagra
District:	Rajsamand	State:	Rajasthan
Pin Code:			
Communication Address:	Sindesar Khurd Mine, Hindustan Zinc Limited, Po Dariba,, ehsil 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:	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 <sup>3</sup> /day	m <sup>3</sup> /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

\*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.	Monitoring Mechanism
**DWLR - Digital Water Level Recorder	Manual DWLR** DWLR With Telemetry

(Compliance Conditions given overleaf)

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

**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 information 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 analyzed 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](http://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 m<sup>3</sup>/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) Whenever feasible, requirement of water for green belt (horticulture) shall be met from recycled / treated waste water.
- 17) Whenever the NOC is for abstraction of saline water and the existing well(s) is/are yielding fresh water, the same shall be capped and new subwell(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 in 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 m<sup>3</sup>/day, the firm/industry 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.)**



भारत सरकार  
जल शक्ति मंत्रालय  
जल संसाधन, नदी विकास  
और गंगा संरक्षण विभाग  
केंद्रीय भूमि जल प्राप्तिकरण  
Government of India  
Ministry of Jal Shakti

Department of Water Resources,  
River Development & Ganga Rejuvenation  
Central Ground Water Authority

(भूजल निकासी हेतु अनापत्ति प्रमाण पत्र)

### NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION

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

1. NOC No.:	CGWA/NOC/MIN/ORIG/2021/13239	3. Category:	Over Exploited
2. Application No.:	21-4/6603/RJ/MIN/2017	(GWRE 2020)	
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 m <sup>3</sup> /day	Saline Water m <sup>3</sup> /year		Dewatering m <sup>3</sup> /day		Total m <sup>3</sup> /year	
	m <sup>3</sup> /day	m <sup>3</sup> /year	m <sup>3</sup> /day	m <sup>3</sup> /year	m <sup>3</sup> /day	m <sup>3</sup> /year
0.00	0.00		110.15	40204.75		

#### 9. Details of ground water abstraction /Dewatering structures

Dewatering Structure*	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.

**DWLR - Digital Water Level Recorder	1	0	1	0
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(Compliance Conditions given overleaf)

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

**Mandatory conditions:**

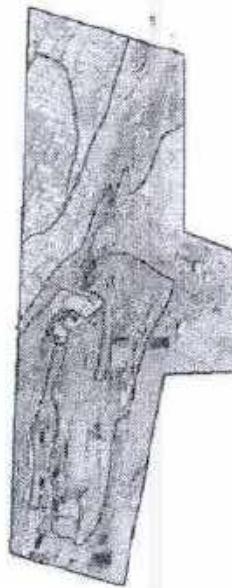
- 1) Installation of tamper proof digital water flow meter with telemetry on all the abstraction structure(s) shall be mandatory for all users seeking No Objection Certificate and intimation regarding their installation shall be communicated to the CGWA within 30 days of grant of No Objection Certificate.
- 2) Proponents shall mandatorily get water flow meter calibrated from an authorized agency once in a year.
- 3) Construction of purpose-built observation wells (pleometers) 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 pleometers 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](http://www.cgwa-noc.gov.in)) within one year from the date of issue of the NOC.
- 8) Industries abstracting ground water in excess of 100 m<sup>3</sup>/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 structures/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 increases 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 green belt (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 tube well(s) tapping saline water zone shall be constructed within 3 months of the issuance of NOC. The firm shall also ensure safe disposal of saline residue, if any.
- 18) Unexpected variation 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) The 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 rebates of upto 60% (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 II of the guidelines.
- 26) In case of new infrastructure projects having ground water abstraction of more than 20 m<sup>3</sup>/day, the firm/family 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 de-watering 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).

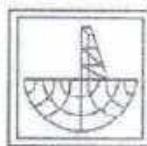
**(Non-compliance of the conditions mentioned above is likely to result in the cancellation of NOC and legal action against the proponent.)**

**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**



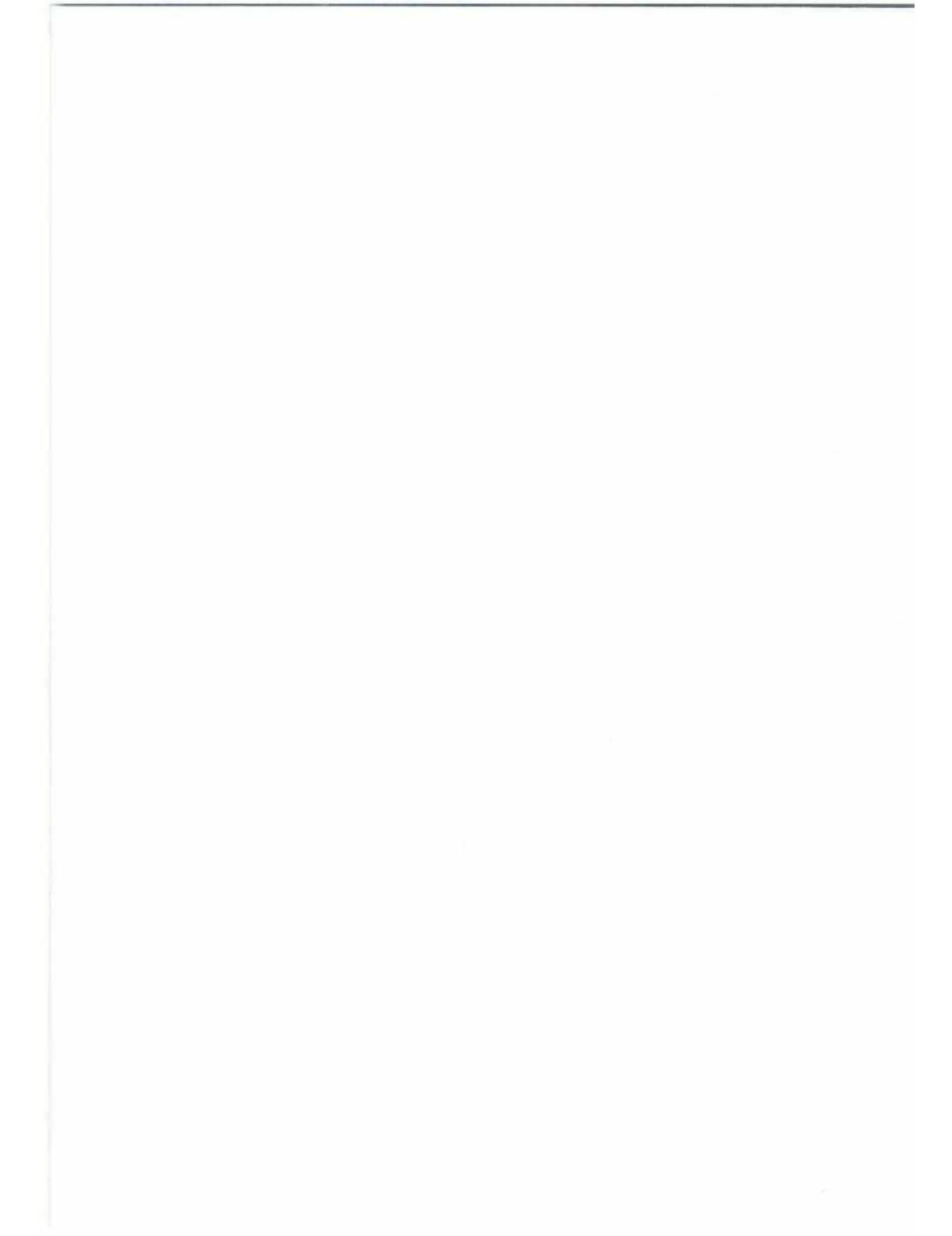
CERTIFICATE NO.: NABET/GWC01A/GW003

C-103, Shastri Nagar, Jodhpur- 342003

Phone: - 0291-2431754

Web: [www.hydrogeosurvey.com](http://www.hydrogeosurvey.com), E-mail: - [hydro.geosurvey@yahoo.com](mailto:hydro.geosurvey@yahoo.com)

June, 2021



Hindustan Zinc Limited  
Sindesar Khurd Mine  
Dariba, Dist. Rajsamand, Rajasthan



Water sprinkling on haul road



Water sprinkling on haul road in underground



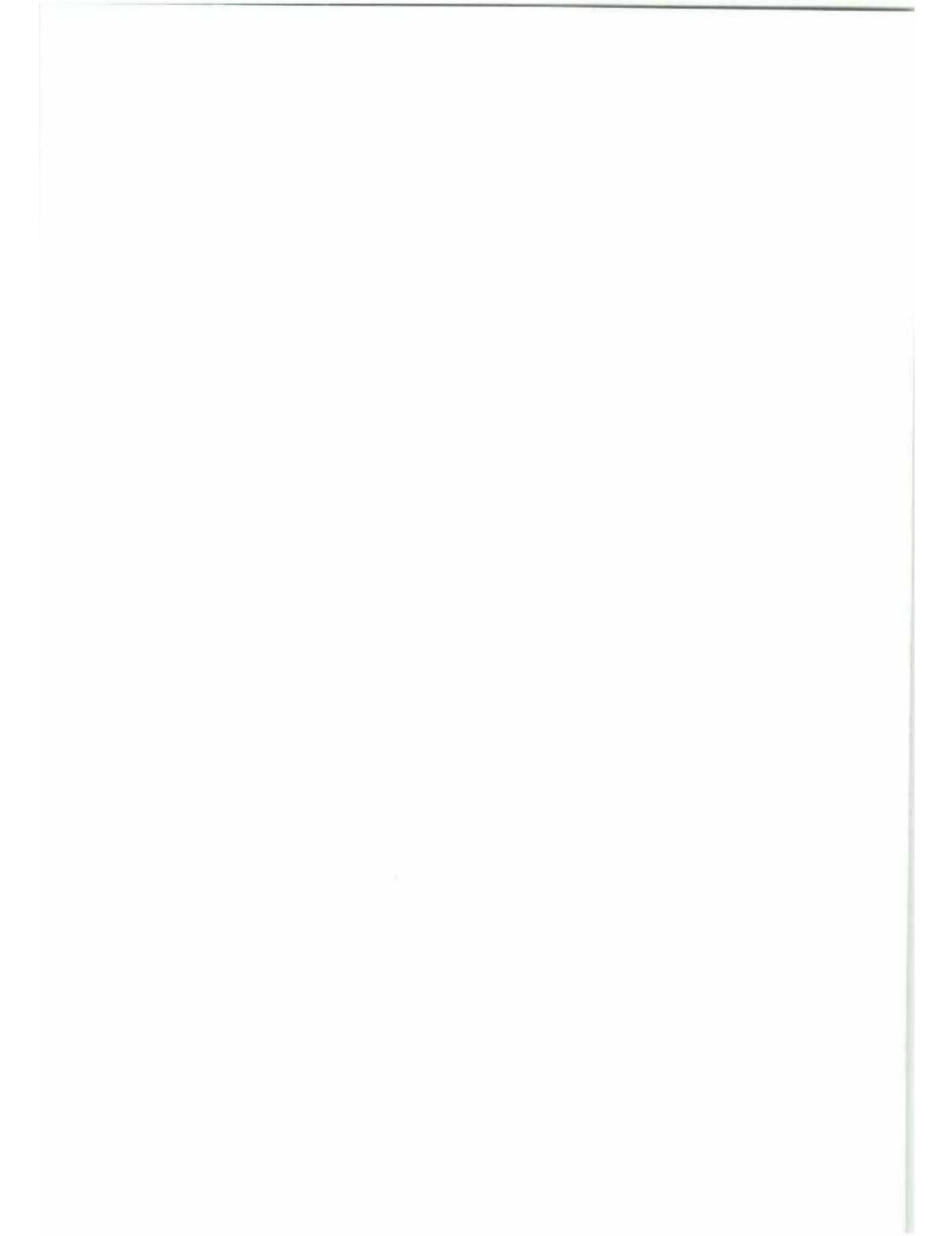
Auto dust suppression system at crusher



Mechanized vacuum road sweeper



Roadside plantation





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



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RSPCB	ISO 9001:2015	CHSAS 18001:2007	IDA/UDH
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**TEST REPORT**

Report No./ULR No.:	TC502522100000872	Date :	30-05-2022
Issued To:	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Danba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of Sample:	Potable and Domestic Water	Date of Sample Collection/Monitoring:	20-05-2022
Point of Collection:	Sunariya Kheda	Date of Receipt:	24-05-2022
Date of Test/Analysis:	24-05-2022 to 30-05-2022	Sampling Plan:	IS 3025:1987(Part 1)RA 2014
Quantity of Sample:	2ltr.	Sample Collected By:	Krashna Murari
Unit's representative:	Mr Anurag Khandelwal	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	7.54	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
2	Hardness (total) [mg/l]	238.46	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]	101.25	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	934	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	29.91	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]	40.31	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	-

Bij



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Email : [director@teamtesthouse.com](mailto:director@teamtesthouse.com),  
Email : [marketinglab@teamtesthouse.com](mailto: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
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	-
12	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994 RA 2019	5.00	15.00
13	Alkalinity - T [mg/l]	480.2	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	-	-
16	Cobalt [mg/l]	BDL(<0.01)	APHA :2017 :3111-B	-	-
17	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2019	0.001	-
18	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
19	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2019	0.02	-
20	Total Solids [mg/l]	938	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.
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- \* The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

*Balram*  
**Balram Agarwal**  
Senior Analyst

*Rajesh*  
**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: TC502522100000872 )



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Email : marketing@teamtesthouse.com

**TEST REPORT**

Report No./JLR No.:	TC502522100000876	Date :	30-05-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Portable and Domestic Water	Date of Sample Collection/Monitoring :	20-05-2022
Point of Collection	Bharai Dam	Date of Receipt :	24-05-2022
Date of Test/Analysis :	24-05-2022 to 30-05-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2ltr.	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Anurag Khandelwal	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	7.09	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
2	Hardness (total) [mg/l]	111.54	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
3	Iron [mg/l]	0.20	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
4	Chloride [mg/l]	34.71	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	292	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	8.41	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]	22.84	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	-

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**RSPCB** ISO 9001:2015 **OHSAS 18001:2007** **EDM/UDH**

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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
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	-
12	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994 RA 2019	5.00	15.00
13	Alkalinity - T [mg/l]	156.8	IS 3025 (Part 23) : 1986 RA 2019	200.00	500.00
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	-	-
16	Cobalt [mg/l]	BDL(<0.01)	APHA :2017 :3111-B	-	-
17	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2019	0.001	-
18	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
19	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2019	0.02	-
20	Total Solids [mg/l]	296	IS 3025 (part 15) : 1984 RA 2019	-	-

Notes :-

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*Baljeet*  
Baljeet Adarwala  
Senior Analyst

*Rajesh*  
Rajesh Mehta Shyam  
(Report No: TC502522100000876 )



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Email : marketinglab@teamtesthouse.com

**TEST REPORT**

Report No./ULR No.:	TC502522100000866	Date :	30-05-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Potable and Domestic Water	Date of Sample Collection/Monitoring :	20-05-2022
Point of Collection	Reimagra	Date of Receipt :	24-05-2022
Date of Test/Analysis :	24-05-2022 to 30-05-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2ltr.	Sample Collected By :	Krishna Murari
Unit's representative :	Mr Anurag Khandelwal	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	7.02	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
2	Hardness (total) [mg/l]	369.23	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]	163.92	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	1138	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	49.53	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]	63.25	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	-

(2/-)



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 Email : [marketinglab@teamtesthouse.com](mailto: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
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	-
12	Zinc [mg/l]	BDL (<0.01)	IS 3025 (Part 49) : 1994 RA 2019	5.00	15.00
13	Alkalinity - T [mg/l]	352.8	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	-	-
16	Cobalt [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	-	-
17	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2019	0.001	-
18	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
19	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2019	0.02	-
20	Total Solids [mg/l]	1146	IS 3025 (part 15) : 1984 RA 2019	-	-

Notes :-

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

**Balram Agarwal**  
 Senior Analyst

**Rakesh Maheshwari**  
 Authorized Signatory  
 (Report No: TC502522100000866 )



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**TEST REPORT**

Report No./ULR No.:	TC502522100000867	Date :	30-05-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Portable and Domestic Water	Date of Sample Collection/Monitoring :	20-05-2022
Point of Collection :	Rajpura Village	Date of Receipt :	24-05-2022
Date of Test/Analysis :	24-05-2022 to 30-05-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2ltr.	Sample Collected By :	Krishna Murari
Unit's representative :	Mr Anurag Khandelwal	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]	471.15	IS 3025 (Part 21) : 2009 RA 2019	200.00	800.00
3	Iron [mg/l]	BDL (<0.01)	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
4	Chloride [mg/l]	110.89	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	1024	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	39.72	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]	323.5	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	-

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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
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	-
12	Zinc [mg/l]	BDL (<0.01)	IS 3025 (Part 49) : 1994 RA 2019	5.00	15.00
13	Alkalinity - T [mg/l]	303.8	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	-	-
16	Cobalt [mg/l]	BDL(<0.01)	APHA :2017 :3111-B	-	-
17	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2019	0.001	-
18	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
19	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2019	0.02	-
20	Total Solids [mg/l]	1032	IS 3025 (part 15) : 1984 RA 2019	-	-

Notes :-

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**Balram Agarwal**  
Senior Analyst

**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: TC50252210000867 )



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



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**TEST REPORT**

Report No./ULR No.:	TC502522100009666	Date :	30-05-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Potable and Domestic Water	Date of Sample Collection/Monitoring :	20-05-2022
Point of Collection :	Raghunathpura Village	Date of Receipt :	24-05-2022
Date of Test/Analysis :	24-05-2022 to 30-05-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2ltr.	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Anurag Khandelwal	Condition of Sample :	Fit for testing

**RESULTS**

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	pH	7.60	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
2	Hardness (total) [mg/l]	219.23	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]	77.14	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	909	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]	196.3	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	-



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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
10	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1986 RA 2019	0.01	-
11	Lead [mg/l]	BDL (<0.01)	IS 3025 (Part 47) : 1994 RA 2019	0.01	-
12	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994 RA 2019	5.00	15.00
13	Alkalinity - T [mg/l]	321.44	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	-	-
16	Cobalt [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	-	-
17	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2019	0.001	-
18	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
19	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2019	0.02	-
20	Total Solids [mg/l]	916	IS 3025 (part 15) : 1984 RA 2019	-	-

Notes :-

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*Balram Agarwal*  
 Balram Agarwal  
 Senior Analyst

*Rajesh Maheshwari*  
 Rajesh Maheshwari  
 Authorized Signatory  
 (Report No: TC502522100000868 )



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Email : marketinglab@teamtesthouse.com

**TEST REPORT**

Report No./ULR No.:	TC502522100000869	Date :	30-05-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Potable and Domestic Water	Date of Sample Collection/Monitoring :	20-05-2022
Point of Collection	Amarpura Village	Date of Receipt :	24-05-2022
Date of Test/Analysis :	24-05-2022 to 30-05-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2ltr.	Sample Collected By :	Krishna Murari
Unit's representative :	Mr Anurag Khandelwal	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	7.91	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
2	Hardness (total) [mg/l]	203.85	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]	91.6	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	1098	IS 3025 (Part 15) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	21.5	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
7	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
8	Sulphate [mg/l]	54.5	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	-

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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
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	-
12	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994 RA 2019	5.00	15.00
13	Alkalinity - T [mg/l]	686	IS 3025 (Part 23) : 1986 RA 2019	200.00	600.00
14	Suspended Solids [mg/l]	10	IS 3025 (Part 17) : 1984 RA 2017	-	-
15	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2019	-	-
16	Cobalt [mg/l]	BDL(<0.01)	APHA :2017-3111-B	-	-
17	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2019	0.001	-
18	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
19	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2019	0.02	-
20	Total Solids [mg/l]	1108	IS 3025 (part 15) : 1984 RA 2019	-	-

Notes :-

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**Balram Agarwal**  
Senior Analyst

**Rajesh Maheshwari**  
Authorized Signatory  
(Report No: TC50252210000869 )



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TEST REPORT

Report No./ULR No.:	TC502522100000870	Date :	30-05-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Potable and Domestic Water	Date of Sample Collection/Monitoring :	20-05-2022
Point of Collection :	Bamania Kalan Village	Date of Receipt :	24-05-2022
Date of Test/Analysis :	24-05-2022 to 30-05-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2ltr.	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Anurag Khandelwal	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	8.03	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
2	Hardness (total) [mg/l]	61.54	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]	110.89	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	687	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	6.54	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]	91.25	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	-

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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
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	-
12	Zinc [mg/l]	BDL (<0.01)	IS 3025 (Part 49) : 1994 RA 2019	5.00	15.00
13	Alkalinity - T [mg/l]	297.92	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	-	-
16	Cobalt [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	-	-
17	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2019	0.001	-
18	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
19	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2019	0.02	-
20	Total Solids [mg/l]	693	IS 3025 (part 15) : 1984 RA 2019	-	-

Notes :

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**Balram Agarwal**  
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Balram Agarwal

**Rakesh Mahesnwar**  
Authorized Signatory  
(Report No. TC502522100000870 )



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**TEST REPORT**

Report No./ULR No.:	TC502522100000871	Date:	30-05-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P. O. - Dariba - 313211, Distt. Rajsamand (Rajasthan)	Type of Unit :	Mines
Type of Sample :	Portable and Domestic Water	Date of Sample Collection/Monitoring :	20-05-2022
Point of Collection :	Sindersar Khurd Village	Date of Receipt :	24-05-2022
Date of Test/Analysis :	24-05-2022 to 30-05-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2ltr.	Sample Collected By :	Krishna Murari
Unit's representative :	Mr Anurag Khandelwal	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	6.88	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
2	Hardness (total) [mg/l]	423.08	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
3	Iron [mg/l]	BDL (<0.01)	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
4	Chloride [mg/l]	106.07	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	769	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]	153.75	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	-



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 Email : [marketinglab@teamtesthouse.com](mailto: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
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	-
12	Zinc [mg/l]	BDL (<0.01)	IS 3025 (Part 49) : 1994 RA 2019	5.00	15.00
13	Alkalinity - T [mg/l]	333.2	IS 3025 (Part 23) : 1986 RA 2019	200.00	600.00
14	Suspended Solids [mg/l]	?	IS 3025 (Part 17) : 1984 RA 2017	-	-
15	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2019	-	-
16	Cobalt [mg/l]	BDL(<0.01)	APHA :2017.3111-B	-	-
17	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2019	0.001	-
18	Cyanide [mg/l]	BDL (<0.01)	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
19	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2019	0.02	-
20	Total Solids [mg/l]	776	IS 3025 (part 15) : 1984 RA 2019	-	-

Notes :-

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**Balram Agarwal**  
 Senior Analyst

**Rajesh Mageshwar**  
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**TEST REPORT**

Report No./ULR No.:	TC502522100001618	Date :	08-08-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Danba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Potable and Domestic Water	Date of Sample Collection/Monitoring :	28-08-2022
Point of Collection :	Reimgra	Date of Receipt :	01-09-2022
Date of Test/Analysis :	01-09-2022 to 08-09-2022	Sampling Plan :	IS 3025:1987(Part 1)RA-2014
Quantity of Sample :	2 Ltr.	Sample Collected By :	Kishan murari
Unit's representative :	Mr Sunil Chouhan	Condition of Sample :	Fit for testing

**RESULTS**

S.No	Parameters	Observed Value	Testing Protocol	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	7.23	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
2	Hardness (total) [mg/l]	358.49	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]	169.95	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	991	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	45.85	IS 3025 (Part 45) : 1994 RA 2019	30.00	100.00
7	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
8	Sulphate [mg/l]	54.68	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	-

K. S. P. T. H. O. P. A. D. H. Y. A. Y.



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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
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	-
12	Zinc [mg/l]	BDL (<0.01)	IS 3025 (Part 49) : 1994 RA 2019	5.00	15.00
13	Alkalinity - T [mg/l]	372.4	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	-	-
16	Cobalt [mg/l]	BDL(<0.01)	APHA :2017 :3111-B	-	-
17	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2019	0.001	-
18	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
19	Nickel [mg/l]	BDL (<0.01)	IS 3025 (Part 54) : 2003 RA 2019	0.02	-
20	Total Solids [mg/l]	998	IS 3025 (part 15) : 1984 RA 2019	-	-

Notes :-

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Balram  
Balram Agarwal  
Balram Analyst

**K.N. MUKUNDAN**  
Authorized Signatory  
(Report No: TC502522100001618 )



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**TEST REPORT**

Report No./ULR No.:	TC502522100001619	Date:	09-09-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Portable and Domestic Water	Date of Sample Collection/Monitoring :	28-08-2022
Point of Collection :	Rajpura Village	Date of Receipt :	01-09-2022
Date of Test/Analysis :	01-09-2022 to 09-09-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	Sample Collected By :	Kishan murari
Unit's representative :	Mr. Sunil Chouhan	Condition of Sample :	Fit for testing

**RESULTS**

S.No	Parameters	Observed Value	Testing Protocol	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	7.35	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
2	Hardness (total) [mg/l]	330.19	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
3	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
4	Chloride [mg/l]	79.98	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	778	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	25.22	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]	280	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	<i>[Signature]</i>



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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
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	-
12	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994 RA 2019	5.00	15.00
13	Alkalinity - T [mg/l]	258.72	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	-	-
16	Cobalt [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	-	-
17	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2019	0.001	-
18	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
19	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2019	0.02	-
20	Total Solids [mg/l]	782	IS 3025 (part 15) : 1984 RA 2019	-	-

Notes:-

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*Balram Agarwal*  
 Balram Agarwal  
 Senior Analyst

*K.N. Mukhopadhyay*  
 Authorized Signatory  
 (Report No: TC502522160001619 )



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TEST REPORT

Report No./ULR No.:	TC502522100001620	Date :	08-09-2022	
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines	
Type of Sample :	Potable and Domestic Water	Date of Sample Collection/Monitoring :	28-08-2022	
Point of Collection :	Raghunathpura Village	Date of Receipt :	01-09-2022	
Date of Test/Analysis :	01-09-2022 to 08-09-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014	
Quantity of Sample :	2 Ltr.	Sample Collected By :	kishan murari	
Unit's representative :	Mr Sunil Chouhan	Condition of Sample :	Fit for testing	

RESULTS

S.No.	Parameters	Observed Value	Testing Protocol	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	7.48	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
2	Hardness (total) [mg/l]	235.85	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]	77.98	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	763	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	22.92	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]	190.62	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	-

*K.N. MUKHOPADHYAY*



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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
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	-
12	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994 RA 2019	5.00	15.00
13	Alkalinity - T [mg/l]	392	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	-	-
16	Cobalt [mg/l]	BDL(<0.01)	APHA : 2017 : 3111-B	-	-
17	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2019	0.001	-
18	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
19	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2019	0.02	-
20	Total Solids [mg/l]	766	IS 3025 (part 15) : 1984 RA 2019	-	-

Notes :-

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**Balram Agarwal**  
 Senior Analyst

**K.N. MUKHOPADHYAY**  
 Authorized Signatory  
 (Report No: TC502522100001620 )



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TEST REPORT

Report No./JLR No.:	TC502522100001621	Date:	08-09-2022	
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit:	Mines	
Type of Sample :	Portable and Domestic Water	Date of Sample Collection/Monitoring :	28-08-2022	
Point of Collection :	Amarpura Village	Date of Receipt :	01-09-2022	
Date of Test/Analysis :	01-09-2022 to 08-09-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014	
Quantity of Sample :	2 Ltr.	Sample Collected By :	kishan murari	
Unit's representative :	Mr Sunil Chouhan	Condition of Sample :	Fit for testing	

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	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	7.36	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
2	Hardness (total) [mg/l]	226.42	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]	105.97	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	980	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	20.63	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
7	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
8	Sulphate [mg/l]	48.75	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	-

K.L. MUKHERJEE/PA/2022



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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
10	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1986 RA 2019	0.01	-
11	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2019	0.01	-
12	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994 RA 2019	5.00	15.00
13	Alkalinity - T [mg/l]	646.8	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	-	-
16	Cobalt [mg/l]	BDL(<0.01)	APHA :2017:3111-B	-	-
17	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2019	0.001	-
18	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
19	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2019	0.02	-
20	Total Solids [mg/l]	983	IS 3025 (part 15) : 1984 RA 2019	-	-

Notes :-

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**Balram Agarwal**  
 Senior Analyst

Authorized Signatory  
 (Report No: TC502522100001621 )



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Email : marketinglab@teamtesthouse.com

**TEST REPORT**

Report No./ULR No.:	TC502522100001622	Date :	08-09-2022	
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines	
Type of Sample :	Portable and Domestic Water	Date of Sample Collection/Monitoring :	28-08-2022	
Point of Collection :	Bamania Kalan Village	Date of Receipt :	01-09-2022	
Date of Test/Analysis :	01-09-2022 to 08-09-2022	Sampling Plan :	IS 3025:1987 (Part 1)RA 2014	
Quantity of Sample :	2 Ltr.	Sample Collected By :	kishan murari	
Unit's representative :	Mr Sunil Chouhan	Condition of Sample :	Fit for testing	

**RESULTS**

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	pH	7.93	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
2	Hardness (total) [mg/l]	62.26	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
3	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
4	Chloride [mg/l]	111.97	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	623	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	5.5	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]	71.87	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	-

K.N. MUKHOPADHYAY



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Email : [marketinglab@teamtesthouse.com](mailto: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
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	-
12	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994 RA 2019	5.00	15.00
13	Alkalinity - T [mg/l]	290.08	IS 3025 (Part 23) : 1986 RA 2019	200.00	600.00
14	Suspended Solids [mg/l]	2	IS 3025 (Part 17) : 1984 RA 2017	-	-
15	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2019	-	-
16	Cobalt [mg/l]	BDL(<0.01)	APHA :2017 :3111-B	-	-
17	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2019	0.001	-
18	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
19	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2019	0.02	-
20	Total Solids [mg/l]	625	IS 3025 (part 15) : 1984 RA 2019	-	-

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**Bairam Agarwal**  
Senior Analyst

**K.N. MUKHOPADHYAY**  
Authorized Signatory  
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**TEST REPORT**

Report No./ULR No.	TC502522100001623	Date	08-09-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Portable and Domestic Water	Date of Sample Collection/Monitoring :	28-08-2022
Point of Collection :	Sindesar Khurd Village	Date of Receipt :	01-09-2022
Date of Test/Analysis :	01-09-2022 to 08-09-2022	Sampling Plan:	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	Sample Collected By :	Kishan murari
Unit's representative :	Mr Sunil Chouhan	Condition of Sample :	Fit for testing

**RESULTS**

S.No	Parameters	Observed Value	Testing Protocol	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	7.06	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
2	Hardness (total) [mg/l]	332.08	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
3	Iron [mg/l]	BDL (<0.01)	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
4	Chloride [mg/l]	39.99	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	475	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	16.51	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]	65.50	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	-

K.N. MUKHOPADHYAY



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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
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	-
12	Zinc [mg/l]	BDL (<0.01)	IS 3025 (Part 49) : 1994 RA 2019	5.00	15.00
13	Alkalinity - T [mg/l]	313.6	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	-	-
16	Cobalt [mg/l]	BDL(<0.01)	APHA 2017:3111- B	-	-
17	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2019	0.001	-
18	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
19	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2019	0.02	-
20	Total Solids [mg/l]	481	IS 3025 (part 15) : 1984 RA 2019	-	-

Notes:-

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Balram Agarwal

K.N. MUKHOPADHYAY  
Authorized Signatory  
(Report No: TC502522100001623 )



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TEST REPORT

Report No./ULR No.:	TC502522100001624	Date :	08-09-2022	
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt: Rajsamand (Rajasthan),	Type of Unit :	Mines	
Type of Sample :	Potable and Domestic Water	Date of Sample Collection/Monitoring :	28-08-2022	
Point of Collection	Sunariya Kheda.	Date of Receipt :	01-09-2022	
Date of Test/Analysis :	01-09-2022 to 08-09-2022	Sampling Plan :	IS 3025:1987 (Part 1)RA 2014	
Quantity of Sample :	2 Ltr.	Sample Collected By :	kishan murari	
Unit's representative :	Mr. Sunil Chouhan	Condition of Sample :	Fit for testing	

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	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	8.35	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
2	Hardness (total) [mg/l]	188.68	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]	119.96	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	855	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	27.51	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]	51.25	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	<i>[Signature]</i>

*[Signature]*



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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
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	-
12	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994 RA 2019	5.00	15.00
13	Alkalinity - T [mg/l]	401.8	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	-	-
16	Cobalt [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	-	-
17	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2019	0.001	-
18	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
19	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2019	0.02	-
20	Total Solids [mg/l]	861	IS 3025 (part 15) : 1984 RA 2019	-	-

Notes :-

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*Balram Agarwal*  
Balram Agarwal  
Senior Analyst

*K.N. Mukhopadhyay*  
K.N. Mukhopadhyay  
Authorized Signatory  
(Report No: TC502522100001624 )



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TEST REPORT

Report No./ULR No.:	TC502522100001625	Date :	09-09-2022	
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines	
Type of Sample :	Potable and Domestic Water	Date of Sample Collection/Monitoring :	28-08-2022	
Point of Collection :	Bamniya Kalan	Date of Receipt :	01-09-2022	
Date of Test/Analysis :	01-09-2022 to 09-09-2022	Sampling Plan :	IS 3025:1987 Part 1)RA 2014	
Quantity of Sample :	2 Ltr.	Sample Collected By :	Kishan muran	
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	8.35	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
2	Hardness (total) [mg/l]	35.85	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]	74.98	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	505	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	2.75	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
7	Copper [mg/l]	BDL(<0.01)	IS 3025 (Part 42) : 1992 RA 2019	0.05	1.50
8	Sulphate [mg/l]	71.12	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	-

*[Signature]*  
**K.N. MUKHOPADHYAY**



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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
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	-
12	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994 RA 2019	5.00	15.00
13	Alkalinity - T [mg/l]	266.56	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 28) : 1986 RA 2019	-	-
16	Cobalt [mg/l]	BDL(<0.01)	APHA 2017:3111-E	-	-
17	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2019	0.001	-
18	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
19	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2019	0.02	-
20	Total Solids [mg/l]	512	IS 3025 (part 15) : 1984 RA 2019	-	-

Notes:-

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*Balram Agarwal*  
 Balram Agarwal  
 Senior Analyst

*K. P. D. Agarwal*  
 Authorized Signatory  
 (Report No: TC502522100001625 )



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**TEST REPORT**

Report No./ULR No.:	TC502522100001626	Date :	09-09-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Daniba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Potable and Domestic Water	Date of Sample Collection/Monitoring :	28-08-2022
Point of Collection :	Banas River	Date of Receipt :	01-09-2022
Date of Test/Analysis :	01-09-2022 to 09-09-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	Sample Collected By :	Kishan murari
Unit's representative :	Mr Sunil Chouhan	Condition of Sample :	Fit for testing

**RESULTS**

S.No	Parameters	Observed Value	Testing Protocol	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	8.15	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
2	Hardness (total) [mg/l]	169.81	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]	47.99	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	269	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	16.51	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]	22.62	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	-

K.N. MUKHOPADHYAY



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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
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	-
12	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994 RA 2019	5.00	15.00
13	Alkalinity - T [mg/l]	196	IS 3025 (Part 23) : 1986 RA 2019	200.00	600.00
14	Suspended Solids [mg/l]	61	IS 3025 (Part 17) : 1984 RA 2017	-	-
15	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2019	-	-
16	Cobalt [mg/l]	BDL(<0.01)	APHA :2017-3111-B	-	-
17	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2019	0.001	-
18	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
19	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2019	0.02	-
20	Total Solids [mg/l]	350	IS 3025 (part 15) : 1984 RA 2019	-	-

## Notes :-

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Balram Agarwal  
 Senior Analyst

K.N. MUKHOPADHYAY  
 Authorized Signatory  
 (Report No: TC50252210001626 )



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**TEST REPORT**

Report No./ULR No.:	TC502522100001627	Date:	09-09-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Potable and Domestic Water	Date of Sample Collection/Monitoring :	28-08-2022
Point of Collection :	Regunath pura	Date of Receipt :	01-09-2022
Date of Test/Analysis :	01-09-2022 to 09-09-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	Sample Collected By :	Kishan murari
Unit's representative :	Mr Sunil Chouhan	Condition of Sample :	Fit for testing

**RESULTS**

S.No	Parameters	Observed Value	Testing Protocol	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	7.85	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
2	Hardness (total) [mg/l]	181.13	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]	64.98	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	782	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	12.84	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]	170.50	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	-

*[Signature]*  
Kishan murari  
P.M.T. PADIYAY



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



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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
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	-
12	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994 RA 2019	5.00	15.00
13	Alkalinity - T [mg/l]	235.2	IS 3025 (Part 23) : 1986 RA 2019	200.00	600.00
14	Suspended Solids [mg/l]	10	IS 3025 (Part 17) : 1984 RA 2017	-	-
15	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2019	-	-
16	Cobalt [mg/l]	BDL(<0.01)	APHA : 2017 : 3111-B	-	-
17	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2019	0.001	-
18	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
19	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2019	0.02	-
20	Total Solids [mg/l]	792	IS 3025 (part 15) : 1984 RA 2019	-	-

Notes :-

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*Balraj*  
 Senior Analyst

*K.N. Mukhopadhyay*  
 Authorized Signatory  
 (Report No: TC502522100001627 )



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



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**TEST REPORT**

Report No./ULR No.:	TC502522100001628	Date :	09-09-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Portable and Domestic Water	Date of Sample Collection/Monitoring :	28-08-2022
Point of Collection	Bharai Dam	Date of Receipt :	01-09-2022
Date of Test/Analysis :	01-09-2022 to 09-09-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Chouhan	Condition of Sample :	Fit for testing

**RESULTS**

S.No	Parameters	Observed Value	Testing Protocol	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	7.31	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
2	Hardness (total) [mg/l]	73.58	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
3	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
4	Chloride [mg/l]	5	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
5	Total Dissolved Solids [mg/l]	125	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
6	Magnesium [mg/l]	5.04	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]	4.37	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	-

K.N. MUKHOPADHYAY



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

JDA/UDH

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
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	-
12	Zinc [mg/l]	0.02	IS 3025 (Part 49) : 1994 RA 2019	5.00	15.00
13	Alkalinity - T [mg/l]	99.96	IS 3025 (Part 23) : 1986 RA 2019	200.00	600.00
14	Suspended Solids [mg/l]	49	IS 3025 (Part 17) : 1984 RA 2017	-	-
15	Free Residual Chlorine [mg/l]	BDL(<0.1)	IS 3025 (Part 26) : 1986 RA 2019	-	-
16	Cobalt [mg/l]	BDL(<0.01)	APHA :2017 :3111-B	-	-
17	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2019	0.001	-
18	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2019	0.05	-
19	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2019	0.02	-
20	Total Solids [mg/l]	174	IS 3025 (part 15) : 1984 RA 2019	-	-

Notes :-

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*Balram*  
Balram Agarwal  
Senior Analyst

*K.S.V. Mukhopadhyay*  
Authorized Signatory  
(Report No: TC502522100001628 )



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ANNEXURE -XIII

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Email : [marketinglab@teamtesthouse.com](mailto:marketinglab@teamtesthouse.com)

JDA/UDH

TEST REPORT

Report No./ULR No. :	TC50252210000882	Date :	10-06-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Daniba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Potable and Domestic Water	Date of Sample Collection/Monitoring :	20-05-2022
Point of Collection :	PW-1	Date of Receipt :	27-05-2022
Date of Test/Analysis :	27-05-2022 to 10-06-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	Sample Collected By :	kishan murari
Unit's representative :	Mr Anurag Khandelwal	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.60	IS 3025 (Part 11) : 1993 RA 2017
2	Hardness (total) [mg/l]	519.23	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	0.09	IS 3025 (Part 53) : 2003 RA 2019
4	Chloride [mg/l]	458.01	IS 3025 (Part 32) : 1988 RA 2019
5	Total Dissolved Solids [mg/l]	1929	IS 3025 (Part 16) : 1984 RA 2017
6	Magnesium [mg/l]	74.77	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]	290.6	IS 3025 (Part 24) : 1986 RA 2019
9	Cadmium [mg/l]	BDL (<0.001)	IS 3025 (Part 41) : 1992 RA 2019
10	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2019
11	Lead [mg/l]	BDL (<0.01)	IS 3025 (Part 47) : 1994 RA 2019
12	Zinc [mg/l]	0.02	IS 3025 (Part 49) : 1994 RA 2019

*Rajesh Mahajanwan*



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Email : [marketinglab@teamtesthouse.com](mailto:marketinglab@teamtesthouse.com)

S.No	Parameters	Observed Value	Testing Protocol
13	Alkalinity - T [mg/l]	480.2	IS 3025 (Part 23) : 1986 RA 2019
14	Suspended Solids [mg/l]	12	IS 3025 (Part 17) : 1984 RA 2017
15	Cobalt [mg/l]	BDL (<0.01)	APHA :2017 :3111-B
16	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2019
17	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2019
18	Nickel [mg/l]	BDL (<0.01)	IS 3025 (Part 54) : 2003 RA 2019
19	Total Solids [mg/l]	1941	IS 3025 (part 15) : 1984 RA 2019

Notes :-

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**Balram Agarwal**  
Senior Analyst

**Rajesh Matheeswaran**  
Authorized Signatory  
(Report No: TC502522100000882 )



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**TEST REPORT**

Report No./ULR No.:	TC50252210000883	Date :	10-06-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Potable and Domestic Water	Date of Sample Collection/Monitoring :	20-05-2022
Point of Collection :	PW-2	Date of Receipt :	27-05-2022
Date of Test/Analysis :	27-05-2022 to 10-06-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	Sample Collected By :	kishan murari
Unit's representative :	Mr Anurag Khandelwal	Condition of Sample :	Fit for testing

**RESULTS**

S.No	Parameters	Observed Value	Testing Protocol
1	pH	6.93	IS 3025 (Part 11) : 1983 RA 2017
2	Hardness (total) [mg/l]	490.38	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	BDL (<0.01)	IS 3025 (Part 53) : 2008 RA 2019
4	Chloride [mg/l]	482.12	IS 3025 (Part 32) : 1988 RA 2019
5	Total Dissolved Solids [mg/l]	1853	IS 3025 (Part 16) : 1984 RA 2017
6	Magnesium [mg/l]	56.07	IS 3025 (Part 46) : 1994 RA 2019
7	Copper [mg/l]	BDL (<0.01)	IS 3025 (Part 42) : 1992 RA 2019
8	Sulphate [mg/l]	361.8	IS 3025 (Part 24) : 1986 RA 2019
9	Cadmium [mg/l]	BDL (<0.001)	IS 3025 (Part 41) : 1992 RA 2019
10	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2019
11	Lead [mg/l]	BDL (<0.01)	IS 3025 (Part 47) : 1994 RA 2019
12	Zinc [mg/l]	0.02	IS 3025 (Part 49) : 1994 RA 2019

Rajeshwar



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Email : [marketinglab@teamtesthouse.com](mailto:marketinglab@teamtesthouse.com)

S.No	Parameters	Observed Value	Testing Protocol
13	Alkalinity - T [mg/l]	225.4	IS 3025 (Part 23) : 1986 RA 2019
14	Suspended Solids [mg/l]	8	IS 3025 (Part 17) : 1984 RA 2017
15	Cobalt [mg/l]	BDL (<0.01)	APHA :2017 3111-B
16	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2019
17	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2019
18	Nickel [mg/l]	BDL (<0.01)	IS 3025 (Part 54) : 2003 RA 2019
19	Total Solids [mg/l]	1861	IS 3025 (part 15) : 1984 RA 2019

Notes :-

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Senior Analyst

Authorized Signatory  
(Report No: TC502522100000883 )



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**TEST REPORT**

Report No./ULR No.:	TC502522100000884	Date :	10-06-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Portable and Domestic Water	Date of Sample Collection/Monitoring :	20-05-2022
Point of Collection :	PW-3	Date of Receipt :	27-05-2022
Date of Test/Analysis :	27-05-2022 to 10-06-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	Sample Collected By :	Kishan murari
Unit's representative :	Mr Anurag Khendelwal	Condition of Sample :	Fit for testing

**RESULTS**

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.01	IS 3025 (Part 11) : 1983 RA 2017
2	Hardness (total) [mg/l]	509.62	IS 3025 (Part 21) : 2009 RA 2019
3	Iron [mg/l]	0.08	IS 3025 (Part 53) : 2003 RA 2019
4	Chloride [mg/l]	318.2	IS 3025 (Part 32) : 1988 RA 2019
5	Total Dissolved Solids [mg/l]	1893	IS 3025 (Part 16) : 1984 RA 2017
6	Magnesium [mg/l]	53.74	IS 3025 (Part 46) : 1994 RA 2019
7	Copper [mg/l]	BDL (<0.01)	IS 3025 (Part 42) : 1992 RA 2019
8	Sulphate [mg/l]	371.9	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) : 1983 RA 2019
11	Lead [mg/l]	BDL (<0.01)	IS 3025 (Part 47) : 1994 RA 2019
12	Zinc [mg/l]	0.02	IS 3025 (Part 49) : 1994 RA 2019

Rajiv

Anurag Khendelwal



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S.No	Parameters	Observed Value	Testing Protocol
13	Alkalinity - T [mg/l]	215.6	IS 3025 (Part 23) : 1986 RA 2019
14	Suspended Solids [mg/l]	9	IS 3025 (Part 17) : 1984 RA 2017
15	Cobalt [mg/l]	BDL (<0.01)	APHA :2017 :3111-B
16	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2019
17	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2019
18	Nickel [mg/l]	BDL (<0.01)	IS 3025 (Part 54) : 2003 RA 2019
19	Total Solids [mg/l]	1902	IS 3025 (part 15) : 1984 RA 2019

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*Balwan Singh*  
Senior Analyst

*Rakesh Maheshwari*  
Authorized Signatory  
(Report No: TC502522100000884 )



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Email : marketinglab@teamtesthouse.com

**TEST REPORT**

Report No./ULR No.:	TC502522100000885	Date :	10-06-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Potable and Domestic Water	Date of Sample Collection/Monitoring :	20-05-2022
Point of Collection :	PW-4	Date of Receipt :	27-05-2022
Date of Test/Analysis :	27-05-2022 to 10-06-2022	Sampling Plan :	IS 3025:1987 (Part 1) RA 2014
Quantity of Sample :	2 Ltr.	Sample Collected By :	kishan murari
Unit's representative :	Mr Anurag Khandelwal	Condition of Sample :	Fit for testing

**RESULTS**

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.23	IS 3025 (Part 11) : 1983 RA 2017
2	Hardness (total) [mg/l]	471.15	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]	318.2	IS 3025 (Part 32) : 1988 RA 2019
5	Total Dissolved Solids [mg/l]	1759	IS 3025 (Part 16) : 1984 RA 2017
6	Magnesium [mg/l]	49.07	IS 3025 (Part 46) : 1994 RA 2019
7	Copper [mg/l]	BDL (<0.01)	IS 3025 (Part 42) : 1992 RA 2019
8	Sulphate [mg/l]	387.4	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
11	Lead [mg/l]	BDL (<0.01)	IS 3025 (Part 47) : 1994 RA 2019
12	Zinc [mg/l]	0.02	IS 3025 (Part 49) : 1994 RA 2019

*Anurag Khandelwal*  
Rajeshwar



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Email : [marketinglab@teamtesthouse.com](mailto:marketinglab@teamtesthouse.com)

S.No	Parameters	Observed Value	Testing Protocol
13	Alkalinity - T [mg/l]	264.6	IS 3025 (Part 23) : 1986 RA 2019
14	Suspended Solids [mg/l]	13	IS 3025 (Part 17) : 1984 RA 2017
15	Cobalt [mg/l]	BDL (<0.01)	APHA :2017 :3111-B
16	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2019
17	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2019
18	Nickel [mg/l]	BDL (<0.01)	IS 3025 (Part 54) : 2003 RA 2019
19	Total Solids [mg/l]	1772	IS 3025 (part 15) : 1984 RA 2019

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*Balaji*  
Balaji Anaval  
Senior Analyst

*Rajesh Mateshwari*  
Rajesh Mateshwari  
Authorized Signatory  
(Report No: TC50252210000885 )



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**TEST REPORT**

Report No./ULR No. :	TC502522100000886	Date :	10-06-2022	
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines	
Type of Sample :	Potable and Domestic Water	Date of Sample Collection/Monitoring :	20-05-2022	
Point of Collection :	PW-5	Date of Receipt :	27-05-2022	
Date of Test/Analysis :	27-05-2022 to 10-06-2022	Sampling Plan :	IS 3025:1987 (Part 1)RA 2014	
Quantity of Sample :	2 Ltr.	Sample Collected By :	kishan muran	
Unit's representative :	Mr Anurag Khandelwal	Condition of Sample :	Fit for testing	

**RESULTS**

S.No	Parameters	Observed Value	Testing Protocol	
1	pH	6.98	IS 3025 (Part 11) : 1983 RA 2017	
2	Hardness (total) [mg/l]	528.85	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]	639.97	IS 3025 (Part 32) : 1988 RA 2019	
5	Total Dissolved Solids [mg/l]	1963	IS 3025 (Part 16) : 1984 RA 2017	
6	Magnesium [mg/l]	70.09	IS 3025 (Part 46) : 1994 RA 2019	
7	Copper [mg/l]	BDL (<0.01)	IS 3025 (Part 42) : 1992 RA 2019	
8	Sulphate [mg/l]	387.2	IS 3025 (Part 24) : 1986 RA 2019	
9	Cadmium [mg/l]	BDL (<0.001)	IS 3025 (Part 41) : 1992 RA 2019	
10	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2019	
11	Lead [mg/l]	BDL (<0.01)	IS 3025 (Part 47) : 1994 RA 2019	
12	Zinc [mg/l]	0.09	IS 3025 (Part 49) : 1994 RA 2019	

Sgn/-  
Rajendra Singh



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

S.No	Parameters	Observed Value	Testing Protocol
13	Alkalinity - T [mg/l]	411.6	IS 3025 (Part 23) : 1986 RA 2019
14	Suspended Solids [mg/l]	12	IS 3025 (Part 17) : 1984 RA 2017
15	Cobalt [mg/l]	BDL (<0.01)	APHA :2017 :3111- B
16	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2019
17	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2019
18	Nickel [mg/l]	BDL (<0.01)	IS 3025 (Part 54) : 2003 RA 2019
19	Total Solids [mg/l]	1975	IS 3025 (part 15) : 1984 RA 2019

Notes :-

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*Balwant Singh*  
Balwant Singh  
Senior Analyst

*Rajesh Maheshwari*  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: TC502522100000886 )



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 Email : marketinglab@teamtesthouse.com

**TEST REPORT**

Report No./ULR No.:	TC502522100001634	Date :	12-09-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P. O. - Dariba - 313211, Distt. Rajsamand (Rajasthan)	Type of Unit :	Mines
Type of Sample :	Potable and Domestic Water	Date of Sample Collection/Monitoring :	28-08-2022
Point of Collection :	PW-6	Date of Receipt :	01-09-2022
Date of Test/Analysis :	01-09-2022 to 12-09-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Chouhan	Condition of Sample :	Fit for testing

**RESULTS**

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.64	IS 3025 (Part 11) : 1983 RA 2017
2	Hardness (total) [mg/l]	471.7	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]	111.97	IS 3025 (Part 32) : 1988 RA 2018
5	Total Dissolved Solids [mg/l]	913	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]	501.8	IS 3025 (Part 24) : 1986 RA 2019
9	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019
10	Arsenic [mg/l]	BDL(<0.001)	IS 3025 (Part 37) : 1988 RA 2019
11	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2019
12	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994 RA 2019



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Email : [marketing@teamtesthouse.com](mailto:marketing@teamtesthouse.com)

S.No	Parameters	Observed Value	Testing Protocol
13	Alkalinity - T [mg/l]	127.4	IS 3025 (Part 23) : 1986 RA 2019
14	Suspended Solids [mg/l]	16	IS 3025 (Part 17) : 1984 RA 2017
15	Cobalt [mg/l]	BDL(<0.01)	APHA :2017 3111-B
16	Mercury [mg/l]	BDL(<0.001)	IS 3025 (Part 48) : 1994 RA 2019
17	Cyanide [mg/l]	BDL(<0.01)	IS 3025 (Part 27) : 1986 RA 2019
18	Nickel [mg/l]	BDL(<0.01)	IS 3025 (Part 54) : 2003 RA 2019
19	Total Solids [mg/l]	929	IS 3025 (part 15) : 1984 RA 2019

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*Balram*  
Balram JEWALI  
Senior Analyst

*K.N. MITKHOPADHYAY*  
K.N. MITKHOPADHYAY  
Authorized Signatory  
(Report No: TC50252210001634 )



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**ANNEXURE - XIV**



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**TEST REPORT**

Report No./ULR No.:	TC50252260000779	Date :	05-05-2022
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 :	27-04-2022
Point of Collection :	Near Tailing Dam	Date of Receipt :	28-04-2022
Date of Test/Analysis :	28-04-2022 to 05-05-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Sitaram Jangid
Unit's representative :	Mr Anurag Khandelwal	Condition of Sample :	Fit for testing

**RESULTS**

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	63.1	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	55.2	IS 9989	65

Notes :-

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Senior Analyst

Ref:-  
**Rajendra Singh**  
 Authorized Signatory  
 (Report No: TC50252260000779 )



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### TEST REPORT

Report No./ULR No.:	TC502522600000778	Date :	05-05-2022
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 :	26-04-2022
Point of Collection :	Near Endline (Acquired Area)-Industrial Area	Date of Receipt :	28-04-2022
Date of Test/Analysis :	28-04-2022 to 05-05-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Anurag Khandelwal	Condition of Sample :	Fit for testing

### RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	65.7	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	56.8	IS 9989	65

Notes :-

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Senior Analyst

Rajesh Maheshwari  
Authorized Signatory  
(Report No: TC502522600000778 )



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**TEST REPORT**

Report No./ULR No.:	TC502522600000777	Date:	05-05-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajasamand (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	25-04-2022
Point of Collection :	Mine Area Boundary in NE Direction (Industrial Area)	Date of Receipt :	26-04-2022
Date of Test/Analysis :	28-04-2022 to 05-05-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Sitaram Jangid
Unit's representative :	Mr Anurag Khandelwal	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)]	63.3	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	55.7	IS 9989	65

Notes :-

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*Yogesh Patel*  
 Senior Analyst  
 Yogesh Patel

*Rakesh Khandelwal*  
 Authorized Signatory  
 (Report No: TC502522600000777 )



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### TEST REPORT

Report No./ULR No.	TC502522600000776	Date:	05-05-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Daniba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit:	Mines
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring:	25-04-2022
Point of Collection :	Rajpura Village	Date of Receipt :	28-04-2022
Date of Test/Analysis :	28-04-2022 to 05-05-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Anurag Khandelwal	Condition of Sample :	Fit for testing

### RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	53.8	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	40.5	IS 9989	45

Notes :-

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*Puran Patel Yogi*  
 Senior Analyst

*Rakesh Maneshwar*  
 Authorized Signatory  
 (Report No: TC502522600000776 )



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**TEST REPORT**

Report No./ULR No. :	TC502522600000775	Date :	05-05-2022
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 :	25-04-2022
Point of Collection :	Sindesar Khurd Village	Date of Receipt :	28-04-2022
Date of Test/Analysis :	28-04-2022 to 05-05-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Anurag Khandelwal	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)]	54.2	IS 9989	55
2	Noise Level (Night Time) ) : Leq [dB(A)]	41.5	IS 9989	45

Notes :-

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*[Signature]*  
Senior Analyst

*[Signature]*  
Authorized Signatory  
(Report No: TC502522600000775)



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**TEST REPORT**

Report No./JLR No.:	TC502522600000774	Date :	05-05-2022
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 :	25-04-2022
Point of Collection	Bamania Kalan Village	Date of Receipt :	26-04-2022
Date of Test/Analysis :	28-04-2022 to 05-05-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Sitaram jangid
Unit's representative :	Mr Anurag Khandelwal	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) : L <sub>eq</sub> [dB(A)]	53.6	IS 9989	55
2	Noise Level (Night Time) : L <sub>eq</sub> [dB(A)]	41.7	IS 9989	45

Notes :-

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*Puran Mai*  
Puran Mai 1091  
Sehdi Analyst

*Rajesh Maheshwari*  
Rajesh Maheshwari  
Authorized Signatory  
(Report No: TC502522600000774 )



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**TEST REPORT**

Report No./JULR No.:	TC502522600000899	Date:	01-06-2022
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 :	19-05-2022
Point of Collection :	Near Tailing Dam	Date of Receipt :	24-05-2022
Date of Test/Analysis :	24-05-2022 to 01-06-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krishna Murari
Unit's representative :	Mr Anurag Khandelwal	Condition of Sample :	Fit for testing

**RESULTS**

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	63.7	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	52.8	IS 9989	65

Notes :-

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Puran Mai Yogi  
 Senior Analyst

Authorized Signatory  
 (Report No: TC502522600000899)



**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

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JDA/UDH

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

**TEST REPORT**

Report No./JLR No.:	TC502522600000888	Date :	01-06-2022
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 :	19-05-2022
Point of Collection	Near Encine (Acquired Area)-Industrial Area	Date of Receipt :	24-05-2022
Date of Test/Analysis :	24-05-2022 to 01-06-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Anurag Khandelwal	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)]	50.4	IS 9989	65

Notes :-

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

*Puran Mehta Yogi*  
Puran Mehta Yogi  
Senior Analyst

*Rajesh Maheswari*  
Rajesh Maheswari  
Authorized Signatory  
(Report No: TC502522600000888 )



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



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Email : marketinglab@teamtesthouse.com

**TEST REPORT**

Report No./ULR No.:	TC502522600000887	Date :	01-06-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Daniba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	19-05-2022
Point of Collection :	Mine Area Boundary in NE Direction (Industrial Area)	Date of Receipt :	24-05-2022
Date of Test/Analysis :	24-05-2022 to 01-06-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krishna Murari
Unit's representative :	Mr Anurag Khandelwal	Condition of Sample :	Fit for testing

**RESULTS**

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	61.3	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	52.4	IS 9989	65

Notes :-

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

Rajesh Maheshwar  
Authorized Signatory

(Report No: TC502522600000887 )



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



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OHSAS 18001:2007

JDAAUDH

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 Shapera, Jaipur - 302022, Rajasthan  
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 Email : marketinglab@teamtesthouse.com

**TEST REPORT**

Report No./ULR No.:	TC502522600000885	Date :	01-06-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Daniba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	18-05-2022
Point of Collection :	Rajpura Village	Date of Receipt :	24-05-2022
Date of Test/Analysis :	24-05-2022 to 01-06-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krishna Muran
Unit's representative :	Mr Anurag Khandelwal	Condition of Sample :	Fit for testing

**RESULTS**

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	51.9	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	40.6	IS 9989	45

Notes:-

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*Puran Mai Yogi*  
 Senior Analyst

*Rakesh Maheshwari*  
 Authorized Signatory  
 (Report No: TC502522600000885 )



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



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**TEST REPORT**

Report No./ULR No.:	TC502522600000885	Date :	01-06-2022
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 :	18-05-2022
Point of Collection :	Sindesar Khurd Village	Date of Receipt :	24-05-2022
Date of Test/Analysis :	24-05-2022 to 01-06-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr. Anurag Khandelwal	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)]	43.4	IS 9989	45

Notes :-

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*Puran Mai Yogi*  
 Senior Analyst

*Rajesh Maheshwari*  
 Authorized Signatory

(Report No: TC502522600000885 )



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

**TEST REPORT**

Report No./ULR No.:	TC502522600000884	Date :	01-06-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Deriba - 313211, Distt. Rajsamand (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	18-05-2022
Point of Collection :	Bamaria Kalan Village	Date of Receipt :	24-05-2022
Date of Test/Analysis :	24-05-2022 to 01-06-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krishna Murari
Unit's representative :	Mr Anurag Khandelwal	Condition of Sample :	Fit for testing.

**RESULTS**

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	52.7	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	41.8	IS 9989	45

Notes :-

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*Puran Mai Yogi*  
Senior Analyst

*Rakesh Malhotra*  
Authorized Signatory  
(Report No: TC502522600000884 )



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**TEST REPORT**

Report No./JLR No.:	TC502522600001171	Date :	01-07-2022
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 :	19-06-2022
Point of Collection :	Near Tailing Dam	Date of Receipt :	25-06-2022
Date of Test/Analysis :	25-06-2022 to 04-07-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Anurag Khandelwal	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)]	65.8	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	57.7	IS 9989	65

Notes :-

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

*Rajan Maheshwari*  
Rajan Maheshwari  
(Report No: TC502522600001171)



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**TEST REPORT**

Report No./ULR No.:	TC502522600001170	Date :	04-07-2022
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 :	20-06-2022
Point of Collection :	Near Encline (Acquired Area)-Industrial Area	Date of Receipt :	25-06-2022
Date of Test/Analysis :	25-06-2022 to 04-07-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Anurag Khandelwal	Condition of Sample :	Fit for testing

**RESULTS**

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	63.4	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	55.6	IS 9989	65

Notes :-

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*Puran Mai Yogi*  
**Puran Mai Yogi**  
 Senior Analyst

*Rajesh Maheshwari*  
**Rajesh Maheshwari**  
 Authorized Signatory  
 (Report No: TC502522600001170 )



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**TEST REPORT**

Report No./JULR No.:	TC502522600001169	Date :	04-07-2022
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 :	18-06-2022
Point of Collection :	Mine Area Boundary in NE Direction (Industrial Area)	Date of Receipt :	25-06-2022
Date of Test/Analysis :	25-06-2022 to 04-07-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Anurag Khandelwal	Condition of Sample :	Fit for testing.

**RESULTS**

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	61.9	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	53.6	IS 9989	65

Notes :-

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Puran Mai Yogi  
Senior Analyst

Rakesh Maheshwari  
Authorized Signatory  
(Report No: TC502522600001169 )



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**TEST REPORT**

Report No./ULR No.:	TC502522600001168	Date :	04-07-2022
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 :	18-06-2022
Point of Collection :	Rajpura Village	Date of Receipt :	25-06-2022
Date of Test/Analysis :	25-06-2022 to 04-07-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Anurag Khandelwal	Condition of Sample :	Fit for testing

**RESULTS**

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	61.3	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	42.2	IS 9989	45

Notes :-

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**Puran Mai Yogi**  
Senior Analyst

**Rajeswari Maheshwari**  
Authorized Signatory  
(Report No. TC502522600001168 )



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**TEST REPORT**

Report No./JLR No.:	TC502522600001167	Date :	04-07-2022
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 :	18-06-2022
Point of Collection :	Sindesar Khurd Village	Date of Receipt :	25-06-2022
Date of Test/Analysis :	25-06-2022 to 04-07-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Anurag Khandelwal	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)]	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 Patel Yogt*  
Senior Analyst

*Rajesh Maheshwari*  
Authorized Signatory

(Report No: TC502522600001167.)



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



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TEST REPORT

Report No./ULR No.:	TC502522600001166	Date :	04-07-2022
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 :	18-06-2022
Point of Collection	Bamania Kalan Village	Date of Receipt :	24-06-2022
Date of Test/Analysis :	24-06-2022 to 04-07-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Anurag Khandelwal	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	56
2	Noise Level (Night Time) : Leq [dB(A)]	40.9	IS 9989	45

Notes :-

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Puran Mai Yogi  
 Senior Analyst

Rajesh Maheshwan  
 Authorized Signatory  
 (Report No: TC502522600001166 )



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**TEST REPORT**

Report No./ULR No.:	TC502522600001483	Date :	04-08-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajasamand (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	29-07-2022
Point of Collection :	Near Tailing Dam	Date of Receipt :	30-07-2022
Date of Test/Analysis :	30-07-2022 to 04-08-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Anurag Khandelwal	Condition of Sample :	Fit for testing

**RESULTS**

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	65.4	IS:9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	57.3	IS:9989	65

Notes :-

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*Pushali Mehta Yogi*  
Senior Analyst

*Rajesh Maheshwari*  
Authorized Signatory  
(Report No: TC502522600001483.)



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**TEST REPORT**

Report No./ULR No.:	TC502522600001482	Date:	04-08-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Daniba - 313211, Distt. Rajsamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	28-07-2022
Point of Collection :	Near Endline (Acquired Area)-Industrial Area	Date of Receipt :	30-07-2022
Date of Test/Analysis :	30-07-2022 to 04-08-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Anurag Khandelwal	Condition of Sample :	Fit for testing

**RESULTS**

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	63.7	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	54.8	IS 9989	70

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 Maiya  
Senior Analyst

Rajesh Maheshwari  
Authorized Signatory  
(Report No: TC502522600001482 )



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

**TEST REPORT**

Report No./ULR No.:	TC502522600001481	Date :	04-08-2022
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 :	28-07-2022
Point of Collection :	Mine Area Boundary in NE Direction (Industrial Area)	Date of Receipt :	30-07-2022
Date of Test/Analysis :	30-07-2022 to 04-08-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Anurag Khandelwal	Condition of Sample :	Fit for testing

**RESULTS**

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	61.2	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	54.3	IS 9989	70

Notes :-

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

*Rakesh Maheshwari*  
Authorized Signatory  
(Report No: TC502522600001481)



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**TEST REPORT**

Report No./ULR No.:	TC502522600001480	Date :	04-08-2022
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 :	29-07-2022
Point of Collection	Rajpura Village	Date of Receipt :	30-07-2022
Date of Test/Analysis :	30-07-2022 to 04-08-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Anurag Khandelwal	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)]	43.1	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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Purnima Arora  
Senior Analyst

Rajesh Maheshwari  
Authorized Signatory  
(Report No: TC502522600001480 )



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**TEST REPORT**

Report No./ULR No. :	TC502522600001479	Date :	04-08-2022
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 :	29-07-2022
Point of Collection	Sindesar Khurd Village	Date of Receipt :	30-07-2022
Date of Test/Analysis :	30-07-2022 to 04-08-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Anurag Khandelwal	Condition of Sample :	Fit for testing

**RESULTS**

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	52.7	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	43.2	IS 9989	45

Notes:-

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*Puran Patel*  
**Puran Patel**  
 Senior Analyst

*Rajesh Mehta*  
**Rajesh Mehta**  
 Authorized Signatory  
 (Report No: TC502522600001479 )



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Email : marketinglab@teamtesthouse.com

**TEST REPORT**

Report No./ULR No.:	TC502522600001478	Date :	04-08-2022
Issued To:	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Raigarh (Rajasthan),	Type of Unit:	Mines
Type of Sample:	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring:	29-07-2022
Point of Collection:	Bamania Kalan Village	Date of Receipt:	30-07-2022
Date of Test/Analysis:	30-07-2022 to 04-08-2022	Sampling Plan:	TTH/NOISE/01
Quantity of Sample:	-	Sample Collected By:	Vimal Kumar Yadav
Unit's representative:	Mr Anurag Khandelwal	Condition of Sample:	Fit for testing

**RESULTS**

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	51.3	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	42.5	IS 9989	45

Notes :-

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*Purnima Jaggi*  
Senior Analyst

*Rajeshwar Khandelwal*  
Authorized Signatory  
(Report No: TC502522600001478 )



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**TEST REPORT**

Report No./ULR No.:	TC502522600001659	Date:	05-09-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Raigarh (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	28-08-2022
Point of Collection :	Barnania Kalan Village	Date of Receipt :	31-08-2022
Date of Test/Analysis :	31-08-2022 to 05-09-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krishna 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)]	51.2	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	40.3	IS 9989	45

Notes :-

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

*[Signature]*  
K.N. MURHOPADHYAY

Authorized Signatory

(Report No: TC502522600001659)



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 Email : [marketinglab@teamtesthouse.com](mailto:marketinglab@teamtesthouse.com)

**TEST REPORT**

Report No./ULR No.:	TC502522600001660	Date :	05-09-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajasamand (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	28-08-2022
Point of Collection :	Sindesar Khurd Village	Date of Receipt :	31-08-2022
Date of Test/Analysis :	31-08-2022 to 05-09-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashna Muran
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)]	43.2	IS 9989	45

Notes :-

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Senior Analyst

Authorized Signatory

(Report No: TC502522600001660 )



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**TEST REPORT**

Report No./ULR No. :	TC502522600001661	Date :	05-09-2022
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 :	28-08-2022
Point of Collection :	Rajpura Village	Date of Receipt :	31-08-2022
Date of Test/Analysis :	31-08-2022 to 05-09-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krishna 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)]	52.3	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	41.8	IS 9989	45

Notes :-

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

*K.S.R*  
Authorized Signatory  
(Report No: TC502522600001661)



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**TEST REPORT**

Report No./ULR No.:	TC502522600001662	Date :	05-09-2022
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 Noise Level Monitoring	Date of Sample Collection/Monitoring	28-08-2022
Point of Collection :	Mine Area Boundary in NE Direction (Industrial Area)	Date of Receipt :	31-08-2022
Date of Test/Analysis :	31-08-2022 to 05-09-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krishna 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)]	60.6	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	52.2	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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*Purushottam Yogi*  
Purushottam Yogi  
Senior Analyst

*K.N. M. Arunachalam*  
K.N. M. Arunachalam  
Authorized Signatory  
(Report No: TC502522600001662 )



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**TEST REPORT**

Report No./LUR No.:	TC502522600001663	Date:	05-09-2022
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:	28-08-2022
Point of Collection:	Near Enclosure (Acquired Area)-Industrial Area	Date of Receipt:	31-08-2022
Date of Test/Analysis:	31-08-2022 to 05-09-2022	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, 1988
1	Noise Level (Day Time) : Leq [dB(A)]	59.8	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	50.7	IS 9989	65

Notes :-

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Senior Analyst:

**K.N. MUKHOPADHYAY**  
 Authorized Signatory  
 (Report No: TC502522600001663 )



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**TEST REPORT**

Report No./ULR No.:	TC50252260001664	Date :	05-09-2022
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 :	28-08-2022
Point of Collection	Near Tailing Dam	Date of Receipt :	31-08-2022
Date of Test/Analysis :	31-08-2022 to 05-09-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krishna 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)]	62.5	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	54.2	IS 9989	65

Notes :-

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Senior Analyst

Authorized Signatory  
(Report No: TC50252260001664 )



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JDA/UDII

Office : E-65, Chitrangan Marg,  
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Website : [www.teamtesthouse.com](http://www.teamtesthouse.com)  
Email : [team.bdhead@gmail.com](mailto:team.bdhead@gmail.com)

Laboratory : G1-584, RHCO Industrial Area,  
Sitsopura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460203649,  
Email : [director@teamtesthouse.com](mailto:director@teamtesthouse.com),  
Email : [marketinglab@teamtesthouse.com](mailto:marketinglab@teamtesthouse.com)

**TEST REPORT**

Report No./ULR No.:	TC502522600001996	Date :	04-10-2022
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 :	21-09-2022
Point of Collection :	Bamania Kalan Village	Date of Receipt :	28-09-2022
Date of Test/Analysis :	28-09-2022 to 04-10-2022	Sampling Plan :	TTH/NOISE/0
Quantity of Sample :	-	Sample Collected By :	Krishna Murari
Unit's representative :	Mr Sunil Chouhan	Condition of Sample :	Fit for testing

**RESULTS**

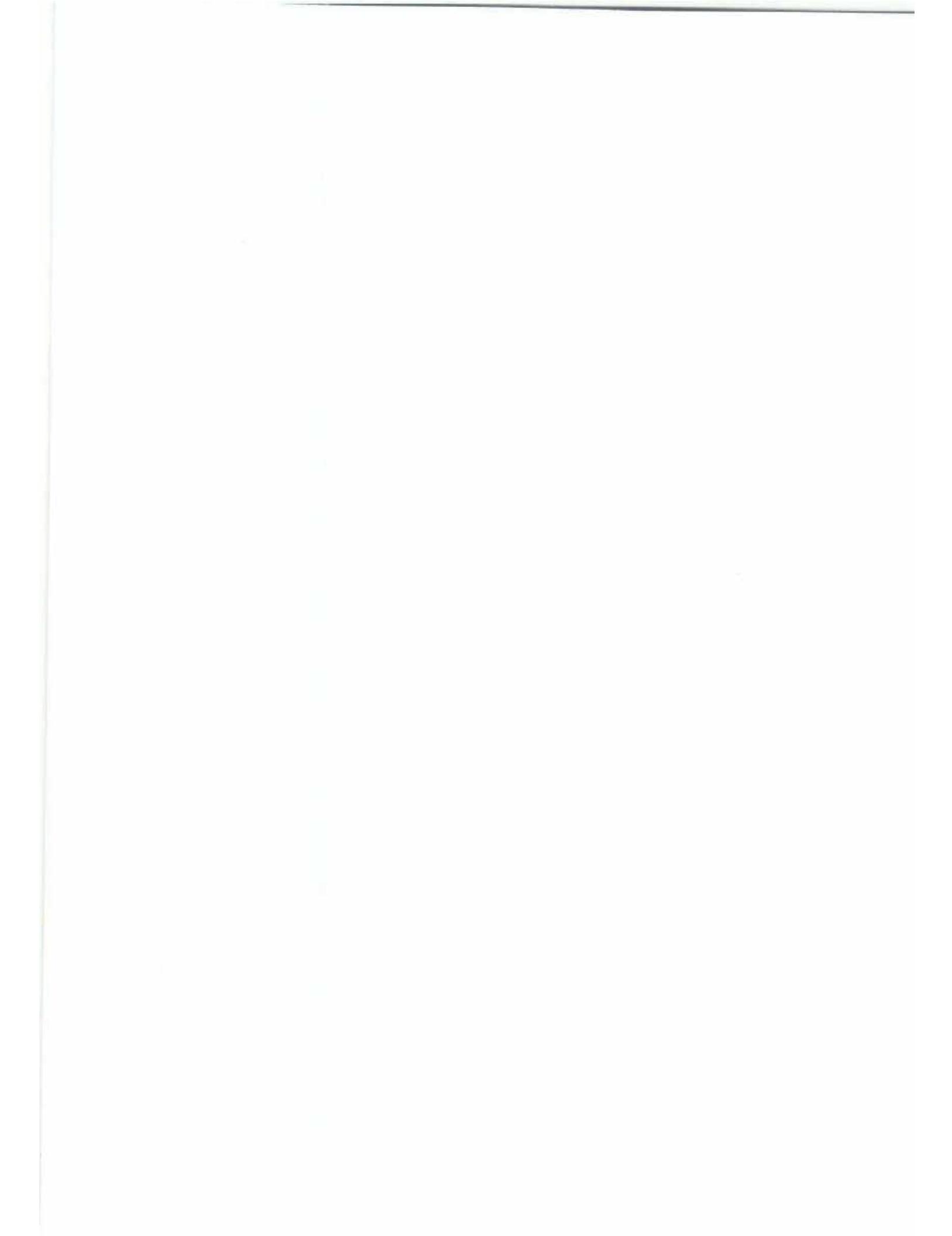
S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	52.6	IS 9989	55
2	Noise Level (Night Time) : Leq [dB(A)]	41.5	IS 9989	45

Notes :-

- # The results listed refer only to the tested 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.

**Sunil Kumar**  
Senior Analyst

**Rakesh Maheshwari**  
Authorized Signatory  
(Report No: TC502522600001996 )





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



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

RSPCB	ISO 9001:2015,	ISO 14001:2015,	ISO 45001:2018 (OH&S)	JDA/UDH
Office : E-65, Chitrajan Marg, C-Scheme, Jaipur - 302001, Rajasthan Phone : +91 6377210004, 9414077379, Website : <a href="http://www.teamtesthouse.com">www.teamtesthouse.com</a> Email : team.hdhead@gmail.com	Laboratory : G1-584, RIICO Industrial Area, Sitapura, Jaipur - 302022, Rajasthan Phone : +91 9460222039, 9460222049, Email : director@teamtesthouse.com, Email : marketinglab@teamtesthouse.com			

**TEST REPORT**

Report No./ULR No.:	TC502522600001998	Date :	04-10-2022
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 :	22-09-2022
Point of Collection :	Rajpura Village	Date of Receipt :	28-09-2022
Date of Test/Analysis :	28-09-2022 to 04-10-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krishna Muran
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)]	42.5	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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**Sunil Kumar**  
Senior Analyst

Authorized Signatory  
(Report No: TC502522600001998 )



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



Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory			
RSPCB	ISO 9001:2015,	ISO 14001:2015,	ISO 45001:2018 (OH&S) JDA/UDH
Office : E-65, Chitrangan Marg, C-Scheme, Jaipur - 302001, Rajasthan Phone : +91 9414077370, Website : <a href="http://www.teamtesthouse.com">www.teamtesthouse.com</a> 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. :	TC502522600001999	Date :	04-10-2022
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 :	22-09-2022
Point of Collection :	Mine Area Boundary in NE Direction (Industrial Area)	Date of Receipt :	28-09-2022
Date of Test/Analysis :	28-09-2022 to 04-10-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krishna Muran
Unit's representative :	Mr Sunil Chouhan	Condition of Sample :	Fit for testing

**RESULTS**

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	57.5	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	52.0	IS 9989	65

Notes :-

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

**Sunil Chouhan**  
 Senior Analyst

**Rajesh Mehta**  
 Authorized Signatory  
 (Report No: TC502522600001999 )



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RSPCB	Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory ISO 9001:2015, ISO 14001:2015,	ISO 45001:2018 (OH&S)	JDA/UDH
Office : E-65, Chitrangan Marg, C-Scheme, Jaipur - 302001, Rajasthan Phone : +91 9377210064, 9414077379. Website : <a href="http://www.teamtesthouse.com">www.teamtesthouse.com</a> Email : team.bdhead@gmail.com	Laboratory : G1-584, RHCO Industrial Area, Sitapura, Jaipur - 302022, Rajasthan Phone : +91 9460222039, 94602 2049, Email : director@teamtesthouse.com, Email : marketinglab@teamtesthouse.com		

**TEST REPORT**

Report No./ULR No. :	TC502522600002000	Date :	04-10-2022
Issued To :	M/S Hindustan Zinc Limited (Sindesar Khurd Mines) P.O. - Dariba - 313211, Distt. Rajasamand. (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	22-09-2022
Point of Collection :	Near Encine (Acquired Area)-Industrial Area	Date of Receipt :	28-09-2022
Date of Test/Analysis :	28-09-2022 to 04-10-2022	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)]	61.0	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	54.9	IS 9989	65

Notes :-

- # The results stated 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.

**Sunil Kumar**  
 Senior Analyst

**Rakesh Mehta**  
 Authorized Signatory  
 (Report No: TC502522600002000 )



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



RSPCB	Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory ISO 9001:2015,	ISO 14001:2015,	ISO 45001:2018 (OHS)	JDA/UDII
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**TEST REPORT**

Report No./JLR No.:	TC502522600002001	Date :	04-10-2022
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 :	22-09-2022
Point of Collection :	Near Tailing Dam	Date of Receipt :	28-09-2022
Date of Test/Analysis :	28-09-2022 to 04-10-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krishna Muran
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)]	54.6	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	47.5	IS 9989	65

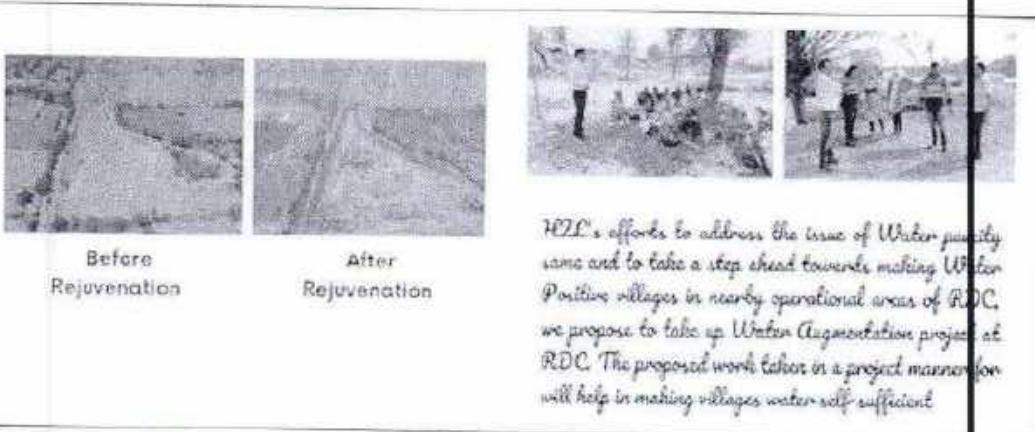
Notes:-

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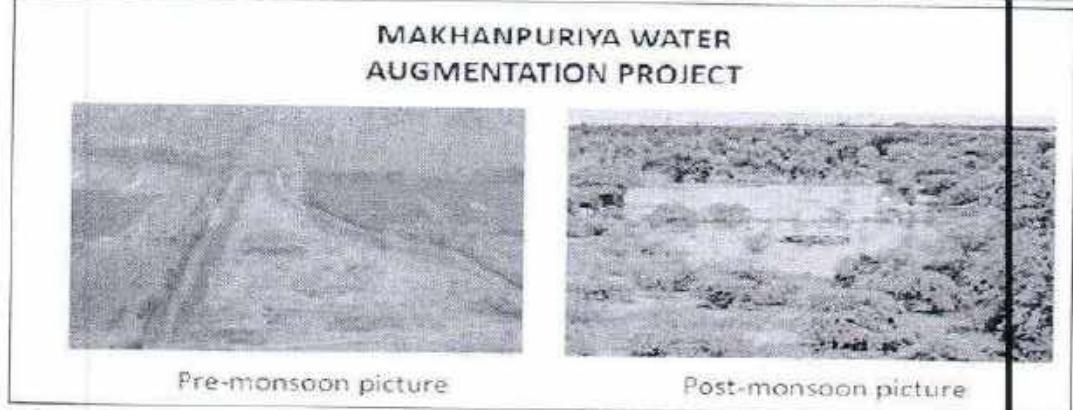
**Sunil Kumar**  
 Senior Analyst

**Rajesh Maheshwari**  
 Authorized Signatory  
 (Report No: TC502522600002001 )

## WATER AUGMENTATION PROJECT AT RDC



### MAKHANPURIYA WATER AUGMENTATION PROJECT



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



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





### Rajpura Dariba complex

#### CSR HIGHLIGHTS: April'22- September'22

##### **Community Safety Manual: सुरक्षा मार्गदर्शिक - LAUNCH & TOT BY CEO-IBU, RDC**

- **Session highlights:** HZL CSR has created a safety manual for community which includes aspects like home-based safety including LPG safety, electrical safety, first aid, ergonomics safety, safety around confined spaces, road safety, 5 S at home, COVID 19 safety etc.
- A total of 26 such active and committed master trainers came forward and enthusiastically participated in the training provided by the safety team. The trainees took a safety oath and a pledge towards a safer community along with CEO-IBU, RDC.



- Master trainers would further take up sessions in community

##### **Introductory meeting: CEO- IBU RDC with NGO Partners**

CEO-IBU RDC interacted with NGO partners and suggested valuable feedback for bringing in ESG element strongly in community. NGO partners along with central senior management team presented an overview of their respective flagship projects and highlighted major achievements & innovation for the year 2021-22.

## SKILL DEVELOPMENT PROJECT: ZINC KAUSHAL KENDRA:

### Safety awareness sessions

Fire and electricity safety sessions were conducted for all the running trades at center. Along with safety sessions focus was also given to the health of the trainees and sessions on first aid & general health were conducted as a part of it.

#### SAFETY FIRST IS SAFETY ALWAYS

**SAFETY FIRST :** Glimpses from our master trainers taking forward the safety practices from our recently launched community manual



Road Safety demonstration in front of office after a road accident in which the driver was injured.

45+ People participated in the session.

Trainees of Assistant Electrician trade repaired iron rod at Jeetawas which was 45mm above the road level and it was causing damage/ accidents to street animals and people who were crossing the place.



continued

### **LED BULB UNIT: Under Assistant Electrician trade, new training provided on how LED bulbs are made along with various other types of led bulb being manufactured**



### **HEALTH IS THE TOP PRIORITY**

World health day observed at Zinc Kaushal Kendra and following activities for creating health awareness were conducted:

1. Skit on health awareness



2. Online session across all Zinc Kaushal Kendra centers

3. Health check-up camp



#### SKILL ICON AWARD – AWARDED TO SHYAM LAL KUMAWAT FROM RAJSAMAND



#### CONVERGENCE WITH POLICE DEPARTMENT



Circle inspector of Rajsamand Ms. Sangeeta Banjara interacted with the trainees and made them aware about the various social issues like male and female safety, cybercrime, and precautionary measures any person should take in case of emergencies.

**Electrical camp by trainees at Bamaiya Kalan:**

Community members brought in their electrical appliances like: water pump motor ceiling fan, cooler, electrical induction, heater, butter-milk maker machine, table fan, torch. The trainees provided a free of cost service at the village worth around 15000 INR and this effort was appreciated by PRI members of the village.



**Strengthening entrepreneurs: short term Entrepreneurship Development course started**

Started an Entrepreneurship Development batch with 15 trainees for 10 days which will help them in strengthening their business and work according to the current market demand.

The outcome of this 10-day program will be:

1. Awareness of various financial services provided by the government.
2. Decrease in dependency on local moneylenders.
3. Increase positive mindset and risk-taking capabilities.
4. Transferring business from physical to digital space.

### 5. Providing E-Dukaan Kit



#### Graduation day of EDP batch

Graduation day was celebrated to motivate and appreciate the dedication of women. They were awarded at the hands of CSR, HZL. Interaction with the trainees on their experience of 10-day EDP course.



## **WORLD YOUTH SKILLS Day; Celebrating the youth of our community**

Zinc Kaushal Kendra celebrates World Youth Skills Day to celebrate the strategic importance of equipping young people with skills for employment, decent work, and entrepreneurship



### **CAREER COUNSELLING CAMP**

100 + youth participated in counselling session, discussion on their future aspirations and way forward for coping the same.

### **BLOOD DONATION CAMP**

32 unit of blood was donated on the occasion. CSR NGO partners and people from nearby community volunteered for this noble cause.

### **POSTER MAKING COMPETITION**

To promote creativity aspect amongst trainees, competition was organised and basis their presentation skills, groups were awarded.

### **POST OFFICE ACCOUNT OPENING CAMP**

82 trainees got their accounts open in the post office, covering many other financial benefits and government schemes.

## **SAMADHAN: Agriculture and Livestock Intervention Highlights**

### **INNOVATION**

#### **Extended Safety towards community**

Reflective tapes to protect stray animals in nearby operational villages of RDC. More than 250 stray animals covered



Exploring horizons in the field of Agriculture through High tech cultivation of Chickpea

Benefitted a total of 20 farmers with a total production of 4720 kgs, generating an income of more than 5 lacs



**High tech cultivation of chillies and tomatoes and Bitter Guard at Malikheda and Sindesar Khurd**

Total produce of 550 kgs, benefitted Sh. Mohanlal from village Mataji Kheda. Selling price of tomatoes at an average rate of 22 rs/kg.



**Agriculture Input Shop: Rajpura Dariba Agro Producers**

## SAMADHAN PROJECT: AGRICULTURAL AND LIVESTOCK INTERVENTION PROJECT

### Inauguration of Agriculture input shop and Ribbon cutting ceremony at Bedakheda, Malikheda

EVENT CHIEF GUESTS: Vice Chancellor MPUAT Dr Narendra Singh Rathore, Jila Parishad Sh. Utsah Choudhary, BDO Railmagra Sh Bhuneshwar Singh Head CSR HZL Ms Anupam Nidhi, Fredeban Railmagra Aditya Pratap Singh Chauhan, Head RD Mines Sh. Pushpendra Dhaibhai, Head CSR RDC Sh Abhay Gautam and CSR Team RDC Sarpanch Rajputa Sh Hir Lal Gadi.

Approximately 110 farmers were a part of the inauguration ceremony with participation observed from 28 female farmers as well.

Vice Chancellor MPUAT expressed how this Agriculture input shop as an initiative will ensure a holistic growth of Farmers and ensure sustainability of the same.



CONTINUE



A total of 37 FIG meetings, 5 new FIG formations and 12 awareness programs on widespread lumpy skin disease done covering 380+ families from operational villages of RDC; Livestock – 53 Artificial Insemination (AI) + 103 Sorted Semen AI and 3 Goat AI done



### Lumpy skin disease initiatives :

Awareness sessions, Fumigation phase 1 and ongoing phase 2 medical kits distribution through government officials SDM and livestock department

Sr. No.	Activity	No. Of Village	No. Of family	Sr. No.	Activity	No. Of Village
1	Lumpy skin viral disease awareness Program	32	4839	1	Fumigation : All 32 operational villages of RDC covered	32
2	LSD kit Distribution	10	2000		Fumigation phase 2 (ongoing); 19 operational villages of RDC covered	19



### WORLD HEALTH DAY

Observed in nearby 4 operational villages, Malikheda, Beda Kheda, Rajpura and Sindesar Khurd. A total of 120 + beneficiaries covered. Detailed information given by the MHV's medical team on the importance of personal health and changes needed to be inculcated in one's routine to maintain a good and healthy lifestyle.



**WORLD HAEMOPHILIA DAY:** Haemophilia is a serious bleeding disorder. On this day awareness sessions were observed in 3 villages Chothpura, Kabra and Makhanpuriya covering around 150 beneficiaries to educate people about bleeding disorders.



**WORLD MALARIA DAY:** Observed at 5 villages, Bamaniyan Kalan, Sindesar Kalan, Malikheda, Beda Kheda and Sarvariya Khedi with more than 200 beneficiaries to raise awareness about this life-threatening disease caused due to the bite of the female Anopheles mosquito



## SAKHI: WOMEN EMPOWERMENT PROJECT

**Gender training:** Sensitization among Samuh Sakhi's on equal rights and opportunities to people, irrespective of their gender. Women were taught about their rights and motivated to voice their opinions whenever they wish to. Participation observed from more than 100 Samuh Sakhis

**Support to Mega Health Camp – Tehsil Level covering more than 500 beneficiaries**



Various stalls of check-ups, telemedicine referrals, Ayurveda, HIV AIDS and Silicosis (severe lung infection) including blood donation drive

SAKHI team and Zinc Kaushal Kendra team participated and performed nukkad natak on health



**Microenterprise:** Establishing microenterprises, sharpening their skills to transform them into entrepreneurs & enhance their economic capability in addition to their holistic development.



Breastfeeding week campaign - a week-long celebration to protect, promote and support breastfeeding and to help institutionalize breastfeeding within our rural lactating and pregnant mothers.



13. Pohbaa tasks identified and trained - sensitized about the importance of a balanced and nutritious diet



National flag stalls by Sakhi Women at Dariba and Inauguration Sakhi Seva Kendra

## **COMMUNITY ASSET CREATION**

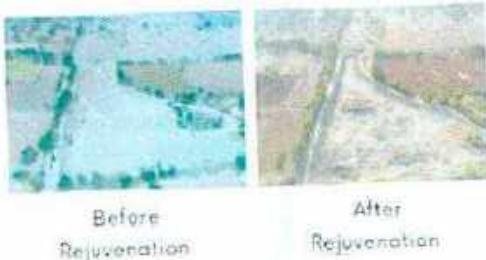
**INNOVATION: Shivpura Model Community centre and Classroom construction highlighting Vedanta Logo colour coding.**



**Inauguration of Kotdi Kesarpura Bitumen Road at Rajpura Dariba Complex** To start the construction of Kotdi's road construction on an auspicious note, a Bheomi Pujan was organised at Gram Panchayat Kotdi in presence of Pradhan Railmagra, Sh. Aditya Pratap Chauhan, Ward Members, PRI members, Head CSR RDC, and other important village level stakeholders. This will benefit more than 3500 community members.



## WATER AUGMENTATION PROJECT AT RDC



HLL's efforts to address the issue of Water paucity came 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

## ANJANA WATER AUGMENTATION PROJECT



Before pond deepening

Pre-monsoon picture

Post-monsoon picture

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

## ENVIRONMENT AND SAFETY



250+ Solar Lights installation : Extending safety and availability of proper illumination facilities at our operational villages

**Highlighting the Vedanta Colour coding : Classroom construction and toilet construction completed at core village Rajpura Kheda school**



## SHIKSHA SAMBAL PROJECT: EDUCATION

Summer camp at Mahenduriya and Rajpura senior secondary government school



Yoga classes and Prayer sessions at Summer Camps for starting the day on a healthy and positive note



Yoga Session and Demonstration of various animals through fallen leaves



#### Summer camp closing ceremony

- Chief Guests: Shri Anil G. Sharma (CBEO, Railmagra), Special Guest, Shri Kailash G. Jain (ACBEO, Railmagra), Rajendra G. Agarwal (Head – DSC Lead Plant), RDC CSR Head Shri Abhay G. Gautam Smt. At the conclusion, 185 students of both the camps were present. The students of the volunteers and competitions were honoured with prizes by the guests

- Learning camps were organised in two schools Rajpura and Mahenduriya Senior secondary government schools with 102 registered students from Dariba, Mahenduriya, Dhaneria, Gawardi and 109 registered students from Sindesar Kalan, Kabra, Kotdi, Rajpura.
- In the summer camp, three groups were formed at both senior secondary government schools and the work was done through group teaching. Amongst other activities, students were given subject-based exercises, games, puzzles, experiments, charts, posters, and competitions.



**Employee Volunteerism in Learning Camps:** 20 Active Employees from RDC participated in CSR Volunteering program for Shiksha Sambal Summer Camp and volunteered for both academic and non-academic subjects like Science, English, Maths, Economics, Music, Self-defense, Theater and Dramatics, basic finances and investments, Health and nutrition etc.

### RDC WORLD ENVIRONMENT DAY:

Zinc Kaushal Kendra

#### Nukkad natak



#### SHIKSHA SAMBAL

Rally by students at Rajpura and Mahenduriya summer camp



Green village model concept

## SAMADHAN RDC



**SAKHI PLANTATION ACTIVITY:** At Shivpura and Amarpura village with PRI member, awareness sessions on an environment friendly community taken with samuh sakhis



**NATHDWARA COLLEGE STUDENTS' EXPOSURE VISIT AT DSC:** A total of 28 students from BSc and Msc background showed their interest in visiting DSC and were inducted by CSR team throughout the visit. They were given an overview of various CSR projects done at RDC along with an overview of RDC and its operational background.



#### **ESG ADVISORS Visit to RDC**

Senior ESG Advisors Mr Peter Andrew Sinclair and Mr Ascervatham Anton MehanaRajah along with ESG team Vedanta visit RDC's CSR initiatives. A brief meeting done on social performance and CSR overview and they visited SAMADHAN FPO office, Zinc Kaushal Center along with sapling plantation.



## **KHUSHI ANGANWADI PROJECT**

### **MTC referrals: Malnourished treatment center**

- In phase I of Khushi project health screening done in 11 blocks of Agra, Bulandshahar and Raebareli
- 25000+ children screened through MTC (via Upper Arm Circumference) and around 370 children found to be SAM. Around 80 SAM children are referred to the MTC.
- Extended support received from Childline and MTC team for those patients having no access to proper transportation



### **Hari-Bharti Anganwadi campaign**

- On World Environment Day Hari-Anganwadi campaign started by HBL-ESI with 4000 trees planted across Anganwadi centers in line with extending nutritional support to lactating mothers and malnourished children who are a part of AAC
- Fruit trees planted at 233 AWC till date
- Impact: At the end of this campaign Khushi team will ensure every AWC has fruit trees for better health of children to sustain the Hari-Bharti Anganwadi campaign





**REGISTERED AD**

HCL/SKM/ENV/2022/EC Comp/ 6/9

May 31<sup>st</sup>, 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.) – 302002.

**Sub:** Half yearly EC compliance report of Sindesar Khurd Mine for the period of October 2021 to March 2022.

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

Sir,

Please find enclosed herewith half yearly compliance report of conditions of Environmental Clearance for the period of October 2021 to March 2022.

Also submitting the above report on Parivesh Portal and in MS word format on [ecminc.mca.gov.in](http://ecminc.mca.gov.in) for kind perusal.

Thanking you,

Yours faithfully,

Anshul Kumar Khandelwal  
 Unit Head & Authorized Signatory  
 Sindesar Khurd Mines, HCL  
(Hindustan Zinc Limited)  
 Jhalana (Raj.)

Copy to:

1. In-charge, (Zonal Office),  
 Central Pollution Control Board,  
 Parivesh Bhawan, Paryavaran Parisar,  
 E-5, Arera Colony, Bhopal (MP)-462016.
2. The Director,  
 Ministry of Environment, Forests & Climate  
 Change, Govt.  
 Regional Office (Central Region),  
 5th Floor, Kendriya Bhawan,  
 Sector-II, 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,  
 Kalawati, Rajnagar,  
 Rajsamand (Raj.)-313324.

**Hindustan Zinc Limited**

Sindesar Khurd Mine, P.O. Bhamla, Tel: Kathmagar (2021); Rajsamand (Rajasthan) - 313211  
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